

SLOVAK FP7 SUCCESS STORIES UNDER ONE COVER

Slovakia in the Seventh Framework Programme (FP7) —
Project Overview & Results



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INTRODUCTION



Ladies and gentlemen,

in your hands, you are holding the first version of a publication, which was created by the Slovak Organization for Research and Development Activities, the host institution for the NCPs in the 7th Framework Programme (FP7) in the years 2010 – 2014.

On the one hand, this publication complements the forthcoming analysis of Slovak participation in FP7, and on the other hand, it fulfills the requirement of the Slovak government to increase the involvement of Slovak institutions in the EU Programme for Research and Innovation - Horizon 2020. Our main goal here is to provide both general as well as more detailed information about the involvement of the Slovak participants in FP7. This was done in two ways. First, by summarizing data available on eCorda, Cordis, project websites or EC official websites, and second, which we consider much more interesting, by inviting the Slovak participants themselves to contribute more detailed information about the tasks they had to fulfill and the roles they played in their respective projects. One may therefore get a better idea of what their expertise consists in.

I would like to acknowledge my colleagues Monika Petraninová, Lenka Smataníková and Peter Štofko for the effort they made in collecting the information used in this publication. Our very special thanks also goes to all Slovak organizations which provided descriptions of their contributions in the FP7 projects and made this publication even more valuable. In recent years, the Slovak Republic and Slovak institutions have invested millions of euros into the development of advanced research infrastructures with the goal to become a relevant partner in international research cooperation. Therefore, we believe that this document helps you find the most suitable Slovak partners for your RTD&I activities in the forthcoming calls under Horizon 2020 programme.

Peter Beňo
FP7 Slovak National NCP coordinator

1. Specific programme
COOPERATION

1.1 Health



ANCIEN

Project ID: 223483

Project Title: Assessing Needs of Care In European Nations

Project website: <http://www.ancien-longtermcare.eu>

Project Start Date: 2009-01-01

Project End Date: 2012-10-31

Project Total Cost: 3 516 921.2

Project EC Financial Contribution: EUR 2 712 777

Slovak participant Name: EKONOMICKY USTAV SLOVENSKEJ AKADEMIE VIED,
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KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN – KNAW -
NETHERLANDS

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CONSIGLIO NAZIONALE DELLE RICERCHE - ITALY

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KAROLINSKA INSTITUTET - SWEDEN

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SIHTASUTUS POLIITIKAUURINGUTE KESKUS PRAXIS – ESTONIA

TARKI TARSADALOMKUTATASI INTEZET ZRT - HUNGARY

MINISTERIE VAN ECONOMISCHE ZAKEN, LANDBOUW EN INNOVATIE - NETHERLANDS

Project Description: The large post-war baby boom is now turning into a grandparent boom, putting a triple stress on long-term care (LTC) provisions: increased numbers of the elderly, increased survival of these elderly and increased survival of frail, disabled elderly through improved care and health care. Increasing body weight, through increasing disability and care dependence among the obese, further add to numbers of disabled elderly.

The supply of labour is affected by the ageing of the EU population. Consequently, increasing emphasis has been put on the future development of long-term care needs, supply and use, and the functioning of LTC systems.

Project Objectives: The objectives of ANCIEN (Assessing Needs for Care In European Nations) are to review the LTC systems in EU member states, to assess the actual and numbers of elderly care-dependent people in selected countries and to develop a methodology for comprehensive analysis of actual and future LTC needs and provisions across European countries, including the potential role of technology and policies on maintaining and improving quality. Performance indicators will be identified and relative performances of the different types of LTC systems assessed. Databases of EU countries are constructed, containing available data on LTC needs of the elderly.

Profile of Slovak Participant/ -s: Institute of Economic Research, Slovak Academy of Sciences. The project was led by Marek Radvansky and Viliam Pálenik, senior researchers at the Department of Economic Modelling and Analyses.

SK Participant Project Cost: EUR 39 947.2

SK Participant EC Financial Contribution: EUR 29 959

Project Outcomes planned/real: The project proceeds in consecutive steps of collecting and analysing information and projecting future scenarios on long term care needs, use, quality assurance and system performance. State of the art demographic, epidemiologic and econometric modelling will be used to interpret and project needs, supply and use of long term care over future time periods for different long term care systems.

Slovak Participant's Role in Project: Overview and assessment of Slovak Health and Long-term care system. Analysis of existing data sources on Slovak LTC system and providing support to project partners.

ANTIDOTE

Project ID: 602272

Project Title: Anti-tick Vaccines to Prevent Tick-borne Diseases in Europe

Project website: <http://www.antidote-fp7.org/>

Project Start Date: 2013-12-01

Project End Date: 2018-11-30

Project Total Cost: EUR 3 823 805

Project EC Financial Contribution: EUR 2 999 785

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ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOCIENCIAS - SPAIN

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RIJKSINSTITUUT VOOR VOLKSGEZONDHEIDEN MILIEU* NATIONAL INSTITUTE FOR
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VIROLOGICKY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF VIROLOGY OF
SLOVAK ACADEMY OF SCIENCES (SAS)- SLOVAKIA

Project Description: Background Ixodes ricinus transmits bacterial, protozoal and viral pathogens that cause Lyme borreliosis, babesiosis and tick-borne encephalitis respectively and exceedingly affect Central and Eastern Europe (CEE). During feeding, ticks introduce salivary proteins in the skin that interfere with host defense mechanisms. However, in animals repeated tick infestations as well as vaccination against selected tick proteins can lead to decreased pathogen transmission by inhibiting tick feeding - known as 'tick immunity' - or by neutralizing tick proteins that facilitate the transmission of tick-borne pathogens (TBPs). Also humans with hypersensitivity to tick-bites have a lower risk of contracting tick-borne diseases (TBDs). Therefore, anti-tick vaccines encompass an innovative strategy to prevent TBDs in humans, or animals and wildlife to indirectly reduce the risk of contracting TBDs for humans.

Project Objectives: Overall objective to identify and characterize tick proteins involved in 'tick immunity' and TBP transmission and to use this knowledge to develop anti-tick vaccines to prevent multiple human TBDs.

Methods Using state of the art proteomic and transcriptomic approaches we will identify and characterize novel tick salivary gland proteins, which will be subsequently assessed as anti-tick vaccines to protect against LB, babesiosis and TBE in animal models. In addition, through an integrated and multidisciplinary approach involving CEE public health institutes, health organizations and industrial companies we will examine how to develop anti-tick vaccines and implement these in public health systems.

Impact ANTIDotE will deliver 1) essential knowledge on the biological mechanisms involved in the pathogenesis of TBDs, 2) proof of concept of an anti-tick vaccine protecting against multiple human TBPs and 3) plans for exploitation and implementation of anti-tick vaccines, significantly contributing to downscaling the severe medical and economic burden that TBDs have on societies.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 337 600

SK Participant EC Financial Contribution: EUR 255 920

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

CATAFLU.OR

Project ID: 201431

Project Title: OrganoCATAlytic approaches towards easily synthesized, economical, and high yielding oseltamivir derivatives

Project website: www.catafluor.eu

Project Start Date: 2008-04-01

Project End Date: 2011-09-30

Project Total Cost: EUR 2 965 217.05

Project EC Financial Contribution: EUR 2 300 000

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UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-SLOVAKIA

SYNKOLA, S.R.O.- SLOVAKIA

SUN YAT-SEN UNIVERSITY – CHINA

Project Description: Despite widespread immunization, influenza continues to kill thousands of people, and costs the US, Europe and Asia enormous amounts of money in terms of healthcare expenses and productivity losses. While immunization remains an important approach to prevent influenza, small-molecule antiviral agents represent a novel opportunity for an effective prevention and therapy of the flu. Inhibitors of neuraminidase (NA), an essential enzyme for viral replication in all three classes of influenza viruses, have been recently found. Two of these inhibitors have reached the market, namely zanamivir and oseltamivir phosphate. Recent health concerns related to the avian flu have increased the demand for stockpiles of neuraminidase inhibitors, both as a reasonable frontline therapy against a possible flu pandemic and as a preventive agent. However, natural sources of Shikimic acid are scarce, and the increasing demand has put further pressure to develop new routes that do not involve complex natural products. In addition, there is a need to simplify the synthetic processes and make them less expensive in order to find new drug candidates, cut the drug costs and improve their availability as well as efficiency. New chemical synthesis are necessary. The project proposes a new domino reaction based on an organocatalytic approach to the synthesis of new Tamiflu derivatives. The chemistry involved in this project is easy to perform, and can be well adapted to the industrial context. Moreover, new chemical structures will be prepared and evaluated as a potential drug against virulent and mutated flu viruses.

Project Objectives: The overall scientific and technical objective of the CATAFLU.OR project is to achieve innovative, simple and straightforward synthetic routes towards enhancing the availability and supply of neuraminidase inhibitors. The CATAFLU.OR project addresses this target through the preparation of highly challenging neuraminidase inhibitors. Five main tasks characterize the work plan of the CATAFLU.OR project:

1. Synthesis of modified catalysts for the organocatalytic domino reaction. Scale-up of the reaction. Testing of the new catalysts in the established domino reactions aimed at producing new cyclohexene derivatives. The manipulation of the derivatives will be used for a practical and rapid access to newly designed neuraminidase drug candidates.
2. Use of the catalysts in the design of new organocatalytic domino reactions. The synthesis of cyclic compounds via domino reactions.
3. Preparation of new neuraminidase inhibitors through the use of organocatalytic domino reactions.
4. Testing of the new neuraminidase inhibitors on cell lines, animals and viruses.
5. Tests in silico, in vitro, and in vivo of the newly prepared inhibitor against influenza viruses.

SLOVAK PARTICIPANT 1

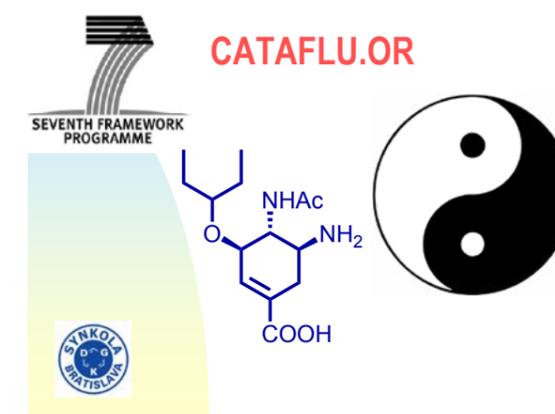
Profile of Slovak Participant/ -s: SYNKOLA was established in 1990 as contract research laboratory, and it continues to operate in custom synthesis and fine chemical intermediates, and has been active since 1st January 1991. Staff consists of 14 PhD. chemists with long-term international experience in the area of biologically active substances and chemical specialties. They are authors of more than 200 scientific publications and more than 150 patents, of which many have been put into practice. All members have a PhD. degree and hold postdoctoral fellowships at prominent foreign universities and institutes – especially in Switzerland (ETH Zurich), Canada, USA and Sweden. SYNKOLA employs specialists who are also experienced in projecting and introducing new technologies into technical practice. SYNKOLA is located within the Comenius University campus and takes advantage of the following analytic equipment: GC-MS, LC-MS, 300MHz NMR, FT-IR. Laboratories are equipped with Parr autoclave and all other necessary equipment for every kind of organic synthesis. Furthermore, equipment with microwave radiation is available. SYNKOLA cooperates with renowned life science companies in Europe in the field of phytopharmaceuticals and medicinal chemistry. Its staff has vast experience in complex synthetic procedures in heterocyclic chemistry and also in the field of synthesis of chiral active substances.

SK Participant 1 Project Cost: EUR 284 271

SK Participant 1 EC Financial Contribution: EUR 215 744.75

Project Outcomes planned/real: The new azido- and thiol-free synthetic method for preparation of oseltamivir and derivatives were developed in three synthetic steps from raw materials. First, Michael addition of 3-pentyloxyacetaldehyde to 2-nitroethenylacetamide with organocatalyst is performed. The best results show 88% yield, diastereoselectivity up to 5:1 in favor of desired stereoisomer and enantioselectivity up to 97%. The second step is one-pot cyclization with the best results of 65 % yielded from two diastereoisomers. Using epimerization of an undesirable diastereoisomer to a desired one at room temperature, it is possible to achieve higher selectivity. These results are new and were summarized in Slovak Patent Application No.5013/2010. Patent application out of Slovakia is now running. The third step is the reduction of nitro group in cyclohexane ring with a yield of above 60%. Synthetic methods for the preparation of starting raw materials has also been developed.

Slovak Participant's Role in Project: As SME, the participant in consortium should develop a new method of synthesizing oseltamivir. The process starts with easily available and relatively cheap raw achiral materials. The process does not require the use of dangerous chemicals such as azide or environmentally undesirable chemicals such as thiols and minimizes the use of heavy metal catalysts. The synthetic procedure of raw material synthesis was developed in ten-gram scale. The three-step process was scaled up from milligram to gram scale. Excellent results were achieved by chiral Michael addition of 3-pentyloxyacetaldehyde to new nitro alkenes using chiral organocatalyst with high enantioselectivity of above 98%. The second step with domino (multicomponent) reaction and final cyclization and epimerization of undesired epimer was developed with satisfactory yield. Microwave irradiation route was used for the domino reaction step. Reduction of nitrocyclohexene derivatives to final amino one showed very high purity of the final active compound. The developed method gives rise assumption to industrial use. New alkenes and two-process steps were covered by patent applications in Slovakia and in Europe.



SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 298 278.4

SK Participant EC Financial Contribution: EUR 226 332.8

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

CENTER-TBI

Project ID: 602150
Project Title: Collaborative European NeuroTrauma Effectiveness Research in TBI
Project website: <https://www.center-tbi.eu/project>
Project Start Date: 2013-10-01
Project End Date: 2020-03-31
Project Total Cost: EUR 39 560 968.86
Project EC Financial Contribution: EUR 29 998 903
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INTERNATIONALE GESELLSCHAFT ZUR ERFORSCHUNG VON HIRNTRAUMATA - AUSTRIA
CHARITE - UNIVERSITAETS MEDIZIN BERLIN - GERMANY
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PRIVATE UNIVERSITAET WITTEN/HERDECKE GGMBH - GERMANY
UNIVERSITY OF CINCINNATI - UNITED STATES
UNIVERSITY OF FLORIDA - UNITED STATES

Project Description: Traumatic Brain Injury (TBI) is a major cause of death and disability, leading to great personal suffering of the victim and relatives, as well as huge direct and indirect costs to society. Strong ethical, medical, social and health economics reasons therefore exist for improving treatment. The CENTER-TBI project will collect a prospective, contemporary, highly granular, observational dataset of 5400 patients, which will be used for better characterization of TBI and for Comparative Effectiveness Research (CER). The generalisability of our results will be reinforced by a contemporaneous registry level data collection in 15 - 25 000 patients. Our conceptual approach is to exploit the heterogeneity in biology, care, and outcome of TBI, to discover novel pathophysiology, refine disease characterization, and identify effective clinical interventions. The use of emerging technologies (biomarkers, genomics and advanced MR imaging) in large numbers of patients, across the entire course of TBI (from injury to late outcome) and across all severities of injury (mild to severe) is key. Improved characterization with these tools will aid Precision Medicine, a concept recently advocated by the US National Academy of Science, facilitating targeted management for individual patients. Our consortium includes leading experts and will bring outstanding biostatistical and neuroinformatics expertise to the project. Collaborations with external partners, other FP7 consortia, and international links within InTBIR, will greatly augment scientific resources and broaden the global scope of our research. We anticipate that the project could revolutionize our view of TBI, leading to more effective and efficient therapy, thus improving outcome and reducing costs. These outcomes reflect the goals of CER to assist consumers, clinicians, health care purchasers, and policy makers to make informed decisions, and will improve healthcare at both individual and population levels.

Project Objectives: CENTER-TBI aims to advance the care for patients with traumatic brain injury (TBI), one of the most attention-lacking fields of medicine. Our research aims to:

1. Better characterize TBI as a disease, and describe it in a European context.
2. Identify the most effective clinical interventions for managing TBI.

Specific aims to:

- collect high quality clinical and epidemiological data with repositories for neuro-imaging, DNA, and serum from patients with TBI.
- refine and improve outcome assessment and develop health utility indices for TBI.
- develop multidimensional approaches to characterisation and prediction of TBI.
- define patient profiles which predict efficacy of specific interventions ("Precision Medicine").
- develop performance indicators for quality assurance and quality improvement in TBI care.
- validate the common data elements (CDEs) for broader use in international settings, and to develop a user-friendly web based data entry instrument and case report form builder.
- develop an open source database compatible with FITBIR.
- intensify networking activities and international collaborations in TBI.
- disseminate study results and management recommendations for TBI to health care professionals, policy makers and consumers, aiming to improve health care for TBI at individual and population levels.
- develop a "knowledge commons" for TBI, integrating CENTER-TBI outputs into systematic reviews.

Profile of Slovak Participant/ -s: Trnava University professes he of the Great Charter of European Universities protecting complete independence of universities from political and economic power and their freedom to perform research and education. Trnava University advocates Christian principles, seeks to protect moral and spiritual values, provide education in the spirit of ecumenism, cooperate with universities, pedagogical and scientific institutes in the Slovak Republic and abroad. The university has 5 faculties: Faculty of Arts, Faculty of Education, Faculty of Health Care and Social Work, Faculty of Theology and Faculty of Law.

SK Participant Project Cost: EUR 532 608

SK Participant EC Financial Contribution: EUR 399 955

Project Outcomes planned/real:

- To collect high quality clinical and epidemiological data with repositories for neuro-imaging, DNA, and serum from patients with traumatic brain injury (TBI).
- To refine and improve outcome assessment and develop health utility indices for TBI.
- To develop multidimensional approaches to characterisation and prediction of TBI.
- To define patient profiles which predict efficacy of specific interventions ("Precision Medicine").
- To develop performance indicators for quality assurance and quality improvement in TBI care.
- To validate the common data elements (CDEs) for broader use in international settings, and to develop a user-friendly web based data entry instrument and case report form builder.
- To develop an open source database compatible with FITBIR. To intensify networking activities and international collaborations in TBI.
- To disseminate study results and management recommendations for TBI to health care professionals, policy makers and consumers, aiming to improve health care for TBI at individual and population levels.
- To develop a "knowledge commons" for TBI, integrating CENTER-TBI outputs into systematic reviews.

Slovak Participant's Role in Project: project partner, lead of Work Package 7 (Epidemiology of TBI in Europe), participation in Work Package 14

DEVELOPAKURE

Project ID: 304985

Project Title: Clinical Development of Nitisinone for Alkaptonuria

Project website: <http://www.developakure.eu/>

Project Start Date: 2012-11-01

Project End Date: 2018-04-30

Project Total Cost: EUR 10 996 020.31

Project EC Financial Contribution: EUR 5 999 999

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Project Description: DevelopAKUre is a proposal to fund the clinical development of an orphan designated drug, nitisinone, for the treatment of a rare Mendelian disease, Alkaptonuria (AKU). AKU is a genetic deficiency of homogentisic acid dioxygenase, causing high levels of homogentisic acid (HGA). Oxidation of HGA to pigment polymer, termed ochronosis, alters nective tissues. This leads to multisystemic damage dominated by premature severe arthritis. Currently, multiple arthroplasty is inevitable, since AKU is incurable and there is no effective palliative therapy. No data exists regarding the presence or absence of ochronosis before the age of 30. Hence, it is unknown whether treatment is necessary before then. A potential HGA-lowering therapy with nitisinone is available, but lacks outcome data. Thanks to our existing successful fundamental and clinical research (cell models, animal models, natural history studies), we are now ready for the final stage of clinical development of nitisinone for AKU in order to overcome these obstacles. This will involve a dose finding study, a phase 3 clinical trial to prove efficacy, and a cross-sectional study in children and young adults to determine when to start treatment.

Project Objectives: The results of DevelopAKUre will allow us to make the case to the European Medicines Agency for marketing authorisation of nitisinone for AKU with a view to the goal of the International Rare Diseases Research Consortium of 200 new therapies by 2020. Our consortium has worked together for five years already. It includes Liverpool University's AKU Research Team as the lead applicant, the AKU Society UK patient group for dissemination and patient recruitment, three SMEs (Denmark, Netherlands) for biomarker analysis and clinical trial coordination, an industry partner (Sweden) supplying the drug and regulatory support, three universities (UK, Italy, Slovakia) for the analysis of data, and three clinical trial centres (UK, France, Slovakia) to reach required numbers.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: National Institute of Rheumatic Diseases focuses on specialized inpatient treatment for all major forms of rheumatic diseases, including their long-term monitoring, outpatient care for rheumatic diseases from all over Slovakia; it also offers consulting activities for specialized workplaces and all catchment rheumatologists of Slovakia (both state and private rheumatologists). The institute conducts rheumatology research within state and international projects, develops and introduces new therapies into practice, conducts postgraduate and undergraduate teaching of rheumatology at universities as well as education of researchers.

SK Participant Project Cost: EUR 1 063 626

SK Participant EC Financial Contribution: EUR 515 307.5

Project Outcomes planned/real: National Institute of Rheumatic Diseases has completed the clinical study SONIA 1, which allowed to determine the dose of nitisinone for the study SONIA 2. In the ongoing recruitment, new patients are invited into the clinical study SONIA 2.

Slovak Participant's Role in Project: National Institute of Rheumatic Diseases deals with clinical testing of the medical product nitisinone.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Participant 11 of DevelopAKUre, the Institute of Molecular Physiology and Genetics (IMPG) of the Slovak Academy of Sciences, was established in 1990 and is composed of 8 laboratories. Laboratory of Genetics of IMPG SAS has a long-term tradition in studies of the human genome on DNA level in collaboration with the Department of Molecular Biology of the Comenius University Bratislava, with which it shares laboratories. Major attention is devoted to those regions, which are involved in serious pathologies, frequent in the population of Slovakia. Until now, the Laboratory performed molecular analysis in Slovak patients affected with monogenic disorders such as cystic fibrosis, Duchenne/Becker muscular dystrophy, phenylketonuria, alkaptonuria, haemophilia A, spinal muscular atrophy type I-III, Huntington chorea, congenital glaucoma, neurofibromatosis type 1 etc. On the basis of these results, DNA-diagnostics has been introduced into everyday health service in Slovakia for these disorders. The Laboratory has at its disposal up-to-date technology for application in molecular genetics (isolation of DNA, PCR and its modifications (SSCP, ARMS, ACRS), sequencing and fragment analysis by means of automatic sequencer, Real-Time PCR, DHPLC, etc.), cell culture facilities, and has the equipment (cetrifuges, termal cyclers, WAVE® System, LightScanner, genetic analyser ABI PRISM® 3100-Avant etc.) necessary for the elaboration of the project. AKU is one of the main interests of the Laboratory. In addition to that, Dr. Andrea Zatková created and is curating a HGD mutation database (<http://hgddatabase.cvtisr.sk/>) that summarizes all AKU-causing mutations and polymorphisms identified thus far and published worldwide.

SK Participant Project Cost: EUR 78 500

DevelopAKUre

SK Participant EC Financial Contribution: EUR 58 875

Project Outcomes planned/real: DevelopAKUre is a proposal to fund the clinical development of an orphan designated drug, nitisinone, for the treatment of a rare Mendelian disease, Alkaptonuria (AKU). AKU is a genetic deficiency of homogentisic acid dioxygenase, causing high levels of homogentisic acid (HGA). Oxidation of HGA to pigment polymer, termed ochronosis, alters nective tissues. This leads to multisystemic damage dominated by premature severe arthritis. Currently, multiple arthroplasty is inevitable, since AKU is incurable and there is no effective palliative therapy. No data exists regarding the presence or absence of ochronosis before the age of 30. Hence, it is unknown whether treatment is necessary before then. A potential HGA-lowering therapy with nitisinone is available, but lacks outcome data. Therefore, DevelopAKUre consists of a dose finding study (SONIA1), a phase 3 clinical trial to prove efficacy (SONIA2), and a cross-sectional study in children and young adults to determine when to start treatment (SOFIA). The results of DevelopAKUre will allow us to make the case to the European Medicines Agency for marketing authorisation of nitisinone for AKU. Our consortium has worked together for five years already. It includes Liverpool University AKU Research Team as the lead applicant, the AKU Society UK patient group for dissemination and patient recruitment, three SMEs (Denmark, Netherlands) for biomarker analysis and clinical trial coordination, an industry partner (Sweden) supplying the drug and regulatory support, three universities and academic institutions (UK, Italy, Slovakia) for the analysis of data, and three clinical trial centres (UK, France, Slovakia) to reach required numbers.

Slovak Participant's Role in Project: Laboratory of Genetics of IMPG SAS is responsible for WP6 – Chemical measurements, specifically for Task 6.2 - Genetic mutational analysis. DNA samples of all AKU patients involved in all 3 clinical studies of DevelopAKUre will be collected and analysed for the mutations in the homogentisate 1,2-dioxygenase gene (HGD). Mutation identification confirms AKU diagnosis. Possible associations/differences of tested biochemical markers in the patients with different HGD mutations will be performed. At the end of the study genotype/phenotype correlations will be assessed, as well as possible impact of the mutations on treatment response, in particular in SONIA2 patients.

EDENEXT

Project ID: 261504
Project Title: Biology and control of vector-borne infections in Europe
Project website: <http://www.edenext.eu/>
Project Start Date: 2011-01-01
Project End Date: 2014-12-31
Project Total Cost: EUR 16 306 823.74
Project EC Financial Contribution: EUR 11 981 710
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- SMITTSKYDDSIINSTITUTET - SWEDEN
- UNIVERZITA KARLOVA V PRAZE - CZECH REPUBLIC
- ISTITUTO SUPERIORE DI SANITA - ITALY
- INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT - FRANCE
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- INSTITUTO DE HIGIENE E MEDICINA TROPICAL - PORTUGAL
- INSTITUTO DE SALUD CARLOS III - SPAIN
- HACETTEPE UNIVERSITESI - TURKEY
- EGE UNIVERSITESI - TURKEY
- NATURAL ENVIRONMENT RESEARCH COUNCIL - UNITED KINGDOM
- THE INSTITUTE FOR ANIMAL HEALTH - UNITED KINGDOM
- INSTITUT SENEGALAIS DE RECHERCHES AGRICOLES - SENEGAL
- FUNDACIO CENTRE DE RECERCA EN SANITAT ANIMAL CRESA - SPAIN
- DANMARKS TEKNISKE UNIVERSITET - DENMARK
- ENTENTE INTERDEPARTEMENTALE POUR LA DEMOUSTICATION DU LITTORAL MEDITERRANÉEN - FRANCE
- UNIVERSITAT DE LES ILLES BALEARS - SPAIN
- INSTITUT PASTEUR - FRANCE
- VETERINAERMEDIZINISCHE UNIVERSITAET WIEN - AUSTRIA
- USTAV BIOLOGIE OBRATLOVCU AV CR, V.V.I. - CZECH REPUBLIC
- SZENT ISTVAN EGYETEM - HUNGARY
- INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU MICROBIOLOGIE SI IMUNOLOGIE CANTACUZINO - ROMANIA
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- AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS - SPAIN
- AGENCE NATIONALE DE SECURITE SANITAIRE DE L'ALIMENTATION, DE L'ENVIRONNEMENT ET DU TRAVAIL - FRANCE
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- ROBERT KOCH-INSTITUT - GERMANY
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- EUROPEAN AGRO ENVIRONMENTAL HEALTHASSOCIATES GEIE - BELGIUM
- SINE-INSTITUT GEM GMBH - GERMANY
- UNIVERSITE D'AIX MARSEILLE - FRANCE

Project Description: EDENext, Biology and control of vector-borne infections in Europe, is a research project bringing together 46 international partners dedicated to investigating the biological, ecological and epidemiological components of vector-borne disease introduction, emergence and spread, and the creation of new tools to control them

Project Objectives: Knowledge on vectors generated under this project is expected to deliver a better understanding of the biology of vectors relevant to human and veterinary diseases. This new knowledge should help 1) to predict the emergence and spread of new vector-borne diseases (VBD), and 2) to assess the efficacy of different interventions and develop new interventions to interrupt or limit the spread of VBDs with the goal of protecting European citizens from these threats. Major impact is also expected to be noted on strengthening European research capacity in this field.

Profile of Slovak Participant/ -s: The Institute of Zoology (IZ) of the Slovak Academy of Sciences (SAS) covers a broad spectrum of research fields, such as taxonomy, ecology, geography, animal behaviour, physiology, parasitology and epidemiology of selected zoonotic diseases. Particular emphasis is placed on translation of research results into nature conservation, agriculture, forestry and medicine. IZ comprises four sections, out of which the Section of Medical Zoology is focused on ecology and epidemiology of tick-borne and rodent-borne diseases, genetic variability and phylogenetic relationships of tick-borne pathogens and physiological and molecular interactions on the tick - pathogen - host interface. The research is conducted in collaboration with related departments in

the Institute of Virology and Parasitological Institute of SAS. Pharmacologically active compounds in tick salivary glands have been identified and their role in modulation of host haemostasis and immunity and in pathogen transmission have been investigated. Tick salivary compounds and other tick antigens have also been explored for vaccine targets against ticks and tick-borne pathogens. IZ maintains permanent tick colonies to carry out experimental infections of ticks, pathogen transmission studies and to isolate pharmacologically active compounds from tick salivary glands. Research staff of the Section of Medical Zoology participated in the FP6 project EDEN, in the FP6 Coordination Action Project ICTTD3 and in projects and networks funded by ECDC. In the frame of collaboration with NERC Centre for Ecology and Hydrology, Oxford, UK patents on anticoagulants and immunomodulators from ticks, which have been co-authored by IZ researchers, have been filed.

SK Participant Project Cost: EUR 366 667.2

SK Participant EC Financial Contribution: EUR 275 000

Project Outcomes planned/real: The knowledge on vectors generated under EDENext is expected to deliver a better understanding of the biology of vectors relevant to human and veterinary diseases. This new knowledge should help to predict the emergence and spread of new vector-borne diseases (VBD), and to assess the efficacy of existing interventions and to develop new ones to interrupt or limit the spread of VBDs with the goal of protecting European citizens from these threats. To produce results concerning VBD in Europe, a range of relevant diseases has been selected. The selection criteria used were 1) insufficient epidemiological knowledge or control measures, and 2) priority for European public health agencies (e.g. ECDC). The massive use of insecticides is increasingly unacceptable from both the environmental and societal point of view. The effectiveness of other control methods depends on the biology and ecology of the target vectors. The identification and implementation of effective control measures is further complicated by the wide distribution of wild or domestic reservoir hosts. This means that most vector or VBD control programmes should follow an integrated pest control strategy. The third strand concerns the need for relevant and accurate data on risk perception in public health agencies and in the exposed human population, as well as a clear understanding of the importance of these human population segments. Furthermore, the human or veterinary public health messages which need to be delivered have to be of a suitable content and style to reach the target populations which are at biggest risk.

Slovak Participant's Role in Project: EDENext is a research project bringing together 46 international partners from 22 countries, dedicated to investigation of the biological, ecological and epidemiological components of vector-borne disease introduction, emergence and spread, and the creation of new tools to control them. The vector groups include tick-borne diseases, rodent and insectivore-borne diseases, mosquito-borne diseases, Culicoides-borne diseases and sand fly or Phlebotome-borne diseases. The Slovak team is involved in four work packages: WP 1 Emergence and spread of Ixodes ricinus transmitted pathogens, WP 3 Intervention and control of tick-borne diseases (TBD), WP 4 Emergence and spread rodent- and insectivore-borne diseases (RBD) and WP 5 Intervention and control RBD.

Boosting knowledge on vector-borne diseases

More than 200 publications available at www.edenext.eu

The Public Health and economic importance of vector-borne infections is increasing. The mass use of insecticides is not an option for controlling vector populations and vaccines are rarely available against the diseases transmitted by these vectors, so most control programmes must follow an integrated pest control strategy, requiring a range of components. Developing the tools needed to improve prevention and intervention at the start of an epidemic, when it is still possible to take action, requires a greater understanding of the biological, ecological and epidemiological mechanisms involved.

In particular, EDENext is:

- Explaining the bio-ecological processes of the introduction, establishment and spread of human and animal vector-borne diseases
- Developing and assessing methods and tools for the prevention, surveillance and control of vectors and vector-borne diseases
- Delivering Public Health tools and strategies based on actual risk perceptions.

Putting research to work: supporting Public Health

EDENext's Public Health team is helping vector groups to maintain a focus on the Public Health implications of their work and making their research results more visible, comprehensible, and applicable for the public and policy makers.

A report on seven diseases of high Public Health interest for their emergence in Europe and reviews on Hantavirus and Crimean Congo haemorrhagic fever virus and Public Health have been produced.

The team actively monitors the project's research results for their Public Health significance and is sharing these with Public Health agencies and other relevant stakeholders through the PUBLICHEALTH newsletter. The first edition focused on rodent and insectivore-borne diseases, while subsequent editions have focused on tick-borne and mosquito-borne diseases. The team is also working closely with the modelling group to produce new models better suited to the needs of Public Health practitioners.

These models incorporate the results of risk perception studies as well as statistical data, providing best and worst case scenarios for emerging diseases.

CONTACT

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Focusing on vectors

EDENext's research is conducted through five vector-focused groups, each group examining the mechanisms by which vectors and pathogens are introduced, then emerge and spread, and an assessment of the methods available to control vector and reservoir populations. The aim is to offer appropriate and environmentally friendly control strategies.

- Ticks and the risk of transmission of new pathogens such as Anaplasma and Bartonella, and Crimean-Congo haemorrhagic fever virus.
- Mosquitoes such as Aedes albopictus and the risk of transmission of dengue and chikungunya, and Culex mosquitoes and the risk of transmission of West Nile virus.
- Sandflies and the risk of transmission of Leishmania and of viruses that cause summer encephalitis in several Mediterranean countries.
- Culicoides biting midges and the risk of transmission of viruses that cause animal diseases such as bluetongue, African horse sickness and Schmallenberg viruses.
- Rodent and insectivore-borne pathogens, such as hantaviruses, orthopox viruses and the lymphocytic choriomeningitis virus complex.

Specialist teams are providing support in the form of the geographical, environmental and climate data required and are helping to develop models of the risks of introduction, emergence or spread of vectors and pathogens.

EU-CERT-ICD

Project ID: 602299

Project Title: Comparative Effectiveness Research to Assess the Use of Primary Prophylactic Implantable Cardioverter Defibrillators in Europe

Project website: <http://www.eu-cert-icd.eu/>

Project Start Date: 2013-10-01

Project End Date: 2012-10-31

Project Total Cost: 3 516 921.2

Project EC Financial Contribution: EUR 2 712 777

Slovak participant Name: SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, Slovak Medical University

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KAROLINSKA INSTITUTET - SWEDEN

CONSORCI INSTITUT D'INVESTIGACIONS BIOMEDIQUES AUGUST PI I SUNYER - SPAIN

PANEPISTIMIAKO GENIKO NOSOKOMEIO ATTIKON - GREECE

OULUN YLIOPISTO - FINLAND

LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN - GERMANY

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ST. PAUL'S CARDIAC ELECTROPHYSIOLOGY LLP - UNITED KINGDOM

SEMMELEWS EGYETEM - HUNGARY

KLINIKUM RECHTS DER ISAR DER TECHNISCHEN UNIVERSITAT MUNCHEN - GERMANY

UNIVERSITAETSSPITAL BASEL - SWITZERLAND

REGION HOVEDSTADEN - DENMARK

KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM

CHARITE - UNIVERSITAETSMEDIZIN BERLIN - GERMANY

GABO: MI GESELLSCHAFT FUR ABLAUFORGANISATION: MILLIARIUM MBH & CO KG - GERMANY

MAGDALENA - KLINIKA ZA KARDIOVASKULARNE BOLESTI MEDICINSKOG FAKULTETASVEUCILISTA J.J. STROSSMAYERA U OSIJEKU USTANOVA - CROATIA

SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, SLOVAK MEDICAL UNIVERSITY- SLOVAKIA

Project Description: The European collaborative project EU-CERT-ICD aims to analyse the effectiveness of prophylactic implantation of cardioverter defibrillators (ICDs) in Europe. The project includes a non-randomised, non-invasive, advanced diagnostics, observational trial in candidates and patients for primary prophylactic ICD therapy. Moreover, a large European registry is aimed to be generated collecting available data on prophylactic ICD treatment for comparative analysis. Data from both the prospective study and the registry will be compared with

results from a meta-analysis of existing literature data to estimate QoL-adjusted cost-effectiveness from actual cost comparisons and Markov decision models with attention to sub-groups, regional, and sex comparisons. EU-CERT-ICD is expected to provide important novel information to validate or challenge current guideline indications for primary prophylactic ICD treatment.

Project Objectives: EU-CERT-ICD (Comparative Effectiveness Research to Assess the Use of Primary Prophylactic Implantable Cardioverter Defibrillators in Europe) aims to generate temporary clinical outcome data on ICD effectiveness in Europe. Clinical outcomes including all-cause mortality, appropriate and inappropriate ICD shocks, and quality of life (QoL) are assessed by:

- A prospective study of patients undergoing indicated ICD treatment for primary SCD prevention, with a control group of patients not undergoing ICD treatment;
- A large European registry collecting available data on prophylactic ICD treatment;
- Meta-analyses of available and emerging ICD outcome studies.

QoL-adjusted cost-effectiveness will be estimated from actual cost comparisons and Markov decision models with attention to sub-groups, regional, and sex comparisons. Outcomes in patients receiving ICDs for primary SCD prevention will be compared in sub-strata, and with patients fulfilling guideline criteria but not undergoing therapy as per prior decision of treating physicians. Sub-groups with particularly large or small benefit from ICD implantation will be identified using risk markers and clinical characteristics with specific emphasis on gender. EU-CERT-ICD is expected to provide important novel information to validate or challenge current guideline indications for primary prophylactic ICD treatment.

Profile of Slovak Participant/ -s: The Research Base of the Slovak Medical University, Bratislava is the only institution in Slovakia entirely focused on medical research, carrying out experimental and clinical research. The Research Base of SMU has participated in numerous EU projects within the 5th and 6th Framework Programmes as well as in PHARE and NIH projects. Slovak Medical University is an EU Centre of Excellence in Environmental Health Research (HEAR NAS). The CoE is creating multidisciplinary research groups for projects aimed at reducing the negative impact of environmental factors on health. The scientific team which participated in FP5 project FIBRETOX focused on toxic effect of mineral dust. The team was involved in several FP6 projects, such as COMICS, NewGeneris, INTARESE, HEIMTSA, HENVINET and has a high level of expertise in environmental monitoring, biomonitoring, environmental and occupational epidemiology and genetic toxicology, and experience in development of new biomarkers of exposure, effect and genetic susceptibility, and genetic polymorphisms.

SK Participant Project Cost: EUR 189 574.3

SK Participant EC Financial Contribution: EUR 142 416

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EURO-URHIS 2

Project ID: 223711

Project Title: European Urban Health Indicators Part Two: Using indicators to inform policy

Project website: www.urhis.eu

Project Start Date: 2009-01-01

Project End Date: 2013-06-30

Project Total Cost: EUR 3 613 864.64

Project EC Financial Contribution: EUR 2 915 121

Slovak participant Name: OBČIANSKE ZDRUZENIE SLOVENSKA ASOCIACIA VEREJNEHO ZDRAVIA

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LANDESINSTITUT FUER GESUNDHEIT UND ARBEIT DES LANDES NORDRHEIN-WESTFALEN - GERMANY

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DAI HOC Y KHOA PHAM NGOC THACH (PHAM NGOC THACH UNIVERSITY OF MEDICINE) - VIETNAM

CHI LE-HA - VIETNAM

SOUTH EAST EUROPEAN UNIVERSITY - THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA

UNIVERSITY OF MEDICINE AND PHARMACY - ROMANIA

Project Description: EURO-URHIS 2 is developing, testing and validating a set of comparable urban health indicators in over 40 cities across the European Union and beyond. The project is building upon the work already completed by EURO-URHIS 1 and other related projects. Urban health is important due to urbanisation and requires specific information not captured by national datasets.

Project Objectives:

- Collect data at urban area level
- Provide tools for evidence based policy
- Develop methods for cross-sectional and longitudinal assessment for urban population health including all relevant determinants of health
- Validate these tools and methods by using existing population-based registries and databases
- Apply the tools in the field and ensuring they are easy and intuitive to use by policy makers.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 40 800

SK Participant EC Financial Contribution: EUR 30 600

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

FLU-PHARM

Project ID: 259751

Project Title: New drugs targeting influenza virus polymerase

Project website: <http://flupharm.eu/>

Project Start Date: 2010-11-01

Project End Date: 2015-04-30

Project Total Cost: EUR 8 476 003.8

Project EC Financial Contribution: EUR 5 998 757

Slovak participant Name: VIROLOGICKY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Virology of Slovak Academy of Sciences (SAS)

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ADVANCED TECHNOLOGY CORPORATION SA - BELGIUM

MEDIZINISCHE UNIVERSITAET WIEN – AUSTRIA

Project Description: The FLUPHARM project will exploit recent advances in the detailed elucidation of the structure and function of the viral polymerase to develop new drug candidates that inhibit viral replication (by targeting the PB2 and PA protein domains). Such drugs are expected to have a reduced risk of resistance development as the viral polymerase – in contrast to influenza envelop proteins – is highly conserved among all influenza A strains.

Project Objectives: The primary objectives of the project are to develop novel inhibitors targeting the cap-snatching activity of the influenza viral polymerase, and to advance a lead candidate into clinical development. The second objective of the project is enhancing further our fundamental understanding of the structure and cellular function of the influenza polymerase.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 373 000

SK Participant EC Financial Contribution: EUR 279 750

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

INTERLINKS

Project ID: 223037

Project Title: Health systems and long-term care for older people in Europe – Modelling the INTERfaces and LINKS between prevention, rehabilitation, quality of services and informal care

Project website: <http://interlinks.euro.centre.org/>

Project Start Date: 2008-11-01

Project End Date: 2011-12-31

Project Total Cost: EUR 3 894 297.2

Project EC Financial Contribution: EUR 2 985 919

Slovak participant Name: INSTITUT PRE VYSKUM PRACE A RODINY, Institute for Labour and Family Research

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SYDDANSK UNIVERSITET - DENMARK

INSTITUT DE RECHERCHE ET DOCUMENTATION EN ECONOMIE DE LA SANTE ASSOCIATION - FRANCE

TERVEYDEN JA HYVINVOINNIN LAITOS - SUOMI/FINLAND

INSTITUT FUER SOZIALE INFRASTRUKTUR GBR - GERMANY

WISSENSCHAFTSZENTRUM BERLIN FÜR SOZIALFORSCHUNG - GERMANY

CMT PROOPTIKI CONSULTING MANAGEMENT TRAINING - GREECE

UNIVERSITAT DE VALENCIA - SPAIN

STUDIO COME SRL - ITALY

STICHTING VILANS - NETHERLANDS

INSTITUT PRE VYSKUM PRACE A RODINY, INSTITUTE FOR LABOUR AND FAMILY RESEARCH- SLOVAKIA

INSTITUT ZA VAROVANJE ZDRAVJA REPUBLIKE SLOVENIJE – SLOVENIA

STOCKHOLMS LAENS LANDSTING - SWEDEN

UNIVERSITY OF KENT - UNITED KINGDOM

THE UNIVERSITY OF BIRMINGHAM - UNITED KINGDOM

Project Description: The INTERLINKS project helps people in Europe who work with and represent elderly people in need of long-term care (LTC). We want to inspire health and social care professionals, policy makers, people from administrative agencies, and people working in non-governmental organisations (NGOs) to:

- work towards integrated systems of LTC;
- improve planning and delivery of services for frail elderly people at the interfaces between formal and informal care, and between social care and health care;
- integrate prevention, rehabilitation, quality management, governance and finance in the toolbox to develop LTC systems.

Project Objectives: The objective of this 3-year project is to construct and validate a general model which could be used to describe and analyse long-term care (LTC) systems for elderly people from a European perspective. Particular aspects of the different emerging national models that currently address long-term care needs in Europe will be used to show how the links to health care services, the quality of LTC services, the incentives for prevention and rehabilitation, and the support for informal carers can be governed and financed to enhance structures, processes and outcomes of LTC systems. Based on the assumption that LTC systems in Europe have only started to develop at the boundaries of health and social care, the project will focus on the elaboration of concepts, indicators and models for policies and practice at the interfaces and links between health systems and LTC. Good practice determinants will be identified and validated across countries. A European state-of-the-art model for describing and analysing long-term care provision will thus be constructed as an analytical toolbox that takes into account pathways of reform policies at any stage of a national LTC system's development. The project outcomes will guide policy analysis and design, permit comparison and will substantially broaden the scientific base that supports the Member States to better organise their health and LTC systems. It will also integrate the professional and the non-professional domain with inputs from a wide range of stakeholders by means of National Expert Panels and European-level Sounding Board Conferences.

Profile of Slovak Participant/ -s: The Institute for Labour and Family Research (ILFR) is a public research organisation subsidised by the Ministry of Labour, Social affairs and Family of the Slovak Republic (MOLSAF). Its research activities focus on the family and social inclusion policy - living conditions of families and individuals threatened by poverty and social exclusion, as well as on research in the area of labour, employment, industrial relations and occupational safety and health policy. Specific attention is dedicated to social assistance for dependent people (particularly people with disabilities and elderly people living at home or in residential care). Other research and expertise is related to reconciliation of work and family life, migration issues and research skills of young researchers. The ILFR carried out surveys and analyses related to living conditions of people with disabilities and elderly people living at home or in short- and long-term residential care. For example, in 2005 a representative survey focused on living conditions and professional performance of various specialists working in residential care facilities for dependent people (including elderly people with psychiatric disorders). Another survey was related to the situation of families caring for dependent members and their expectations of family support policy. ILFR is directly active in the preparation of significant documents concerning public social services in the Slovak Republic, currently focusing on the quality of life for people with diagnosed with psychiatric disorders.

SK Participant Project Cost: EUR 118 144

SK Participant EC Financial Contribution: EUR 90 244

Project Outcomes planned/real: National reports on: 1) The role of informal care in long-term care (LTC) - 7 countries, 2) Assurance and quality management in LTC - 6 countries, 3) Prevention and rehabilitation in LTC - 9 countries, 4) Governance and finance in LTC-11 countries. International reports within these 4 fields - 4 reports. Development of Framework for LTC. Development of about 100 examples of best practice in 6 thematic areas of the framework for LTC. Contributions to an international conference on LTC in Baden, Austria in 2011.

Slovak Participant's Role in Project: A) Elaboration of 2 national reports in LTC: 1) The role of informal care in long-term care (LTC); 2) Governance and finance in LTC. B) Participation within elaboration of 2 international reports: 1) The role of informal care in long term care (LTC); 2) Governance and finance in LTC. Elaboration of 7 examples of best practice in 5 thematic areas of framework for LTC. Participation in the preparation of and presentation at international conference in Baden, Austria in 2011.

JUMPAHEAD

Project ID: 260774

Project Title: Coordination Action in support of the implementation of a Joint Programming Initiative for Combating Neurodegenerative Diseases, in particular Alzheimer's disease

Project website: <http://www.neurodegenerationresearch.eu/about/jumpahead/>

Project Start Date: 2010-09-01

Project End Date: 2014-08-31

Project Total Cost: EUR 2 618 089.66

Project EC Financial Contribution: EUR 2 000 000

Slovak participant Name: NEUROIMUNOLOGICKY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Neuroimmunology of Slovak Academy of Sciences

Slovak participant address: Dúbravská cesta 9, 845 10 Bratislava

Contact person email/ phone: Mrs Monika Hirmajerová, monika.hirmajerova@savba.sk, +421 2 54788100

Partners of the Consortium:

INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM) – FRANCE

MEDICAL RESEARCH COUNCIL - UNITED KINGDOM

BUNDESMINISTERIUM FUER BILDUNG UND FORSCHUNG – GERMANY

DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV – GERMANY

THE HEALTH RESEARCH BOARD - ÉIRE/IRELAND

THE NETHERLANDS ORGANISATION FOR HEALTH RESEARCH AND DEVELOPMENT – NETHERLANDS

MINISTERO DELL'ISTRUZIONE, DELL'UNIVERSITA' E DELLA RICERCA – ITALY

TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU – TURKEY

INSTITUTO DE SALUD CARLOS III – SPAIN

NEUROIMUNOLOGICKY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF NEUROIMMUNOLOGY OF SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

NEMZETI KUTATASI ES TECHNOLOGIAI HIVATAL – HUNGARY

INSERM - TRANSFERT SA – FRANCE

VETENSKAPSRADDET - SWEDISH RESEARCH COUNCIL – SWEDEN

Project Description: The JUMPAHEAD project is a coordination action that supports the implementation of the Joint Programme initiative to combat neurodegenerative diseases. Neurodegenerative disorders are incurable and debilitating conditions that result in progressive degeneration or death of nerve cells. Of these, the dementias are responsible for the greatest burden of disease, and today in Europe over 7 million people suffer from Alzheimer's disease and related disorders, with this figure expected to double by 2020 as the European population ages. Although our understanding of the mechanisms of neurodegenerative disease has greatly improved over the past few years, there is no effective treatment able to stop or even slow down the deterioration of brain functions associated with these disorders.

To tackle this pan-European health and societal challenge more effectively, 22 EU countries have launched the JPND. This is an innovative programme based on a common vision to improve the impact of their combined research effort to accelerate progress towards new treatments, identify preventative strategies, and improve patient care.

Project Objectives: The objective of the Coordination Action JUMPAHEAD is to support the implementation of the pilot Joint Programming Initiative on combating neurodegenerative diseases, in particular Alzheimer's disease (JPND). The project aims to confront the growing challenge posed by neurodegenerative diseases in our ageing population by bringing together researchers, existing research evidence and national funding bodies to investigate the key research questions and barriers to progress in this area. Project goals are to:

- add value to national investments through coordinated action
- encourage the development of national research strategies in ND
- engage in partnership to reach the full potential of JPN

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 24 000

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

LIPIDOMICNET

Project ID: 202272

Project Title: Lipid droplets as dynamic organelles of fat deposition and release: Translational research towards human disease

Project website: <http://www.lipidomicnet.org>

Project Start Date: 2008-05-01

Project End Date: 2012-10-31

Project Total Cost: EUR 16 022 988.28

Project EC Financial Contribution: EUR 11 603 930

Slovak participant Name: USTAV EXPERIMENTALNEJ ENDOKRINOLOGIE - SLOVENSKEJ AKADEMIE VIED, Institute of Experimental Endocrinology of the Slovak Academy of Sciences (SAS)

Slovak participant address: Vlárská 3, 83306 BRATISLAVA

Contact person email/ phone: Mgr. Daniela Gasperikova, PhD, e-mail: daniela.gasperikova@savba.sk, phone: +421 905 681 978

Partners of the Consortium:

UNIVERSITÄTSKLINIKUM REGENSBURG – GERMANY

UNIVERSITEIT UTRECHT - NETHERLANDS

CONSORZIO MARIO NEGRI SUD - ITALY

INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE, UNIVERSITÉ PARIS - FRANCE

LEIDEN UNIVERSITY MEDICAL CENTER – NETHERLANDS

DIE EIDGENÖSSISCHE TECHNISCHE HOCHSCHULE, ZÜRICH – SWITZERLAND

UNIVERSITY OF GRAZ - AUSTRIA

GOTHENBURG UNIVERSITY - SWEDEN

BIOLOGICAL RESEARCH CENTRE HUNGARIAN ACADEMY OF SCIENCES SZEGED - HUNGARY

THE BABRAHAM INSTITUTE - UNITED KINGDOM

UNIVERSITY OF HELSINKI - FINLAND

UNIVERSITY OF BONN - GERMANY

EUROPEAN BIOINFORMATICS INSTITUTE - UNITED KINGDOM

UNIVERSITÄTSMEDIZIN GÖTTINGEN-GEORG-AUGUSTUS-UNIVERSITÄT - GERMANY

BIODISE - GERMANY

ZORA BIOSCIENCES LTD - FINLAND

PROTAGEN AG - GERMANY

ITERGROMICS SL – SPAIN

OXFORD CENTER FOR DIABETES, ENDOCRINOLOGY AND METABOLISM, UNIVERSITY OF OXFORD - UNITED KINGDOM

MRC VIROLOGY UNIT - UNITED KINGDOM

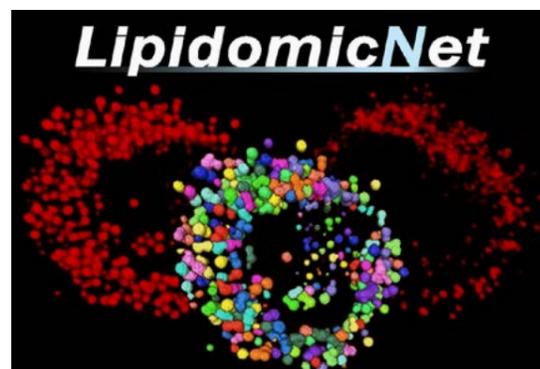
INSTITUTE OF SYSTEMS BIOLOGY - RUSSIA

LEIBNIZ-INSTITUTE FOR ATHEROSCLEROSIS RESEARCH, WESTFÄLISCHE WILHELMS UNIVERSITÄT MÜNSTER - GERMANY

JAGIELLONIAN UNIVERSITY MEDICAL COLLEGE - POLAND

USTAV EXPERIMENTALNEJ ENDOKRINOLOGIE - SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF EXPERIMENTAL ENDOCRINOLOGY OF THE SLOVAK ACADEMY OF SCIENCES (SAS)

Project Description: Lipids are central to the regulation and control of cellular processes by acting as basic building units for biomembranes, the platforms for the vast majority of cellular functions. Recent developments in lipid mass spectrometry have set the scene for a completely new way to understand the composition of membranes, cells and tissues in space and time by allowing the precise identification and quantification of alterations of the total lipid profile after specific perturbations. In combination with advanced proteome and transcriptome analysis tools and novel imaging techniques using RNA interference, it is now possible to unravel the complex network between lipids, genes and proteins in an integrated lipidomics approach. This project application of the European Lipidomics Initiative (ELife) addresses lipid droplets (LD) as dynamic organelles with regard to composition, metabolism and regulation. LD are the hallmark of energy overload diseases with a major health care impact in Europe. The project exploits recent advances in lipidomics to establish high-throughput methods to define druggable targets and novel biomarkers related to LD lipid and protein species, their interaction and regulation during assembly, disassembly and storage. Translational research from mouse to man applied to LD pathology is a cornerstone of this project, standing at the interface between research and development. To maximize the value of the assembled data generated throughout the project, "LipidomicNet," a detailed special purpose Wiki format database is being developed and linked to the existing Lipidomics Expertise Platform (LEP), which was established through the SSA ELife project. ELife collaborates with the NIH initiative LIPID MAPS and the Japanese pendant Lipid Bank - Japan and is connected to the Danubian Biobank consortium Danubian Biobank Consortium for clinical lipidomics.



Project Objectives: The LipidomicNet project aimed to exploit the recent developments in lipidomics to establish high-throughput methods and define druggable targets and novel biomarkers related to LD composition. The Consortium studied lipid-protein interactions and investigated the dynamics of fat deposition and release in relevant cells, genetic mouse models and materials from human diabetes cohorts as the hallmark of energy-overload diseases with major health care impact in Europe. The results have been integrated across the different discovery platforms to enhance and annotate the pathway knowledge as found in literature. As defined in the work program, the following major scientific and technological objectives of this highly focused S&T project were set to:

- develop high-throughput tools allowing the discrimination of LD heterogeneity as related to lipid and protein composition, interaction, and function, to validate the known constituents and identify new components;

- expand the current structural and dynamic knowledge of LD assembly and disassembly and to identify novel lipidomic and proteomic constituents and interactions thereof;
- dissect non-clathrin and clathrin mediated lipid-influx pathways and to characterize their abnormalities towards phospholipidosis development in relevant lipid storing cells and tissues;
- validate the known LD-efflux pathways and identify novel proteomic and lipidomic targets, related to druggability and biomarker development;
- extend the knowledge of cellular lipid- and protein kinases and phosphatases, regulating the influx, efflux and storage in endolysosomes (phospholipidoses) and LD, and to identify novel extracellular signals that affect lipid storage and release;
- identify and validate transcriptional networks regulating influx/efflux of lipids and dynamics of LD assembly and disassembly;
- perform translational research from mouse to man applied to the LD theme in liver cells, adipose tissue, macrophages and granulocytes during metabolic overload dependent transdifferentiation, and to determine the relationship between LD and hepatitis C virus (HCV) infection;
- develop LipidomicNet as a Wiki-format public database that provides the connectivity algorithms to synergize knowledge and data analysis generated by lipidomic, proteomic, genomic, and transcriptomic high-throughput (HT) and high-content (HC) detection;
- establish a world-leading European consortium on the basis of genuine and equal partnership between leading academic groups, analytical chemists, cell biologists, clinical scientists, bioinformatics, computer scientists, and biostatisticians to provide a resource for further knowledge in lipidomics for the benefit of the European Community and for the improvement of health care.

Profile of Slovak Participant/ -s: The Institute of Experimental Endocrinology (IEE) of the Slovak Academy of Sciences (SAS) in Bratislava, Slovakia, is a superior internationally renowned research centre, with a 60-year history of research aimed at investigating 1) the thyroid function in various physiological and pathophysiological situations, 2) the neuroendocrine regulation of stress response to different stimuli including manned space flights and 3) particular emphasis placed for more than the past 15 years to lipid and lipoprotein metabolism in relation to insulin resistance specifically in adipose tissue and skeletal muscle. Specific aim of this work is to translate scientific knowledge to clinical practice by employing physiological interventions such as exercise and using results of the genetic testing for monogenic forms of diabetes, obesity and/or dyslipidemia to alleviate metabolic and other obesity-related comorbidities. Moreover, studies of the structure/function nature are also carried out in order to explain the molecular pathogenicity of the novel mutations identified. Integrated clinical-physiology approach (specific patient groups, genetically modified experimental animals) is here combined with ex vivo molecular genetic studies in isolated tissues and studies with in vitro cell culture models employing state-of-the-art infrastructure. IEE SAS is an excellent training centre for many graduate and

doctoral students, as well as a coordinating and/or participating centre for a large number of national and international research projects. Scientists from IEE are also actively involved in teaching at the pre- and post-graduate level.

SK Participant Project Cost: EUR 337 200

SK Participant EC Financial Contribution: EUR 252 900

Project Outcomes planned/real: The LipidomicNet project aimed to exploit the recent developments in lipidomics to establish high-throughput methods and define druggable targets and novel biomarkers related to lipid droplet composition. The Consortium studied lipid-protein interactions and investigated the dynamics of fat deposition and release in relevant cells, genetic mouse models and materials from human diabetes cohorts as the hallmark of energy-overload diseases exercising major health care impact in Europe. The results have been integrated across the different discovery platforms to enhance and annotate the pathway knowledge as found in literature.

The major outcome for the Slovak participant is the creation of the biobank with 120 metabolically well-characterized individuals. This biological material and all the relevant clinical phenotypes are being used to uncover molecular signalling pathways related to early development of obesity, glucose intolerance and type 2 diabetes in man as shown in our recently published work (see below). High-throughput lipidomic & transcriptomic data guide us in the search for early metabolic disease markers such as specific species of lysophosphatidyl cholines etc.

Slovak Participant's Role in Project: Laboratory of Diabetes and Metabolic Disorders of IEE SAS was involved in the Work Package 4 "Human population-based studies of diabetes and lipid signalling in adipose tissue" with the aim to study early signs of metabolic disease development in subjects with different degree of glucose tolerance and type 2 diabetes. Healthy lean individuals were compared to obese ones (BMI 30-35 kg/m²) with normal and impaired glucose tolerance as well as with newly diagnosed type-2 diabetes patients. A total of 120 individuals were subjected to complex metabolic phenotyping which included oral glucose-tolerance test, euglycemic hyperinsulinemic clamp, MR imaging and spectroscopy to measure abdominal adipose tissue distribution as well as hepatic and intramyocellular lipid content. Adipose tissue and skeletal muscle biopsies were taken. Large-scale transcriptomic and lipidomic analyses in adipose tissue and plasma were performed in external collaboration; however, the majority of the following molecular genetics analyses and cell culture experiments were done in our laboratory.

Research in the Laboratory of Diabetes and Metabolic Disorders IEE SAS is aimed at elucidating molecular mechanisms linking obesity and physical inactivity to insulin resistance. The clinical studies are focused at the endocrine/paracrine function of the adipose tissue and skeletal muscle and its cross-talk in determining metabolic health of patients with common obesity, obesity related to growth hormone deficiency, as well as in patients with rare monogenic forms of obesity. Recent focus is also aimed at investigating genetic determinants of diabetes, obesity and familial hypercholesterolemia with emphasis on the phenotype-genotype correlation and discovery of new gene variants using next-generation sequencing technology.

METACANCER

Project ID: 200327

Project Title: Identification and validation of new breast cancer biomarkers based on integrated metabolomics

Project website: <http://www.metacancer-fp7.eu/>

Project Start Date: 2008-04-01

Project End Date: 2011-03-31

Project Total Cost: EUR 3 687 434

Project EC Financial Contribution: EUR 2 873 205

Slovak participant Name: HIGHCHEM LTD

Slovak participant address: Čajaková 18, 811 05 BRATISLAVA

Contact person: Dr. Robert Mistrik, email/ phone: robert@highchem.com, +421-2-52624024

Partners of the Consortium:

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UNIVERSITY OF CAMBRIDGE - UNITED KINGDOM

UNIVERSITY OF CALIFORNIA DAVIS - USA

VTT TECHNICAL RESEARCH CENTRE OF FILNAD - FINLAND

GBG FORSCHUNGS GMBH - GERMANY

TP21 GMBH - GERMANY

LOWER SILESIA ONCOLOGY CENTER POLAND - POLAND

HIGHCHEM LTD- SLOVAKIA

Project Description: Breast cancer is the most common cancer in women. In the Western world, approximately one in eight women will develop an invasive breast carcinoma in her lifetime. While the disease is curable in early stages, about 50% of the patients have stage II or III tumors and are potential candidates for systemic therapy. This patient group would benefit from a patient-tailored therapy on the basis of biomarker testing.

While genetic alterations have been extensively characterized in breast cancer, the changes in metabolism that occur downstream from genomic and proteomic alterations have not been analyzed in detail to date.

The metabolome reflects alterations in the pathophysiological state of biological systems. Metabolic alterations can be the consequences of changes in metabolic pathways, but also in signalling pathways, membrane turnover and other cellular networks. Since small changes in enzyme concentrations or activities can lead to large changes in metabolite levels, the metabolome is regarded as the amplified output of a biological system.

Project Objectives: The METAcancer objective is to test the hypothesis, that alterations in the level of metabolites can be used for a molecular classification of breast cancer as well as for the identification of new prognostic and predictive biomarkers.

The concept of the METAcancer approach is the application of combined technologies for metabolic profiling to large-scale analysis of patient samples in the field of translational research in breast cancer:

- the project is based on a large tumor biobank as well as on comprehensive previous investigations of the consortium partners;
- researchers will use three different metabolic profiling technologies (GC-MS, NMR and LC-MS) to maximize the coverage of the breast cancer metabolome and apply advanced strategies for the identification of individual metabolites;
- METAcancer's integrated data-mining approach combines metabolomic data gained under the project with existing transcriptomic data pools for bioinformatic interpretation of cellular networks.

By this strategy, the project will be able to go beyond the metabolite level and to identify and validate selected protein and mRNA biomarkers relevant for metabolic alterations. This will result in a combined signature consisting of metabolites as well as key protein and mRNA markers as a basis for a validated diagnostic system to assess prognosis and to guide targeted therapies in breast cancer.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 92 000

SK Participant EC Financial Contribution: EUR 72 800

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

METOXIA

Project ID: 222741

Project Title: Metastatic tumours facilitated by hypoxic tumour micro-environments

Project website: <http://www.metoxia.uio.no/>

Project Start Date: 2009-02-01

Project End Date: 2014-07-31

Project Total Cost: EUR 16 038 623

Project EC Financial Contribution: EUR 11 998 300

Slovak participant Name: VIROLOGICKY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Virology of Slovak Academy of Sciences (SAS)

Slovak participant address: Dubravská Cesta 9, 84505, BRATISLAVA

Contact person: Mrs. Irena Ginžeryová, email/ phone: viruigin@savba.sk, +421-2-59302404

Partners of the Consortium:

UNIVERSITETET I OSLO - NORWAY

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS) - FRANCE

KAROLINSKA INSTITUTET - SWEDEN

ALBERT-LUDWIGS-UNIVERSITAET FREIBURG - GERMANY

UNIVERSITY COLLEGE LONDON - UNITED KINGDOM

THE UNIVERSITY OF EDINBURGH - UNITED KINGDOM

THE UNIVERSITY OF MANCHESTER - UNITED KINGDOM

AARHUS UNIVERSITETSHOSPITAL, AARHUS SYGEGEHUS - DENMARK

VIVOX APS - DENMARK

DEUTSCHES HERZZENTRUM MUNCHEN - GERMANY

UNIVERSITA DEGLI STUDI DI FIRENZE - ITALY

STICHTING KATHOLIEKE UNIVERSITEIT - NETHERLANDS

UNIVERSITEIT MAASTRICHT - NETHERLANDS

FMC BIOPOLYMER AS - NORWAY

OSLO UNIVERSITETSSYKEHUS HF - NORWAY

VIROLOGICKY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF VIROLOGY OF SLOVAK ACADEMY OF SCIENCES (SAS) - SLOVAKIA

UNIVERSIDAD AUTONOMA DE MADRID - SPAIN

STICHTING MAASTRICHT RADIATION ONCOLOGY MAASTRO CLINIC - NETHERLANDS

THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD - UNITED KINGDOM

VILNIUS UNIVERSITETAS - LITHUANIA

JOBST TECHNOLOGIES GMBH - GERMANY

Project Description: Solid cancers generally contain areas with abnormally low levels of oxygen. Such areas are denoted hypoxic. It has long been known that cancer cells in such hypoxic micro-environments are resistant to treatment, both to radiotherapy and chemotherapy. Recent research has furthermore shown that variable hypoxia in tumours is one of the major drivers of metastatic spread of cancer, the major cause of death by the disease. Thus, hypoxia is responsible for a double effect of reducing the potential of a successful treatment of the cancer patient: Resistance to treatment and ability to spread to distant parts of the body. At the same time the very low level of oxygen found in solid tumours are specific to cancer. Therefore, if one could develop new methods to specifically detect and inactivate cells in hypoxic areas one might obtain a cancer-specific effect, selective for the most harmful of the cancer cells. This development is the over-all task of the METOXIA project.

Project Objectives: On basis of the clinical problems raised by hypoxic tumour micro-environments the work within METOXIA encompasses increasing the knowledge concerning the metastatic process in the hypoxic micro-environment at the molecular level in order to develop novel strategies for modification of this environment and thus improve the efficacy of chemotherapy and radiotherapy. Major objectives are:

- Gain new knowledge about molecular mechanisms behind hypoxia-driven metastasis in order to reduce metastatic spread and increase patient cure rate.
- Develop improved methods to detect the propensity of a cancer to metastasise before the metastatic spread has become manifest clinically.
- Develop new treatment management of metastatic disease.
- Develop new methods to increase the effectiveness of treatment in hypoxic areas of the primary tumour.
- Development of new methods for detection/ imaging of hypoxic areas.
- Generate pre-clinical models for the study of the role of hypoxia in metastases.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 732 100

SK Participant EC Financial Contribution: EUR 412 900

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MM4TB

Project ID: 260872
 Project Title: More Medicines for Tuberculosis
 Project website: <http://www.mm4tb.org/>
 Project Start Date: 2011-02-01
 Project End Date: 2016-01-31
 Project Total Cost: EUR 16 695 126.34
 Project EC Financial Contribution: EUR 11 873 052
 Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava
 Slovak participant address: SAFARIKOVO NAM. 6, 818 06 BRATISLAVA
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 SCIPROM SARL - SWITZERLAND
 INDIAN INSTITUTE OF SCIENCE - INDIA
 INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM) - FRANCE
 UNIVERSITY OF CAPE TOWN - SOUTH AFRICA
 QUEEN MARY AND WESTFIELD COLLEGE, UNIVERSITY OF LONDON - UNITED KINGDOM
 UNIVERSIDAD DEL PAIS VASCO - SPAIN
 UNIVERSIDAD DE ZARAGOZA - SPAIN
 UPPSALA UNIVERSITET - SWEDEN
 UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-SLOVAKIA
 UNIVERSITA DEGLI STUDI DI PAVIA - ITALY
 UNIVERSITA DEGLI STUDI DI PADOVA - ITALY
 THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE - UNITED KINGDOM
 CELLWORKS RESEARCH INDIA PRIVATE LIMITED - INDIA
 EIDGENÖSSISCHE TECHNISCHE HOCHSCHULE ZÜRICH - SWITZERLAND
 UNIVERSITA DEGLI STUDI DEL PIEMONTE ORIENTALE AMEDEO AVOGADRO - ITALY
 VICHEM CHEMIE KUTATO KFT - HUNGARY
 COLLABORATIVE DRUG DISCOVERY INC CORPORATION - UNITED STATES
 INSTITUT PASTEUR - FRANCE
 ALERE TECHNOLOGIES GMBH - GERMANY
 SANOFI-AVENTIS RECHERCHE & DEVELOPPEMENT - FRANCE
 INSTITUTION OF THE RUSSIAN ACADEMY OF SCIENCES, A.N. BACH INSTITUTE OF BIOCHEMISTRY OF RAS - Russia
 TYDOCK PHARMA S.R.L. - ITALY
 JOHN INNES CENTRE - UNITED KINGDOM
 ASTRAZENCA INDIA PVT LTD. - INDIA



Project Description: The More Medicines for Tuberculosis (MM4TB) consortium evolved from the highly successful FP6 project “New Medicines for TB” (NM4TB), that delivered a candidate drug for clinical development two years ahead of schedule.

Project Objectives: MM4TB will continue to develop new drugs for TB treatment. An integrated approach will be implemented by a multidisciplinary team that combines some of Europe’s leading academic TB researchers with two major pharmaceutical companies and four SMEs, all strongly committed to the discovery of anti-infective agents. MM4TB will use a tripartite screening strategy to discover new hits in libraries of natural products and synthetic compounds, while concentrating on both classical and innovative targets that have been pharmacologically validated. Whole cell screens will be ducted against Mycobacterium tuberculosis using in vitro and ex vivo models for active growth, latency and intracellular infection. Hits that are positive in two or more of these models will then be used for target identification using functional genomics technologies including whole genome sequencing and genetic complementation of resistant mutants, yeast three hybrid, click chemistry and proteomics. Targets thus selected will enter assay development, structure determination, fragment-based and rational drug design programs; functionally related targets will be found using metabolic pathway reconstruction. Innovative techniques, based on microfluidics and array platforms, will be used for hit ranking, determining rates of coincidental and firming mechanism of action. Medicinal chemistry will convert leads to molecules with drug-like properties for evaluation of efficacy in different animal models and late preclinical testing.

Profile of Slovak Participant/ -s: The project is being implemented at the Comenius University (CU) in Bratislava, at the Department of Biochemistry of the Faculty of Natural Sciences. CU is the oldest and largest university in the Slovak Republic. It was founded in 1919 and it continues the university tradition of Academia Istropolitana, founded in Bratislava in 1465 by Hungarian king Matthias Corvinus. Since its foundation it has occupied the leading position of the national system of higher education and has become an internationally recognized centre of science and research. As the most complex university of the conventional type in the Slovak Republic, it holds the position of national university.

Comenius University comprises thirteen faculties, with around 28 000 students at all three levels of study, of which 21 000 are full time students. Study programmes at the oldest Slovak university enjoy vast popularity with international students – more than 2 300 students from 80 countries study at CU. The university admits about 9 000 new students every year, who can choose from a broad range of several hundreds of courses. The Faculty of Natural Sciences at Comenius University in Bratislava (FNS CU) was founded in 1940. It is a top scientific and educational institution with extensive pedagogical and research focus. At present, the Faculty of Natural Sciences is one of the largest CU faculties, in both number of staff and students, and at the same time, it is the largest natural sciences faculty in Slovakia. In addition, FNS CU is also the first faculty in Slovakia whose Chemistry Bachelor programme was awarded the quality label Chemistry EUROBACHELOR®.

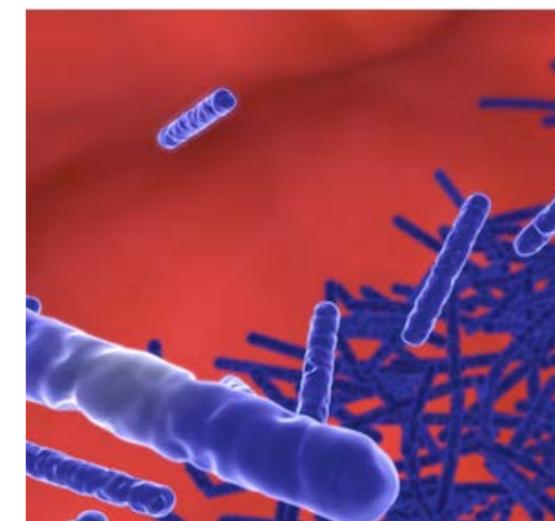
SK Participant Project Cost: EUR 566 166.67

SK Participant EC Financial Contribution: EUR 425 000

Project Outcomes planned/real: Tuberculosis (TB), a colossal public health problem, is one of the major obstacles to economic growth and social stability in the world. No country is unaffected by the disease, which was once considered to have been eliminated from Europe but is now resurgent. The objective of MM4TB, in response to “2.3.2-1: Target characterisation and hit-to-lead progression in TB drug development”, is to discover and validate new drug targets pharmacologically and to identify new chemical entities that could serve as candidates for novel TB drugs. We are employing novel whole-cell and phenotypic approaches with Mycobacterium tuberculosis (Mtb), in conjunction with a prioritized list of validated targets, in order to generate leads. Our explicit objectives are to validate at least five new drug targets pharmacologically and to discover at least one family of candidate drugs (CD). These CDs will then be transferred to biotechnology companies or pharmaceutical partners for further development. The involvement of pharmaceutical companies is a major strength of MM4TB, which in its previous form as NM4TB (New Medicines for Tuberculosis) successfully discovered the benzothiazinone (BTZ) series that is currently in late-stage preclinical development. (Source: MM4TB Grant Proposal)

Slovak Participant’s Role in Project: The common ground of all teams of the Department of Biochemistry is the investigation of pathogenic microorganisms and/or their surrogates, analysis of key biological process essential for their viability and search for molecular targets suitable for design of new drugs and identification of pathogens. We apply a wide range of contemporary experimental approaches of biochemistry, bioinformatics, molecular and cell biology in this research.

The main goal of research in the Laboratory of mycobacterial biochemistry, which participates in the MM4TB project is to identify the genes involved in the cell envelope biogenesis and their functional characterization, which could contribute to understanding one of the important aspects of mycobacterial physiology and also provide new information relevant to drug development. Our role in the project is thorough biochemical characterization of the effects of the drug candidates on mycobacterial metabolism, particularly on cell wall biosynthesis.



NANOTEST

Project ID: 201335

Project Title: Development of methodology for alternative testing strategies for the assessment of the toxicological profile of nanoparticles used in medical diagnostics

Project website: -

Project Start Date: 2008-04-01

Project End Date: 2012-03-31

Project Total Cost: EUR 3 933 271.01

Project EC Financial Contribution: EUR 2 994 383

Slovak participant Name: SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, Slovak Medical University

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Partners of the Consortium:

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THE INSTITUTE OF OCCUPATIONAL MEDICINE - UNITED KINGDOM

UNIVERSITY OF LAUSANNE - SWITZERLAND

UNIVERSITY PARIS DIDEROT - FRANCE

UNITED BRISTOL HEALTHCARE NHS TRUST – UNITED KINGDOM

SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, SLOVAK MEDICAL UNIVERSITY-SLOVAKIA

JOINT RESEARCH CENTRE - ITALY

NATIONAL CENTRE FOR SCIENTIFIC RESEARCH “DEMOKRITOS” – GREECE

UNIVERSITY OF COPENHAGEN - DENMARK

ADVANCED CELL IN VITRO CELL TECHNOLOGIES - SPAIN

UNIVERSITY CA' FOSCARI OF VENICE - ITALY

LEITAT TECHNOLOGICAL CENTER - SPAIN

Project Description: The overall project objective is to develop alternative testing strategies and high-throughput toxicity testing protocols using in vitro and in silico methods essential for the risk assessment of nanoparticles used in medical diagnostics.

Project Objectives: Specific goals of NanoTEST are to:

- define parameters describing properties of NP, and to carry out particle characterization;
- study specific and nonspecific interactions of NP with molecules, cells and organs and to develop in vitro methods which can identify the toxicological potential of NP;
- validate in vitro findings in short-term in vivo models, to study manifestation of particle effects in animals and humans, and to assess individual susceptibility in the response to NPs;
- perform Structure-Activity modelling and physiologically-based pharmacokinetic (PBPK) modelling of NP;
- adapt the most advanced and promising assays for high-throughput automated systems and to prepare them for validation by ECVAM.

- The primary goal is to define reference biological markers using relevant in vitro models of toxicology which can be used by other researchers and technologists to test the possible toxicity of medical (or other) NP, in order to reduce animal experiments as much as possible.

Profile of Slovak Participant/ -s: The Research Base of the Slovak Medical University, Bratislava is the only institution in Slovakia entirely focused on medical research, carrying out experimental and clinical research. The Research Base of SMU has participated in numerous EU projects within the 5th and 6th Framework Programmes as well as in PHARE and NIH projects. Slovak Medical University is an EU Centre of Excellence in Environmental Health Research (HEAR NAS). The CoE is creating multidisciplinary research groups for projects aimed at reducing the negative impact of environmental factors on health. The scientific team which participated in FP5 project FIBRETOX focused on toxic effect of mineral dust. The team was involved in several FP6 projects, such as COMICS, NewGeneris, INTARESE, HEIMTSA, HENVINET and has a high level of expertise in environmental monitoring, biomonitoring, environmental and occupational epidemiology and genetic toxicology, and experience in development of new biomarkers of exposure, effect and genetic susceptibility, and genetic polymorphisms.

SK Participant Project Cost: EUR 453 000

SK Participant EC Financial Contribution: EUR 339 750



Project Outcomes planned/real: The overall aim of this proposal was to develop alternative testing strategies and high-throughput toxicity-testing protocols using in vitro and in silico methods, which are essential for the risk assessment of these NP. Our goal was to define objective reference biological markers, using relevant in vitro models of toxicology which can be used by other researchers and technologists to test the possible toxicity of medical (or other) NP, in order to reduce animal experiments as much as possible. To define these biological markers, we used cell cultures (in vitro models), organotypic cell culture and small fragments of organs (ex vivo models), exposing them to NP in 1) clinical use and 2) under development and determining their reaction in order to define reference markers and reference cellular models for evaluation of potential health hazards of these nanomaterials. While it was not possible to consider all organs which might be potentially affected by exposure to medical NP, we considered a range of representative organs and cell lines from these organs for use within NanoTEST. A multidisciplinary approach was required to achieve these objectives, and hence a consortium was established with a wide range of expertise in relevant areas including toxicological, physiological, chemical, experimental and mathematical sciences.

Slovak Participant's Role in Project: In this project, scientists at SMU were responsible for overall WP3 in vivo experiments in laboratory animals; for testing renal toxicity of the NP within WP 3; for testing lung toxicity in sub WP2 and for tasks related to immunotoxicity within WP 2 and 3.

SOPHIE

Project ID: 278173

Project Title: Evaluating the impact of structural policies on health inequalities and their social determinants and fostering change

Project website: www.sophie-project.eu

Project Start Date: 2011-11-01

Project End Date: 2015-10-31

Project Total Cost: EUR 3 312 264.04

Project EC Financial Contribution: EUR 2 535 757

Slovak participant Name: UNIVERZITA PAVLA JOZEFA SAFARIKA V KOSICIACH, P.J. Šafárik University in Košice

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Partners of the Consortium:

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UNIVERZITA KARLOVA V PRAZE - CZECH REPUBLIC

UNIVERSITAT POMPEU FABRA - SPAIN

ACADEMISCH MEDISCH CENTRUM BIJ DE UNIVERSITEIT VAN AMSTERDAM - NETHERLANDS

VRJE UNIVERSITEIT BRUSSEL - BELGIUM

UNIVERSITA DEGLI STUDI DI TORINO - ITALY

SITI - ISTITUTO SUPERIORE SUI SISTEMI TERRITORIALI PER L'INNOVAZIONE - ITALY

UNIVERZITA PAVLA JOZEFA SAFARIKA V KOSICIACH, P.J. ŠAFÁRIK UNIVERSITY IN KOŠICE - SLOVAKIA

ST. MICHAEL'S HOSPITAL ASSOCIATION - CANADA

CARITAS DIOCESANA DE BARCELONA - SPAIN

MITTUNIVERSITETET - SWEDEN

UNIVERSITY OF EAST ANGLIA - UNITED KINGDOM

Project Description: The need to deal with health inequalities is now part of the agenda of key supranational institutions, such as the European Commission (EC). To tackle the so-called causes of the causes of health inequity, the focus should be put on structural policies, policies that influence patterns of social stratification, living and working conditions, and thus people's health especially at the present time of financial and employment crisis. The SOPHIE project aims to generate new evidence on the impact and effectiveness of structural policies in reducing health inequalities, and to develop innovative methodologies for the evaluation of these policies in Europe.

Project Objectives: The project studies major policy areas, including macro-economy, welfare state, labour market and employment relations, built environment, housing, as well as gender-oriented and immigration-related policies. Examples of these policies at the European, national and local levels will be examined, in addition to their impacts on health inequalities by social class, gender and migrant status. The project will develop theoretical frameworks as well as quantitative and qualitative methods for evaluating the effectiveness of such policies in different contexts. Novel methods that are useful for evaluating the impact of complex social interventions will be employed, including

realist reviews, explanatory case studies and concept mapping. Particular attention will be given to increasing the involvement of affected stakeholders (civil society and deprived population groups) in the identification, design and evaluation of policies to tackle health inequalities. Affected communities and stakeholders will work with responsible policymakers in activities of dissemination of results, knowledge transfer and translation of findings into policy recommendations.

Through SOPHIE, the EC will gain knowledge on the impact on health and health inequalities of social and economic policies which may be implemented or recommended to Member States.

Profile of Slovak Participant/ -s: The Community and Health Research Network CoHeReNT was established within the Health Psychology department - Institute of Public Health at the Medical Faculty of the P.J. Šafárik University in Košice, Slovakia, in order to cover the increasingly wider cooperation with experts from different institutions, to enable flexible responses to the research needs and at the same time ensure easy identification of members of this research network. CoHeReNT comprises of a group of experts that focus on various social aspects of health. It covers a variety of projects related to the quality of life and risk behaviours of school-aged children, youth and adults, social and socio-economic determinants of health as well as broad research of vulnerable groups.

SK Participant Project Cost: EUR 181 810.53

SK Participant EC Financial Contribution: EUR 140 334.92

Project Outcomes planned/real: Health inequalities are unfair and avoidable differences in health between population groups defined socially, economically, demographically or geographically. They are strongly affected by the circumstances in which people are born, grow, live, work and age, and by the policies influencing these circumstances.



SOPHIE aims to generate new evidence on the impact of structural policies on health inequalities, and to develop innovative methodologies for the evaluation of these policies in Europe.

Particular attention will be devoted to increasing the involvement of affected stakeholders (civil society and deprived population groups) in the identification, design and evaluation of policies to tackle health inequalities.

Slovak Participant's Role in Project: CoHeReNT staff is responsible for Work Package 7 (Cross-cutting approaches for fostering change: participation, knowledge transfer, and agenda setting). They also participate in country case studies on welfare and employment, and in the planning and delivery of dissemination activities (WP9).

TRANSCAN

Project ID: 266559

Project Title: ERA-NET on Translational Cancer Research

Project website: <http://www.transcanfp7.eu/transcan/index.php>

Project Start Date: 2011-01-01

Project End Date: 2014-12-31

Project Total Cost: EUR 2 340 845

Project EC Financial Contribution: EUR 1 999 956

Slovak participant Name: SLOVENSKA AKADEMIA VIED, Slovak Academy of Sciences

Slovak participant address: Stefanikova, 49, 814 38 BRATISLAVA

Contact person: Mr. Jan Barancik, email/ phone: barancik@up.upsav.sk,
+421 2 57510137

Partners of the Consortium:

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BUNDESMINISTERIUM FUER BILDUNG UND FORSCHUNG - GERMANY

FUNDAÇÃO PARA A CIÊNCIA E A TECNOLOGIA - PORTUGAL

ALLEANZA CONTRO IL CANCRO - ITALY

ISTITUTO SUPERIORE DI SANITA - ITALY

GENIKI GRAMMATIA EREVNAS KAI TECHNOLOGIAS, YPOURGIO PAIDIAS, DIA VIΟΥ
MATHISIS & THRSISKEVMATON - GREECE

NORGES FORSKNINGSRAD - NORWAY

FONDS ZUR FÖRDERUNG DER WISSENSCHAFTLICHEN FORSCHUNG - AUSTRIA

MINISTRY OF HEALTH - ISRAEL

CANCER RESEARCH UK - UNITED KINGDOM

REGIONE LIGURIA - ITALY

INSTITUT NATIONAL DU CANCER - FRANCE

MINISTERO DELL'ISTRUZIONE, DELL'UNIVERSITA' E DELLA RICERCA - ITALY

NARODOWE CENTRUM BADAN I ROZWOJU - POLAND

MINISTRSTVO ZA VISOKO SOLSTVO, ZNANOST IN TEHNOLOGIJO - SLOVENIA

THE NETHERLANDS ORGANISATION FOR HEALTH RESEARCH AND DEVELOPMENT -
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INSTITUTO DE SALUD CARLOS III - SPAIN

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MASARYKUV ONKOLOGICKY USTAV - CZECH REPUBLIC

LATVIJAS ZINATNU AKADEMIJA - LATVIA

TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY

DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV - GERMANY

ORSZAGOS ONKOLOGIAI INTEZET - HUNGARY

Project Description: Cancer is a worldwide health burden and a major public health challenge in Europe, responsible for 25% of all deaths; a situation expected to worsen with population ageing. The strengthening of translational cancer research is an urgent need in European cancer research, i.e. the integration of basic, epidemiological, preclinical and clinical research with the implementation and evaluation of interventions in prevention, diagnosis, prognosis, treatment and care.

Project Objectives: The objectives of TRANSCAN will be achieved through interconnected activities, structured into six work packages (WP) and facilitated by the project coordination and management (WP1). A survey and analysis of national cancer research funding (WP2) will provide a comprehensive picture of the nature and extent of translational cancer research funding in the EU. Based on this knowledge, TRANSCAN will identify gaps in and opportunities for coordinated translational research, and will thus contribute to the development of a coordinated funding research policy shared by European countries. Based also on the outcome of these activities, three joint transnational calls for multinational translational cancer research programmes will be designed (WP3) and implemented (WP4). In this context, training programmes/ activities of multi-disciplinary translational cancer research teams will be supported (WP5). The TRANSCAN performance will be monitored and confronted with the partners' expectations, and a sustainability plan for the network beyond TRANSCAN will be elaborated (WP6), contributing to the building of a pan-European platform for translational cancer research.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 30 165.6

SK Participant EC Financial Contribution: EUR 26 897

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

**1. Specific programme
COOPERATION**

*1.2 Food, Agriculture
and Fisheries, Biotechnology*



AGFOODTRADE

Project ID: 212036

Project Title: NEW ISSUES IN AGRICULTURAL, FOOD AND BIOENERGY TRADE.

Project website: <http://agfoodtrade.vitamib.com/>

Project Start Date: 2008-05-01

Project End Date: 2011-09-30

Project Total Cost: EUR 3 738 288.15

Project EC Financial Contribution: EUR 2 866 478

Slovak participant Name: SLOVAK AGRICULTURAL UNIVERSITY IN NITRA

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Partners of the Consortium: Institut National de la Recherche Agronomique, France

University of Copenhagen - Dánsko

Università degli Studi del Molise - Italy

Trinity College Dublin - Ireland

International Food policy Research Institute - USA

Wyższa Szkoła Ekonomiczna w Białymstoku - Poland

Institut Sénégalais de Recherches Agricoles - Senegal

Institute for Prospective Technological Studies - Belgium

Centre d'Informations et de Recherches sur l'Economie Mondiale - France

VITAMIB SAS - France

Università della Calabria - Italy

Project Description: The project focuses on methodological development in areas that raise problems for modelers and analysts. This includes, in particular, the linkage between EU agricultural policy and world market; the role of new demands for food, feed and fuel on the agricultural sector, and issues that still raise methodological difficulties such as the role of transnational firms, the impact of trade liberalization on price volatility, etc. The project intends to provide applied analyses helpful to decision makers and trade negotiators.

Project Objectives: International trade in food commodities reflects the interaction of complex dynamic processes driven by demographic, socio-economic, technological and political changes. Therefore, future evolution of world markets is highly uncertain. The purpose of this project is to build on existing knowledge, data, and modelling instruments to address issues of relevance to international trade and trade negotiations. It focuses on methodological development in areas that raise problems for modelers and analysts. This includes, in particular, the linkage between EU agricultural policy and world market; the role of new demands for food, feed and fuel on the agricultural sector. It also addresses other issues that still raise methodological difficulties such as the role of trans-national firms or the impact of trade liberalization on price volatility intending to provide applied analyses helpful to decision makers and trade negotiators.

The project builds on past research but emphasizes issues usually overlooked by standard assessments of trade liberalization. These include the impact of demand from energy markets which could affect agriculture and reverse the decline of real farm product prices; the demographic changes, which in some developing and transition countries modify the demand for food, especially that for industrial food processing; the concentration of firms in many global markets, which could modify the expected size and distribution of gains from trade liberalization among stakeholders; the impact of trade liberalization on price volatility, which is a key concern but remains to be thoroughly evaluated and the the growing importance of sanitary and technical measures and their potential impact on food security, health issues, and trade.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 119 331.2

SK Participant EC Financial Contribution: EUR 89 648

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

AGRIPOLICY

Project ID: 211760

Project Title: Enlargement Network for Agripolicy Analysis

Project website: <http://www.europartnersearch.net/agripolicy/>

Project Start Date: 2008-06-01

Project End Date: 2010-05-31

Project Total Cost: EUR 1 141 128.28

Project EC Financial Contribution: EUR 998 219

Slovak participant Name: Research Institute of Agricultural and Food Economics

Slovak participant address: Trenčianska 55, 824 80 Bratislava

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LATVIAN STATE INSTITUTE OF AGRARIAN ECONOMICS - LATVIA

FACULTY OF AGRICULTURE AND FOOD SCIENCE SARAJEVO - BOSNIA AND HERZEGOVINA

SS. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE - THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA

ÚSTAV ZEMĚDELSKÉ EKONOMIKY A INFORMACÍ - CZECH REPUBLIC

STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK - NEDERLAND

UNIVERSITY OF PLOVDIV - BULGARIA

BUDAPESTI CORVINUS EGYETEM - HUNGARY

EESTI MAAILIKOOL - ESTONIA

COSTAS PETRIDES AND ASSOCIATES LIMITED - CYPRUS

INSTITUT EKONOMIKI ROLNICTVA I GOSPODARKI ZYWNOSCIOWEJ - POLAND

THE UNIVERSITY OF EXETER - UK

SVEUCILISTE U ZAGREBU AGRONOMSKI FAKULTET - CROATIA

FACULTY OF AGRICULTURE - UNIVERSITY OF BELGRADE - SERBIA

KMETIJSKI INSTITUT SLOVENIJE - SLOVENIA

JAVNA USTANOVA UNIVERZITET CRNE GORE PODGORICA - MONTENEGRO

LIETUVOS AGRARINES EKONOMIKOS INSTITUTAS - LITHUANIA

UNIVERSITATEA BABES BOLYAI - ROMANIA

LEIBNIZ INSTITUT FUER AGRARENTWICKLUNG IN MITTEL- AND OSTEUROPA - GERMANY

UNIVERSITY OF CUKUROVA - TURKEY

Project Description: In the view of the integration of new Member States, strengthening the accession process for the remaining Candidate Countries and the closer co-operation with other candidate and pre-candidate countries, notably of the Western Balkans, it is important to establish and combine insight into and analyses of agricultural developments in the different countries. It is important to include all relevant countries (i.e. Malta, the Former Yugoslav Republic of Macedonia, Albania, Serbia (including Kosovo under United Nations Security Council Resolution 1244) and Montenegro). The area of expertise and analyses on the individual countries should cover agricultural policies, agricultural markets and food chains, the competitiveness of agro-food products and farms including structural change, the developments of trade and trade relations, as well as developments of rural economies and regions including socio-economic conditions and rural labour markets and agro-environmental situations. Since the agricultural, economic and socio-economic conditions vary significantly among the countries a thorough and a wide expertise needs to be established by the individual countries as does the capacity to achieve a regional and a European perspective in the different analyses.

Project Objectives: The project will provide the analytical tools to increase the effectiveness of EC measures in support of agriculture and rural development within the accession process and the new neighbourhood policy.

Profile of Slovak Participant/ -s: Research Institute of Agricultural and Food Economics (VUEPP) is the only specialized research workplace focused on analysing and examining economic issues of the agriculture and food industries, the economic and social policy of agricultural/ food complex, the land market and the rural development in Slovakia. The institute prepares conceptual materials, projects, makes proposals, and provides methodological instructions for strategic decisions and agricultural policies implementation for the sake of state administration. It gathers, manages, analyses and disseminates its own statistical databases from a selected sample of farms and food manufacturers.

SK Participant Project Cost: EUR 27 360

SK Participant EC Financial Contribution: EUR 24 396

Project Outcomes planned/real: a) Assessment of the Competitiveness of Dairy Food Chain in Slovak Republic, b) Analysis of Renewable Energy and its Impact on Rural Development in Slovak Republic, c) Green Paper Consultation on Agricultural Product Quality Policy in Slovak Republic, d) Monitoring Agro-Policy Implementation in the New Member States.

Slovak Participant's Role in Project: Key objectives: a) collecting quantitative data and qualitative information in order to provide analysis, appraisal and assessment of selected food sectors for policymakers, b) stimulation of networking and sharing information among agricultural economists from new Member states and candidate countries, c) strengthening analytical capacities in the field of agricultural policies evaluation and foresight analysis.

AMIGA

Project ID: 289706
 Project Title: Assessing and Monitoring the Impacts of Genetically modified plants on Agro-ecosystems
 Project website: <http://www.amigaproject.eu/>
 Project Start Date: 2011-12-01
 Project End Date: 2015-11-30
 Project Total Cost: EUR 7 779 852.15
 Project EC Financial Contribution: EUR 5 997 963
 Slovak participant Name: SLOVAK AGRICULTURAL UNIVERSITY IN NITRA
 Slovak participant address: Tr. A. Hlinku 2, 949 76 Nitra
 Contact person: Prof. Ludovit Cagan, email/ phone: Ludovit.Cagan@gmail.com, +421376414253

Partners of the Consortium:

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 INSTITUTO NACIONAL DE TECNOLOGIA AGROPECUARIA – ARGENTINA
 UMWELTBUNDESAMT GMBH – AUSTRIA
 JOHANN HEINRICH VON THUENEN-INSTITUT, BUNDESFORSCHUNGSINSTITUT FUER LANDLICHE RAUME, WALD UND FISCHEREI – GERMANY
 INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE – FRANCE
 TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY - ÉIRE/IRELAND
 STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK – NETHERLANDS
 JULIUS-MAXIMILIANS UNIVERSITAET WUERZBURG – GERMANY
 WAGENINGEN UNIVERSITEIT – NETHERLANDS
 GEOSYS SA – FRANCE
 MINERVA CONSULTING & COMMUNICATION - BELGIUM
 INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU STIINTE BIOLOGICE RA – ROMANIA
 AGROBIOINSTITUTE – BULGARIA
 ALMA MATER STUDIORUM-UNIVERSITA DI BOLOGNA – ITALY
 INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA – SPAIN
 AARHUS UNIVERSITET – DENMARK
 THE JAMES HUTTON INSTITUTE LBG - UNITED KINGDOM
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 ANDREAS LANG – GERMANY
 HELSINGIN YLIOPISTO - SUOMI/FINLAND
 THE UNIVERSITY OF READING - UNITED KINGDOM
 LUNDS UNIVERSITET - SWEDEN

Project Description: A project's cornerstone is the application of the EFSA ERA Guidelines, which is the basis for the update of the regulatory process of GMPs in the EU. The Guideline has provided ecologically sound principles for ERA, triggering the need of practically testing them. Partners of the consortium participated to the preparation of guidelines and 3 of them are senior authors of relevant chapters. The scientific activities will consist of case studies of maize and potato, the two GM crops currently approved for cultivation in the EU, and surveys in non-GM agro-ecosystems. The final outcome will include a network of EU representative sites for pre-market risk assessment and long-term monitoring studies, a set of standardised testing methods and a geographical information system integrating relevant datasets, protocols and tools to help EU decision-makers.

Project Objectives: AMIGA's main objectives include: providing baseline data on biodiversity in agro-eco-systems in the EU; translating regional protection goals in measurable assessment endpoints; defining lists of suitable bioindicators suitable for various European regions; improving knowledge on potential long term environmental effects of genetically modified plants (GMPs); testing the efficiency of EFSA Guidance Document for the Environmental Risk Assessment (ERA); exploring new strategies for post market monitoring; estimating the compatibility of GMPs with the Integrated Pest Management (IPM) principles implemented in the EU; providing a systematic analysis of economical aspects of GMPs cultivation in the EU; setting a training and communication plan addressing public concerns about GMPs

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 237 600

SK Participant EC Financial Contribution: EUR 182 200

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ARANGE

Project ID: 289437
 Project Title: Advanced multifunctional forest management in European mountain ranges
 Project website: <http://www.arange-project.eu/>
 Project Start Date: 2012-02-01
 Project End Date: 2015-01-31
 Project Total Cost: EUR 3 802 775.8
 Project EC Financial Contribution: EUR 2 991 077
 Slovak participant Name: National Forest Centre
 Slovak participant address: ULICA T. G. MASARYKA 22, 960 92 ZVOLEN
 Contact person email/ phone: Dr. Zuzana Sarvašová, e-mail: sarvasova@nlcsk.org, phone: + 421 45 5314124

Partners of the Consortium:

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 UNIVERZA V LJUBLJANI - SLOVENIA
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 TECHNISCHE UNIVERSITAET MUENCHEN - GERMANY
 ARANZADA GESTION FORESTAL SLP - SPAIN
 NARODNE LESNICKE CENTRUM, NATIONAL FOREST CENTRE - SLOVAKIA
 GEOEXPERT RESEARCH AND PLANNING GMBH - AUSTRIA
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 EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZURICH - SWITZERLAND
 IFER - USTAV PRO VYZKUM LESNICH EKOSYSTEMU, S.R.O. - CZECH REPUBLIC
 STICHTING BIRDLIFE EUROPE - NETHERLANDS
 SVERIGES LANTBRUKSUNIVERSITET - SWEDEN
 INSTITUT NATIONAL DE RECHERCHE EN SCIENCES ET TECHNOLOGIES POUR L'ENVIRONNEMENT ET L'AGRICULTURE - FRANCE
 INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA - SPAIN
 EUROPEAN FOREST INSTITUTE - SUOMI/FINLAND
 INSTITUT ZA GORATA – BAN - BULGARIA

Project Description: The project "Advanced multifunctional forest management in European mountain RANGES" (ARANGE) will evaluate the capacity of current forest management regimes and possible alternative future management to provide portfolios of ecosystem services (ES) from mountain forests. The project includes a wide range of forest types in the major European mountain ranges and seeks to develop and evaluate strategies for their multifunctional management under risk and uncertainty due to the changing climate and socio-economic conditions.

To analyse conflicts and complementarities among ES from stand to landscape scale, improved models for the assessment and projection of ES as well as novel planning and decision support tools will be developed together with SMEs and applied to regional case studies as informed by decision makers and other stakeholders in the study regions.

Project Objectives: The overall aims of ARANGE are:

- to investigate the potentials and limitations of current and possible future approaches to mountain forest management for providing portfolios of ES under current and future climatic and socio-economic conditions;
- to identify related risks and uncertainties;
- to translate the scientific state of knowledge about the efficient provision of multiple ES from mountain forests into

decision support for policy makers and forest practitioners, so as to improve the robustness of planning tools in real-world decision making.

Profile of Slovak Participant/ -s: National forest centre is a semi-budgetary forestry agency established by the SR Ministry of Agriculture on 1 January 2006. The mission of the organization is to protect and expand Slovak's forests and increase their value to society and the environment.

National forest centre aims to take the lead in the development and promotion of sustainable forest management and its implementation in practice. The organization strives to provide forestry practice and to provide forest owners and other stakeholders with new knowledge of forests and practical solutions enhancing stewardship of existing forest resources. In addition, National forest centre supports transfer of appropriate know-how to state and municipal authorities on forestry, nature conservation, environment, rural development and urban planning. The ambition of National forest centre is to provide fully-fledged services relevant to and supporting the strategic priorities and interests of forestry.

SK Participant Project Cost: EUR 204 660

SK Participant EC Financial Contribution: EUR 156 615

Project Outcomes planned/real: The project builds on seven case study regions in major mountain ranges throughout Europe covering a wide range of forest types, socio-economic conditions and cultural contexts and seeks to develop and evaluate strategies for their multifunctional management considering risks and uncertainty due to changing climatic and socio-economic conditions. The project addresses four main ES: timber production, protection against gravitational natural hazards, the role of forests in climate change mitigation via carbon sequestration as well as bio-energy production, and nature conservation and the maintenance of biodiversity. Non-timber forest products, recreation as well as the use of forested landscapes by game and livestock species will be dealt with as well. One of the objectives is also to analyse conflicts and complementarities among ES from stand to landscape scales, improved models for the assessment and projection of ecosystem services as well as novel planning and decision support tools will be developed together with SMEs and applied in the case study regions. Stakeholder panels in all study regions will inform research activities and contribute to the development of improved mountain forest management approaches. SME partners play a key role in the development of new planning tools. ARANGE will translate project findings on the efficient provision of multiple ES from mountain forests into decision support for policy makers and forest practitioners, so as to improve the strength of planning tools in real-world decision making.

Slovak Participant's Role in Project:

- to analyze policies affecting mountain forest management in order to identify drivers and pressures of forest management and the provision of ecosystem services;
- to map public and private governance systems in the case study regions and to (and to compare them) them in order to understand current decision making procedures and to address the various stakeholder interests.

Dr. Tomáš Hlásny and Dr. Ivan Barka:

- set up and test models of forest dynamics for the case study area Kozie Chrby,
- Business As Usual (BAU) simulations at stand level in CSA Kozie chrby.

AWARE

Project ID: 265686

Project Title: Animal Welfare Research in an enlarged Europe

Project website: <http://www.aware-welfare.eu/aware>

Project Start Date: 2011-03-01

Project End Date: 2014-02-28

Project Total Cost: EUR 1 157 610

Project EC Financial Contribution: EUR 999 927

SLOVAK PARTICIPANT 1

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SLOVAK PARTICIPANT 2

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EESTI MAULIKOOL - EESTI

ATATURK UNIVERSITY - TURKEY

INSTYTUT GENETYKI I HODOWLI ZWIERZAT POLSKIEJ AKADEMII NAUK - POLSKA

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE - FRANCE

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SS. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE - THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA

UNIVERSITY OF ZAGREB-FACULTY OF VETERINARY MEDICINE - Hrvatska

UNIVERSITAET FUER BODENKULTUR WIEN - ÖSTERREICH

SVERIGES LANTBRUKSUNIVERSITET - SVERIGE

PANEPISTIMIO THESSALIAS (UNIVERSITY OF THESSALY) - HELLAS

Project Description: The goal of AWARE is to promote integration and increase the impact of European research on farm animal welfare (FAW). It will do so through the development of Europe-wide networks of scientists, lecturers and students, and by establishing a network of stakeholders active in FAW knowledge transfer and implementation.

Project Objectives: AWARE is organised into 3 mutually supportive Work Packages (WPs). WP A 'Research' will enhance the integration of FAW research by fostering collaboration based on mutual recognition and by enhancing networking and proposal writing skills in motivated researchers throughout the enlarged Europe. WP B 'Education' will promote cross-fertilisation in FAW university education, thus enhancing opportunities for young scientists in new and candidate countries to start research in FAW. WP C 'Awareness and Implementation' focuses on enhancing public awareness, promoting implementation of EU policies, and facilitating an uptake of FAW research. All 3 Work Packages proceed in 4 steps: 1. Mapping, 2. Establishing networks, 3. Improving skills

and 4. Developing strategies for ongoing integration. Three horizontal activities support the WP's: a Mobility Desk facilitates mobility of researchers and students; the Communication module supports internal and external communication; and Management takes care of project management and effective communication with the Commission.

AWARE increases the European research capacity in FAW activities, through integrating the underutilized human and knowledge potential in the new and candidate countries. The project will result in faster and more comprehensive FAW knowledge transfer across Europe. It will also build for the future by drawing young scientists into FAW research and providing a base for harmonized implementation of FAW legislation in the enlarged EU.



SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: The Slovak University of Agriculture (SUA) is the only agriculture orientated higher educational institution in Slovakia offered. SUA main areas of education, research and extension are agro-biology, feed stuff (raw materials and processing), bio-technology, farm economy, rural development, environmental protection, landscape creation and engineering. Approximately 480 (60 professors, 120 associated professors and 300 on PhD level) highly qualified members of staff are involved in research and educational process. More than a 10000 students study there at present. The SUA is extensively experienced as far as international co-operation within education and research is concerned.

SK Participant Project Cost: EUR 134 160

SK Participant EC Financial Contribution: EUR 119 626

Project Outcomes planned/real: The goal of AWARE was to promote integration and to increase the impact of European research on farm animal welfare (FAW). It was done through the development of Europe-wide networks of scientists, lecturers and students, and by establishing a network of stakeholders active in FAW knowledge transfer and implementation. AWARE actions were organised into 3 mutually supportive Work Packages (WPs). WP A "Research" enhanced the integration of FAW research by fostering collaboration based on mutual recognition and by enhancing networking and proposal writing skills in motivated researchers throughout the enlarged Europe. WP B "Education" promoted cross-fertilisation in FAW university education, thus enhancing opportunities for young scientists in the new and candidate countries to start carrying out a research in FAW. WP C "Awareness and Implementation" focused on enhancing public awareness, promoting implementation of EU policies, and facilitating uptake of FAW research. All 3 WPs proceeded in 4 steps: 1. Mapping, 2.

Establishing networks, 3. Improving skills and 4. Developing strategies for ongoing integration. Three horizontal activities supported the WP's: a mobility desk for facilitation of mobility of researchers and students; the communication module for internal and external communication; and project management that took care of project management and effective communication with the Commission. AWARE increased the European research capacity in FAW activities, through integrating the underutilized human and knowledge potential in the new and candidate countries. The project resulted in a faster and more comprehensive FAW knowledge transfer across Europe. It also built for the future by drawing young scientists into FAW research and by providing a base for harmonized implementation of FAW legislation in the enlarged EU. There were 14 partners from 13 European countries involved in the project. However, 113 organisations from 29 European countries in total were involved in the project activities

Slovak Participant's Role in Project: The Slovak University of Agriculture had two main roles in the project: the coordination of the working package 1 "Education" and the regional coordination of the Central-East European region (Slovakia, Poland, Hungary and the Czech Republic) where SUA contributes to all WPs. Besides, SUA created the final database of farm animal welfare researchers and university teachers (WP1 and WP2), organised roadshows in Slovakia and Hungary (WP1 and WP2), organised workshop for research leaders in Bratislava (WP1), organised workshops for project writing training in Brussels and Uppsala (WP 1), organised workshop for FAW teachers training in Bratislava (WP2), organised twinning activity (WP2), presented goals and results of AWARE at the Annual Meeting of the European Federation of Animal Science (EAAP) and contributed to the strategic document about analysing the ways how to facilitate a more balanced approach to farm animal welfare, especially farm animal welfare education, across Europe.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Institute of Animal Biochemistry and Genetics of the Slovak Academy of Sciences is located in Ivanka pri Dunaji. It was established in 1990 from the former branch of the Institute of Animal Physiology SASci Kosice that had existed in Ivanka pri Dunaji since 1969. The Institute has around 50 employees and graduate students working in three research departments: Department of Biochemistry of Bio-membranes, Department of Immunogenetics and Department of Physiology and Ethology. The main focus areas of our research are membranes and their roles in energy transformation, the role of membrane antigens in immunological and reproductive processes, neurobiological and physiological mechanisms controlling behaviour of animals, as well as the application of knowledge about membrane processes in nanotechnology, biotechnology and agriculture. Institute of Animal Biochemistry and Genetics is involved in pre-graduate and graduate studies at two major Slovak universities – Comenius University and Slovak Technical University. Research staff of the IABG is involved in lecture courses, seminars and laboratory courses as well as in the research projects of undergraduate students.

SK Participant Project Cost: EUR 67 200

SK Participant EC Financial Contribution: EUR 59 920

Project Outcomes planned/real: The goal of AWARE was to promote integration and increase the impact of

European research on farm animal welfare (FAW). It was done through the development of Europe-wide networks of scientists, lecturers and students, and by establishing a network of stakeholders active in FAW knowledge transfer and implementation. AWARE actions were organised in 3 mutually supportive Work Packages (WPs). WP A "Research" enhanced the integration of FAW research by fostering collaboration based on mutual recognition and by enhancing networking and proposal writing skills in motivated researchers throughout the enlarged Europe. WP B "Education" promoted cross-fertilisation in FAW university education, thus enhancing opportunities for young scientists in new and candidate countries to start research in FAW. WP C "Awareness and Implementation" focused on enhancing public awareness, promoting implementation of EU policies, and facilitating uptake of FAW research. All 3 WPs proceeded in 4 steps: 1. Mapping, 2. Establishing networks, 3. Improving skills and 4. Developing strategies for ongoing integration. Three horizontal activities supported the WP's: a mobility desk for the facilitation of mobility of researchers and students; the communication module for internal and external communication; and project management that took care of project management and effective communication with the Commission. AWARE increased the European research capacity in FAW activities, through integrating the underutilized human and knowledge potential in the new and candidate countries. The project resulted in faster and more comprehensive FAW knowledge transfer across Europe. It also built for the future by drawing young scientists into FAW research and by providing a base for harmonized implementation of FAW legislation in the enlarged EU. There were 14 partners from 13 European countries involved in the project. However, in total there were 113 organisations from 29 European countries involved in the project activities.

Slovak Participant's Role in Project: The main role of the Institute of Animal Biochemistry and Genetics of the Slovak Academy of Sciences in the AWARE project was the coordination of the working package 1 Research. We were coordinating coordinated the mapping of farm animal welfare research across Europe. Our representatives presented AWARE at the road shows (Slovakia, Poland, Hungary) together with its activities aimed at generating interest in farm animal welfare research and university education. We coordinated the Workshops for research leaders, one in Bratislava (May 2012, for representatives of Baltic and East Central European countries) and one in Athens (October 2012) for researchers from the East and West Balkans. We have participated in the presentation of AWARE goals and results at several international scientific conferences. Together with the International Society for Applied Ethology we have co-organized the first ISAE regional meeting in the Balkan region. We have co-ordinated the preparation of the strategic document about analysing the ways how to facilitate a more balanced approach to farm animal welfare, especially farm animal welfare research, across Europe.



BACCHUS

Project ID: 312090

Project Title: Beneficial effects of dietary bioactive peptides and polyphenols on cardiovascular health in humans

Project website: <http://www.bacchus-fp7.eu/>

Project Start Date: 2012-10-01

Project End Date: 2016-09-30

Project Total Cost: EUR 7 649 702

Project EC Financial Contribution: EUR 5 999 554

Slovak participant Name: PAMIDA INTERNATIONAL S.R.O.

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CRITICAL PROCESSES LTD - UNITED KINGDOM

INSTITUT ZA MEDICINSKA ISTRA IVANJA - SERBIA

EUROPEAN FOOD INFORMATION RESSOURCE AISBL - BELGIQUE-BELGIË

INDUSTRIAS CARNICAS VAQUERO - ESPAÑA

VALDYCOMER SA - ESPAÑA

VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V. - BELGIQUE-BELGIË

ALMA MATER STUDIORUM-UNIVERSITA DI BOLOGNA - ITALIA

BIOAESIS SRL - ITALIA

CORESENCE LIMITED - UNITED KINGDOM

HELSINGIN YLIOPISTO - SUOMI/FINLAND

TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY

LABORATORIOS ADMIRA SL - ESPAÑA

AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS - ESPAÑA

WAGRALIM ASBL - BELGIQUE-BELGIË

FUNDACION UNIVERSITARIA SAN ANTONIO DE CARTAGENA - ESPAÑA

BRITISH NUTRITION FOUNDATION - UNITED KINGDOM

NOFIMA AS - NORGE

KAMUT ENTERPRISES OF EUROPE BVBA - BELGIQUE-BELGIË

BIOACTOR BV - NEDERLAND

PRODIGEST - BELGIQUE-BELGIË

CREME SOFTWARE LTD - ÉIRE/IRELAND

LGC LIMITED - UNITED KINGDOM

NUTRIKA DOO - SERBIA

UNIVERSITEIT GENT - BELGIQUE-BELGIË

Project Description: In past years, we saw a growing occurrence of cardiovascular diseases (CVD), which currently are responsible for 47 % of deaths in Europe. As demonstrated by the ever growing healthcare costs, which are currently ca. EUR 195 billion (£157 bn) in total, measures to reverse this trend are essential.

It is essential to focus on developing solutions such as improved dietary habits including increased consumption of foods containing bioactive substances purported to be beneficial for the cardiovascular system. 'Beneficial effects of dietary bioactive peptides and polyphenols on cardiovascular health in humans' (BACCHUS) will develop resources facilitating the generation of robust and CORRECTand exploitable scientific evidence that supports a cause-and-effect relationship between the consumption of bioactive peptides and polyphenols, and beneficial physiological effects related to cardiovascular health in humans (e.g. reducing high blood pressure). BACCHUS will also support European SMEs creating new food products, which boost cardiovascular health, with scientific evidence and tools essential for health claims dossiers seeking a favourable opinion from EFSA.

Project Objectives: The main objective of the BACCHUS project is to develop tools and resources that will facilitate the generation of robust and exploitable scientific evidence that can be used to support claims of a cause and effect relationship between consumption of bioactive peptides and polyphenols, and beneficial physiological effects related to cardiovascular health in humans. To achieve this, the BACCHUS consortium has assembled 12 leading Research and Technological centres and 15 Small and Medium Enterprises (SME) (with ca 30 % of the EC requested contribution allocated to the SMEs).

BACCHUS thus contains SMEs directly involved in developing food products and pursuing health claims, experts in health claims legislation and the EFSA review process, and academic and industry partners who provide high quality food and health research that can underpin health claims. Existing SME-developed products that have a clear potential for obtaining favourable opinions for health claims have been selected as test cases for the study. These have been aligned with a series of work-packages each of which addresses key aspects of the EFSA health claim evaluation process (legislation and dossiers; product/ bioactive characterisation; habitual intakes; bioavailability; mechanisms and biomarkers; clinical trials evidence of health benefit) that will deliver tools, processes and a high quality original science.

Scientific results and best practice guidelines will be made publically available and thus support future claims for industry. The scope and completeness of the existing bioactive database (eBASIS) that includes both compositional and biological effects data will be extended and developed as a sustainable tool with various training materials. All outcomes will be disseminated broadly by direct engagement with SMEs via an existing European SME association, with stakeholders via seminars, newsletters and press releases, as well as through traditional scientific routes (high quality publications, and conference presentations).

Profile of Slovak Participant/ -s: PAMIDA International Ltd. is a professional disseminator of scientific achievements within the field of life, medical and technical sciences. It is the company's mission to enable cross-border and international co-operation and communication between

scientific institutions, individual scientists and stakeholders in order to accelerate implementation of innovations, knowledge and technology transfer, facilitate international co-operation and disseminate new scientific insights to the professional and general public by on-line tools, off-line media and international scientific conferences, symposia, meetings and press-conferences. The conferences, symposia and the matchmaking events serve as hubs for current findings and hereby accelerate the implementation of innovations, knowledge transfer, they facilitate new co-operations between policy makers, stakeholder groups, scientists, research institutes, universities and industry.

PAMIDA International excels in the communication of scientific achievements and new product development to the public in order to reach quickly a critical mass of attention and interest, and to significantly reduce time for commercial use of newly developed products or innovations.

PAMIDA International has an internationally experienced leadership and staff that is able to formulate and execute communication strategies targeting the relevant stakeholders of appropriate policy makers, academic, scientific or public groups.

PAMIDA Internationals conference management services aim to provide efficient meetings, where specific stakeholder groups can concentrate on knowledge exchange and networking.

PAMIDA International disseminates scientific achievements also through its long-term media partners, international peer-reviewed scientific journals and industry publications.

Each of the conference contributions were have been published in official conference proceedings and selected papers have been published in international peer-reviewed scientific journals listed in Current Contents.

SK Participant Project Cost: EUR 244 372.8

SK Participant EC Financial Contribution: EUR 235 855

Project Outcomes planned/real: The main objective of the Bacchus project is to develop tools and resources that will facilitate the generation of robust and exploitable scientific evidence that can be used to support claims of a cause and effect relationship between consumption of bioactive peptides and polyphenols and beneficial physiological effects related to cardiovascular health in humans. Scientific results and best practice guidelines will be made publicly available and will thus support future claims for industry. Outcomes of the PAMIDA organisation: Dissemination and stakeholder engagement plan with results; project flyer; project leaflets; report on BACCHUS publications; report on training activities.

Slovak Participant's Role in Project: Coordination of the content and news for the public side of the website based on scientific and technical content from other beneficiaries; Develop design of project flyer and dissemination materials and their delivery with the support of the DC, the overall design and strategy; Establishing and integrating a BACCHUS corporate design for all dissemination materials and other outputs; Preparing an updated postal, press, regional and supra-regional mailing list for each event; Preparing a media kit; Identifying opportunities to contribute to media releases, articles, journals and generate ad hoc press releases for off-line and on-line media; Developing a stakeholder group; Develop supporting printed and electronic promotional material, e.g. posters, flyers and brochures, roll-up displays, project logo and PowerPoint slides; PAMIDA will be in charge of organising events with other project beneficiaries as appropriate, including aligning with the IFR Food and Health Network.

BEE DOC

Project ID: 244956

Project Title: BEES IN EUROPE AND THE DECLINE OF HONEYBEE COLONIES

Project website: <http://www.bee-doc.eu/>

Project Start Date: 2010-03-01

Project End Date: 2013-02-28

Project Total Cost: EUR 4 033 875.8

Project EC Financial Contribution: EUR 2 992 577

Slovak participant Name: USTAV MOLEKULARNEJ BIOLOGIE SLOVENSKEJ AKADEMIE VIED, Institute of Molecular Biology SAS, Department of Molecular Apidology of Slovak Academy of Sciences

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INSTITUTE OF ORGANIC CHEMISTRY WITH CENTRE OF PHYTOCHEMISTRY - BULGARIAN ACADEMY OF SCIENCES - BULGARIA

UNIVERSITEIT GENT - BELGIUM

USTAV MOLEKULARNEJ BIOLOGIE SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF MOLECULAR BIOLOGY SAS- SLOVAKIA

Project Description: The BEE DOC comprises a network of eleven partners from honeybee pathology, chemistry, genetics and apicultural extension aiming to improve colony health of honeybees.

The BEE DOC empirically and experimentally fills knowledge gaps in honeybee pests and diseases, including the 'colony collapse disorder' and quantifies the impact of interactions between parasites, pathogens and pesticides on honeybee mortality. Specifically, BEE DOC will show how interactions affect individual bees and colonies in different European areas in the case of two model parasites (Nosema and Varroa mites), three model viruses (Deformed Wing Virus, Black Queen Cell Virus, Israel Acute Paralysis Virus) and two model pesticides (thiacloprid, t-fluvalinate). The BEE DOC will use transcriptome analyses to explore host-pathogen-pesticide interactions and to identify novel genes for disease resistance.

Project Objectives: The BEE DOC specifically addresses sublethal and chronic exposure to pesticides and screen how apicultural practices affect colony health. The BEE DOC develops novel diagnostic screening methods and it also develops sustainable concepts for disease prevention using novel treatments and selection tools for resistant stock. The BEE DOC is linked to various national and international ongoing European, North- and South-American colony health monitoring and research programs, which will not

only ensure pan-European but also global visibility and the transfer of results to apicultural practice in the world community of beekeepers.

Profile of Slovak Participant/ -s: Department of Molecular Apidology long-term experience in the research of antimicrobial and physiologically active proteins and peptides of honeybee origin with the aim of their application in human medicine and in prevention of honeybee colony against diseases. Apis mellifera is used as a model to elucidate the mechanisms governing the antimicrobial defensive system based on nutrition. Honeybee royal jelly (RJ) proteins and peptides can participate in the defence of the honeybee against microbial pathogens through their direct inactivation in honeybee products as well as through the induction of cytokines participating in the regulation of expression of defensive proteins. This is now generally accepted in apidology as a phenomenon of the polyfunctionality of RJ proteins.



SK Participant Project Cost: EUR 112 920

SK Participant EC Financial Contribution: EUR 84 690

Project Outcomes planned/real: For the production of antimicrobial royal jelly, peptides apisimin (54 aa residues) and honeybee defensin-royalysin (52 aa residues), as potential tools for prevention of honeybee colony against microbial pathogens, were prepared in a recombinant form. The appropriate cDNAs were cloned in several expression vectors. The optimal conditions for heterologous expression in E. coli were determined. The recombinant peptides were purified and preliminarily tested for antimicrobial activity against five P. larvae strains with different degree of virulence, as well as new propolis compounds prepared by the project partner - BAS (Sofia, Bulgaria). The most active recombinant peptides were prepared in large scale in cooperation with the project partner - UGENT (Ghent, Belgium) and they were prepared for efficacy tests for pathogen control at honeybee colony level by the project partner - SLU (Uppsala, Sweden).

Slovak Participant's Role in Project: Treatment with honeybee peptides. The task was to prepare the antimicrobial and antifungal royal jelly peptides apisimin and royalysin, using recombinant DNA techniques, as leader peptides for the testing of the role of other peptide antibiotics in the prophylaxis of honeybee infections. The effective inhibition concentration of both peptides is in the micromolar range, similar to a classical antibiotic. The antimicrobial properties was planned to be tested on various pathogens. According to the results of laboratory tests, the recombinant peptides had to be prepared in preparative amount for colony level experiments.

BIOCONCEPT

Project ID: 289194

Project Title: Integration of Bio-Conversion and Separation Technology for the production and application of platform chemicals from 2nd generation biomass

Project website: <http://www.bioconcept.eu>

Project Start Date: 2012-01-01

Project End Date: 2015-12-31

Project Total Cost: EUR 13 386 927

Project EC Financial Contribution: EUR 8 888 371

SLOVAK PARTICIPANT 1

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SLOVAK PARTICIPANT 2

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VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V. - BELGIUM

FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY

FLUOR BV - NETHERLANDS

TYGRON SERIOUS GAMING BV - NETHERLANDS

APPLIKON BIOTECHNOLOGY BV - NETHERLANDS

INGENZA LIMITED - UNITED KINGDOM

PROVIRON HOLDING NV - BELGIUM

TEKNOLOGIAN TUTKIMUSKESKUS VTT - SUOMI/FINLAND

SUNILEI TECNOLOGIA SOLAR SA - SPAIN

DRACOSA AG - GERMANY

ARQUEBIO SL - SPAIN

ZENA SRO - CZECH REPUBLIC

BIOCHEMIZE SL - SPAIN

RHODIA OPERATIONS - FRANCE

SUD CHEMIE AG - GERMANY

ACONDICIONAMIENTO TARRASENSE ASSOCIACION - SPAIN

GTVT S.R.O.- SLOVAKIA

ARCHER DANIELS MIDLAND EUROPE BV - NETHERLANDS

DR. STEPHEN MATTHEW WEBB - AUSTRIA

NOVAMONT SPA - ITALY

CLEA TECHNOLOGIES BV - NETHERLANDS

WEASTRA SRO- SLOVAKIA

POYRY MANAGEMENT CONSULTING OY - SUOMI/FINLAND

TAMINCO NV - BELGIUM

EUCODIS BIOSCIENCE GMBH - AUSTRIA

EVONIK INDUSTRIES AG - GERMANY

RAINER DR. BUSCH - GERMANY

LUCITE INTERNATIONAL UK LTD* - UNITED KINGDOM

DESIGNER ENERGY LTD - ISRAEL

QNORM QUALITAT I MEDI AMBIENT SL - SPAIN

BIRD ENGINEERING BV - NETHERLANDS

Project Description: BioConSepT aims to produce consumer goods out of biomass, i.e. plant matter, which is not competing with the food chain. Non-edible fats and oils and wood will be the feedstock ("ingredients") of the second- generation biomass process. Additionally, it aims to be 30 % cheaper and 30 % more sustainable than the corresponding chemical routes or the biotechnology processes starting from 1st generation edible feedstock.

Project Objectives: The overall objective is to convince and inspire companies and stakeholders by demonstrating the complete feasibility of an integrated chain approach which is regarded as the basis for the next generation industrial White Biotech processes. This ambition is captured in the following high-level aim. The scientific and technological objectives of BioConSepT are:

- to develop and apply robust enzymes and micro-organisms from 2nd generation biomass to produce 6 platform chemicals;
- to integrate in situ product recovery (ISPR) separation technologies e.g. membrane reactors onto the bioconversion process;
- to investigate the economics and technical feasibility of processing 2nd generation feedstock into platform chemicals for production of intermediate and end-products;
- to validate and demonstrate BioConSepT ISPR technologies within two industrial scale processing plants: lignocelluloses and non-edible oil and fat.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: GTVT s.r.o. is an independent private research and development SME established in 2004. The company is fused in various industrial ecology areas and conducts applied and technological research with a goal to develop innovative technologies, processes and equipment, and provide specialized services for industry and public sectors. The company R&D activities are focused mainly on technologies for wastes and wastewater recycling, waste management, environment protection, hydrometallurgy, biotechnology, bio-fuels and energy production, on-line measurements, electrochemistry and process engineering. GTVT has experiences in the investigation of the phenomena taking place at inorganic-organic mixtures; in particular, physical-chemical processes for recycling of components from various liquid and solid mixtures, detoxification, decontamination, purification and remediation technologies. Beside the common lab practice, GTVT has experience in design, construction and the testing of bench-scale and semi-pilot plants, on-line monitoring systems, data treatment and process modelling.

SK Participant Project Cost: EUR 200 000

SK Participant EC Financial Contribution: EUR 150 000

Project Outcomes planned/real: BioConSept aims to demonstrate the technical flexibility or feasibility of White Biotech processes for the conversion of 2nd generation biomass into platform chemicals, which are 30 % cheaper and 30 % more sustainable than existing chemical routes or 1st generation processes. BioConSept uses lignocellulose and non-edible oils and fats as cheap, abundantly available feedstock, which cannot be used as food. The main achievements expected and real are: (1) to develop the robust enzymes and micro-organisms suited for the more dirty second-generation feedstock; (2) to reduce equipment costs and a number of process steps by the integration of bioconversion and highly selective separation technologies; (3) to facilitate easy integration in the existing production chains by deploying combinations of bio-and chemical conversions and by proving the suitability of the produced platform chemicals for bio-based polymers, resins, plasticizers, solvents and surfactants, and (4) the realisation of the first demonstration of integrated production chains from second-generation feedstock to platform chemicals at industrially relevant scale. The planned and achieved project results reduce the total processing costs and thus improve the competitiveness of the European agro/food and chemical industries. The use of renewable biomass will lead to a significant reduction of Green House gas emissions and a more secure supply of feedstock, energy and water as well as the reduction of waste production.

Slovak Participant's Role in Project: GTVT contribution to the project RTD activities lies in more work packages. Within WP, it is the development of a cost-effective fermentation microbial robust and sustainable process to convert the cheap second-generation biomass fractions into the desired platform chemicals (dicarboxylic acids). Within other WPs, GTVT is focused on the development of in situ product recovery from fermentation and enzymatic/ chemical processes, and purification of the platform chemicals.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 99 776

SK Participant EC Financial Contribution: EUR 74 832

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

BIONEXGEN

Project ID: 266025

Project Title: Developing the Next Generation of Biocatalysts for Industrial Chemical Synthesis

Project website: <http://bionexgen-fp7.eu/>

Project Start Date: 2011-02-01

Project End Date: 2014-01-31

Project Total Cost: EUR 10 639 428

Project EC Financial Contribution: EUR 7 774 883

Slovak participant Name: Slovak Technical University

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Contact person email/ phone: Ing. Martin Rebros, PhD., Phone.: +421 2 59 325 480

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RIJKSUNIVERSITEIT GRONINGEN - NETHERLANDS

KUNGLIGA TEKNISKA HOEGSKOLAN - SWEDEN

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LENTIKAT'S A.S. - CZECH REPUBLIC

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA) - SLOVAKIA

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LEIBNIZ-INSTITUT FUR PFLANZENBIOCHEMIE - GERMANY

CHEMISTRY INNOVATION LIMITED - UNITED KINGDOM

Project Description: BIONEXGEN will develop the next generation of biocatalysts to be used for eco-efficient manufacturing processes in the chemical industry. A collaboration team of industrial and academic partners has identified the key technology fields of amine synthesis, polymers from renewable resources, glycoscience and wider oxidase application as four key areas where the next generation of biocatalysts that will lead to improvements in both economic and environmental performance of the chemical manufacturing industries. This project will enable industry to use renewable resources with reduced greenhouse gas production as compared to their fossil counterparts and deliver biotechnological routes with reduced energy consumption and less toxic wastes compared to conventional chemical processes.

Project Objectives: The project will develop and integrate by chemical steps the biotechnological manufacturing routes for the synthesis of fine and speciality chemicals: amines, oligosaccharides especially and renewable polymer intermediates which are better in terms of eco-efficiency, economic potential, complexity and /or specificity of the synthetic pathways than those currently employed.

Dissemination strategy will enhance the impact of this work through three separate initiatives. Economic viability and eco-efficiency will be evaluated and assessed on a quantitative basis and these results will be published in the scientific literature.

Green chemistry initiatives in the BIONEXGEN project and the FP7 contributions will be presented to the wider public on a project website and through material displays at the museum in Manchester and the Big Saturday event in Manchester Science Week. An overall end of project meeting in Brussels will invite a range of political decision makers and industry leaders to attend and will ensure maximum impact.

The project was devised with a strong involvement of industrial partners, in particular SMEs. This fact strengthened the project and it will and contribute significantly to the ensuring of the application of technology.

This combination with technology will lead to the development of new green chemical manufacturing technology platforms that will be tested for specific targets in the European chemical manufacturing industries and will also be used as case studies for dissemination on a broad front.

Profile of Slovak Participant/ -s: Laboratories of Applied biocatalysis at SUT is a multidisciplinary facility with microbiology, biochemistry and bioengineering developing methods of microbial biomass production technology and environmental biotechnology. Emphasis is laid on the fermentative production of organic acids, lipids, pigments and biotransformation of carbohydrates and the overproduction of secondary metabolites used in pharmaceuticals.



SUT equipment is fully developed for all aspects of fermentation with Novaferm fermentors (biomass cultivation in volume 5, 12, 150 and 400L) with GC (Agilent FID and MS detector) and HPLC (Agilent UV/VIS and RI detectors) for analysis of microbial products and metabolites; lyophilizer, anaerobic chamber Bactron, Isotachophoresis Labeco, (Analysis of acids in cultivation mediums) Thermocycler Eppendorf, PCR machine allows the amplification of required DNA fragments. Ultracentrifuge Hitachi Microfiltration and ultrafiltration unit Chezar High capacity separation of biomass after cultivation, high capacity downstream of proteins; ion-change chromatography; purification and desalting of samples. AKTA FPLC chromatographic system; low pressure chromatography for downstream processing of proteins.

Dr Rebroš has a long-term interest in immobilization of microorganisms and enzymes. Results are currently applied in large scale models and were successfully patented and published. The team has a wide experience in optimizations of fermentations, in the production of primary metabolites, in the scaling up of fermentation processes and in the production of biomass for enzyme isolation. They were involved in several industrial projects focused on both industrial production of biochemical compounds and production of biomass for industrial purposes.

During the last decade their research mainly focused on immobilization of microorganisms and enzymes into PVA (polyvinylalcohol) gel.

SK Participant Project Cost: EUR 409 600

SK Participant EC Financial Contribution: EUR 307 200

Project Outcomes planned/real: The effective cooperation of SUT and the project partners resulted in developing several separate processes, which in the future might be applied in industry.

SUT optimized and scaled up the production of *E. coli* BL21 (DE3) expressing monoamine oxidase MAO-N D5 mutant (developed at the University of Manchester) to laboratory fermenters. Consequently, protocols for the whole cell immobilization of biocatalyst to polyvinyl alcohol were developed together with recommendations regarding the use of immobilized biocatalyst.

Also protocol for MAO crude enzyme extract production was prepared. Protocol for crude MAO immobilization was also developed at SUT.

The co-immobilization of chemical catalyst and combination of chemical catalysis with MAO-N D5 mutant were also intensively studied.

The fungal exoglycosidase α -L-rhamnosidase which was developed at the Czech Academy of Sciences (IMIC) was the next experimental model at SUT for immobilization studies. The enzyme was successfully immobilized in LentiKats® and the whole characterization of parameters (pH, temperature profile, storage, repetitive use etc.) was performed.

The scaling up of α -L-rhamnosidase production of strain developed in IMIC was also a very important part. The fermentation medium for the production of biomass and also the induction phase, the feeding of methanol, which was crucial in protein expression, was optimized. Compared to published results a 35.7 times higher activity was achieved.

Slovak Participant's Role in Project: SUT has been developing biocatalysts immobilized into polyvinylalcohol (PVA) matrix and some of the current generation of enzymes have found their use in industrial applications. With the help of the industrial partner LentiKats a.s. (LK), SUT gained wide experience with the immobilization of enzymes and also microorganisms into PVA hydrogel lens-shape capsules. So far the research of LK and SUT in enzyme immobilization has been mainly focused on hydrolases immobilization (invertase, glucoamylase, β -galactosidase, penicillin acylase) in the form of membrane bounded, purified, or cross-linked enzymes with very high operational stability. In this field of research the immobilization of oxido-reductive systems has been a new challenge which may have a wide range of potential applications in industry. The second potential application of immobilized biocatalysts is immobilization of viable microorganisms. This technique allows effective regeneration of cofactors within immobilized cells, long term use of cells, and protection of cells from toxic environment in chemical catalysis processes and revitalization of microorganisms.

EUROFIR-NEXUS

Project ID: 265967

Project Title: The EuroFIR Food Platform: Further integration, refinement and exploitation for its long-term self-sustainability

Project website: <http://www.eurofir.org/>

Project Start Date: 2011-04-01

Project End Date: 2013-03-31

Project Total Cost: EUR 1 117 387.4

Project EC Financial Contribution: EUR 999 998

Slovak participant Name: Food Research Institute

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Contact person email/ phone: Anna Giertlová, giertlova@vup.sk, 00421 2 50237115

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TOPSHARE INTERNATIONAL B.V. - NETHERLANDS

BRITISH NUTRITION FOUNDATION - UNITED KINGDOM

EUROPEAN FOOD INFORMATION RESSOURCE AISBL - BELGIUM

Project Description: The objective is to further integrate/refine the EuroFIR Food Platform (EFP), to improve/support the ways in which research is undertaken regarding the relationships between food, diets and health in Europe. Our focus is on extending application and exploitation of validated food data and tools for pan-European nutrition studies and networked usage, implementation of standards and best practice. This together forms the basis of long-term sustainability through the newly established legal entity EuroFIR AISBL. Six Work Packages are included: Quality standards and certification; Systems integration and operational support; Integration and business development; Training; Dissemination and Management. The

revised consortium has 35 existing EuroFIR partners (18 as 3rd parties/EuroFIR AISBL members). The already achieved high-level institutional commitment will be further strengthened.

Project Objectives: The goal of EuroFIR Nexus was to forge new links between data on food composition and the wider community. The primary objective is to refine the EuroFIR Food Platform, and support diets and health research in Europe.

To facilitate the further exploitation of food composition data, EuroFIR Nexus looked into its application, developed online resources, and promoted standards and best practice through EuroFIR AISBL. The project addressed six areas of interest: quality standards; certification and thesauri support; system integration and operation support; integration and business development; training and spreading of excellence; dissemination; and communication and management. Key strategic objectives include:

- a coherent quality framework for, and technical approach in, food data collection, storage, sharing and publication, and increased visibility and implementation of CEN standards for food composition data and its application;

- food information tools and repositories available via the EuroFIR AISBL portal to facilitate exchange of standardised food information, including composition data, which will empower food information users globally and improve data quality, and thus also the relevance and value of their products and services;

- sustained high-level institutional commitment to real and durable integration, expansion of the compiler network to include non-EuroFIR AISBL countries, within and beyond Europe, participation of other users and stakeholders, and robust future income streams from a wide range of sources;

- spreading of excellence, including training and skills development, and access to world-class facilities, which will enhance the impact of EuroFIR AISBL globally in the development, management and exploitation of food composition data and new research tools for public health nutrition research;

- successful dissemination and communication, and stakeholder engagement, leading to knowledge and technology transfer of targeted resources within the scientific community, and to regulators, policy-makers and the food and beverage industries, as well as the general public, to maximise the impact of European food, diet and health research.

Profile of Slovak Participant/ -s: Since January 1, 2014, the role of the Food Research Institute, which is part of the National Agricultural and Food Centre, established by the Ministry of Agriculture and Rural Development of the Slovak Republic, has been to perform basic and applied research and development activities in the fields of food chemistry, biotechnology and microbiology, molecular biology and genetics, analytical chemistry, as well as in the sectors of food hygiene and sanitation procedures. The majority of these activities are performed in close cooperation with food industry and also via active participation on many R&D project on national but also international level. Laboratories with most modern R&D infrastructure are located in the head-quarters of the Institute on Priemyselná 4, Bratislava. The technological part of FRI Biocentre is located in Modra. It is a place where pilot – semi-production scale experiments can be performed using the modern unit-operations principles – phase separator, distillation units, vacuum-concentrator units etc., enabling thus the modelling and verification of the individual food processing operations in a pilot scale. This establishment allows the direct tests and application of original results in real conditions of food producers.

The Institute is a leading and reputable authority in the basic

and applied food research in the areas of food chemistry and technology, microbiology, microbiological analysis and technology, food hygiene and sanitation, but also informatics and food composition databases, enabling the qualified estimation of the toxicity risk assessment, but also food composition calculations with respect to individual customers demands and needs. By all these (and many others) activities, the Institute have obtained an excellent credit at home and abroad.

The Institute has built (and still improves) the most modern infrastructure, laboratory equipment and instrumentation, technological and processing units, which has been obtained either from its own sources, or gained as a result of the participation in many national and international R&D projects and research task forces. Being very successful in gathering sources from the European Regional and Development Funds as well as the Structural Funds of the EU, in last 5 years, many most modern experimental high-tech devices and equipment was gained.

To sum-up, the most modern infrastructure, as well as highly experienced staff indicates the orientation of the Institute to the following basic and applied research areas:

- development of new analytical and microbiological methods for food safety control;
- development of new/ innovative food production/ technological processes;
- evaluation of the processes occurring in food during production and storage;
- modelling of food composition, continuous update of the Slovak food composition and nutrition databases;
- evaluation and monitoring of processes and practices affecting food safety;
- research on good hygiene practices and sanitation systems;
- study of the behaviour and mutual interactions of food ingredients in order to clarify the mechanisms of formation and elimination of substances with adverse effects on human health;

Anna Giertlova (Lead), Eva Kovacikova and Lenka Bartosova are compilers of the Slovak Food Composition Data Bank (SFCDB). They represent a special working group of the Department of Risk Assessment, Food Composition Data Bank and Consumer's Survey. They are working on management, standardisation and actualisation of the SFCDB. An important part of their work is dealing with software development. This is being carried out in cooperation with an external programmer. Their activities include compilation of the food composition tables and educational materials (handbooks, teaching tools, leaflets and software) for public. The working group has had an outstanding contribution in creation of sub-regional technical cooperating network on food composition in Central and Eastern Europe (CEEFOODS) during 1995-2004.

SK Participant Project Cost: EUR 4 800

SK Participant EC Financial Contribution: EUR 3 878

Project Outcomes planned/real: NEXUS objectives included:

- (1) Compilation, storage and sharing of high quality food composition data and information;
- (2) Development and maintain user-friendly food information tools;
- (3) Reinforcement of organisational commitment to the EUROFIR goals;
- (4) Spread excellence and training;
- (5) Communication and stakeholder engagement; and

(6) Cost-effective management bringing added value to EC investment.

Real outcomes:

- Certification of 16 food composition database compiler organisations.
- Quality Evaluation system for food composition data from scientific literature and reports was developed and extended.
- The activities focused on the maintenance and further development of food information tools and repositories available on the EUROFIR FIP. Particular attention was given to FoodEXplorer and FoodBasket, e-learning modules, FCDB management system (FoodCASE, Thesauri manager, Food Product Indexer and FoodTransporter).
- Training: The 11th post-graduate course on food composition was delivered by WU in Istanbul (TR).
- Continued widespread dissemination of information to users and stakeholders about the benefits of harmonised and state-of-the-art food composition data, and its application using new and established online tools, European standards and codes of practice.
- EUROFIR has engaged with dieticians and nutritionists through DIETS2, and via scientific publications and presentations.
- Links with the food industry and SMEs, frequently established through RTD projects, have been consolidated with uptake of membership or bespoke bilateral activities.
- Raised awareness of EUROFIR AISBL, and increased income from membership and other sources including RTD funding to assure the longer-term sustainability of the Association.

Slovak Participant's Role in Project:

- 1) VUP carried out on-site visit of 3 food database compiler organisations. The object of reviews was assessment of management requirements, technical requirements including personnel and training, database management system, food composition database compiler processes, publication process etc.
- 2) VUP participated on refining products, services and provided feedback in order to shape these for maximum future exploitation.
- 3) VUP provided training and realized capacity development activities to help shaping and implementing BalkanFood platform with UNU Network for Capacity Development in Central and Eastern European Countries.
- 4) Preparation of dissemination materials and other tailor-made resources for distribution through general communication channels - selected materials especially for consumers were translated and disseminated by VUP.

FACTOR MARKETS

Project ID: 245123

Project Title: Comparative Analysis of Factor Markets for Agriculture across the Member States

Project website: <http://www.factormarkets.eu/>

Project Start Date: 2010-09-01

Project End Date: 2013-08-31

Project Total Cost: EUR 2 562 570.4

Project EC Financial Contribution: EUR 1 979 023

Slovak participant Name: SLOVAK AGRICULTURAL UNIVERSITY IN NITRA

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LEIBNIZ INSTITUT FUER AGRARENTWICKUNG IN MITTEL- UND OSTEUROPA – GERMANY

STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK – NETHERLANDS

UNIVERZA NA PRIMORSKEM UNIVERSITA DEL LITORALE - SLOVENIA

Project Description: Well functioning factor markets are a crucial condition for the competitiveness and growth of agriculture and for rural development. At the same time, the functioning of the factor markets themselves are influenced by changes in agriculture and the rural economy, and in EU policies. Member state regulations and institutions affecting land, labor, and capital markets may cause important heterogeneity in the factor markets, which may have important effects on the functioning of the factor markets and on the interactions between factor markets and EU policies.

Project Objectives: The general objective of the Factor Markets project is to analyze the functioning of factor markets for agriculture in the EU-27, including the Candidate Countries. The Factor Markets project will compare the different markets, their institutional framework and their impact on agricultural development and structural change, as well as their impact on rural economies, for the Member States, Candidate Countries and the EU as a whole. The Factor Markets project will focus on capital, labor and land markets. The results of this study will contribute to a better understanding of the fundamental economic factors affecting EU agriculture, thus allowing better targeting of policies to improve the competitiveness of the sector.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 132 600

SK Participant EC Financial Contribution: EUR 99 450

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

FOODSEG

Project ID: 266061
 Project Title: Safe Food for Europe — Coordination of research activities and Dissemination of research results of EC funded research on food safety
 Project website: <http://www.foodseg.net/>
 Project Start Date: 2011-05-01
 Project End Date: 2014-04-30
 Project Total Cost: EUR 1 166 818.5
 Project EC Financial Contribution: EUR 999 915
 Slovak participant Name: Food Research Institute
 Slovak participant address: Priemyselná 4, 824 75 BRATISLAVA
 Contact person email/ phone: Jana Minarovičová, minarovicova@vup.sk/ 00421 2 50237 156

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 FREIE UNIVERSITAET BERLIN - GERMANY
 UNIVERSITAET FUER BODENKULTUR WIEN - AUSTRIA
 UNIVERZA V LJUBLJANI - SLOVENIA
 NUTRITION SCIENCES NV - BELGIUM
 VEREIN ZUR FOERDERUNG DES TECHNOLOGIETRANSFERS AN DER HOCHSCHULE BREMERHAVEN E.V. - GERMANY
 COOP ITALIA - SOCIETA' COOPERATIVA (SCARL) - ITALY
 CENTMA GMBH – GERMANY
 VYSKUMNY USTAV POTRAVINARSKY, FOOD RESEARCH INSTITUTE- SLOVAKIA
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 EUROFINS CTC GMBH - GERMANY
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 LIETUVOS SVEIKATOS MOKSLU UNIVERSITETAS - LITHUANIA
 NATIONAL RESEARCH CENTER - EGYPT
 THE UNIVERSITY COURT OF THE UNIVERSITY OF ABERDEEN - UNITED KINGDOM
 VIEN CONG NGHE SINH HOC VA THUC PHAM - VIET NAM
 NOFIMA MAT AS - NORWAY
 TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY - ÉIRE/IRELAND
 FUNDACION GAIKER - SPAIN
 UNIVERSITY OF ZAGREB-FACULTY OF VETERINARY MEDICINE - CROATIA
 INSTYTUT UPRAWY NAWOZENIA I GLEBOZNAWSTWA, PANSTWOWY INSTYTUT BADAWCZY-POLAND
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 TEKNOLOGIAN TUTKIMUSKESKUS VTT - SUOMI/FINLAND
 UNIVERSITY OF FOOD TECHNOLOGIES - BULGARIA
 VETERINÄRMEDIZINISCHE UNIVERSITÄT WIEN - AUSTRIA
 INSTITUTE FOR FOOD TECHNOLOGY OF NOVI SAD - SERBIA
 THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS - UNITED KINGDOM
 ARISTOTELIO PANEPISTIMIO THESSALONIKIS - GREECE

Project Description: The proposed Coordination and support actions (Coordinating, CSA) has the overall objective to disseminate state-of-the-art research results in food safety and quality topics through a series of symposia, expert working group meetings, an online platform with best practice examples and the coordination of cooperation and a plan for the preparation of future activities. In addition to the aim of disseminating research results of finalised and current EC funded projects from FP6 and FP7 and other projects focusing on food safety, the consortium will develop strategies and recommendations for European policies (e.g.: food, consumers, research, health, agriculture). The secure handling of food has main impact onto the safety of food products and the European consumers. Furthermore, detailed plans and actions to foster food safety research in Europe are part of the work-plan and objectives. The CSA action will pave the way for highly innovative research projects in the field of food safety.

Project Objectives: FOODSEG involves a series of strategic and measurable objectives in order to support the research activities carried out in the field. FOODSEG involves a series of strategic and measurable objectives in order to support the research activities carried out in the field of safety for food. FOODSEG has set itself the following key objectives listed as follows:

Key objectives

- Establishing expert working groups to coordinate research activities and to support policy development at EU level and to contribute by identifying research agendas for future community research in the field of food safety and quality, along the whole food chain.

- FOODSEG aims at supporting the European Commission in formulating suggestions for political consequences and relevant research topics. The expert working groups will elaborate policy recommendations to the European Commission and make suggestions for the emerging research topics in the field. Furthermore, the consortium has the objective to co-operate and contribute to the following technology Platforms, especially those which have food safety as part of their Strategic Research Agenda: Food for Life; Plants for the Future; Global Animal Health; Farm Animal Breeding and Reproduction; Water Supply and Sanitation.

- to organise three conferences;

- to integrate experts from New Member States and associated countries;

- to disseminate research results through an online platform and to establish new project consortia for FP7 and (now) Horizon 2020;

- to initiate and set up a researcher exchange programme.

Profile of Slovak Participant/ -s: Since January 1, 2014, the role of the Food Research Institute, which is part of the National Agricultural and Food Centre, established by the Ministry of Agriculture and Rural Development of the Slovak Republic, has been to perform basic and applied research and development activities in the fields of food chemistry, biotechnology and microbiology, molecular biology and genetics, analytical chemistry, as well as in the sectors of food hygiene and sanitation procedures. The majority of these activities is performed in close

cooperation with the food industry and also via active participation on many R&D projects on the national as well as international level. Laboratories with state-of-the-art R&D infrastructure are located in the head-quarters of the Institute on the Priemyselná 4 premises in Bratislava. The technological part of FRI Biocentre is located in Modra. This is where pilot semi-production scale experiments can be performed using modern unit-operations principles – phase separator, distillation units, vacuum-concentrator units etc., thus enabling the modelling and verification of the individual food processing operations on a pilot scale. This establishment allows direct tests and application of original results to be performed in real conditions of food producers.

The Institute is a leading and reputable authority in basic and applied food research in the areas of food chemistry and technology, microbiology, microbiological analysis and technology, food hygiene and sanitation, as well as ICT and food composition databases, enabling the qualified estimation of the toxicity risk assessment, and food composition calculations with respect to individual customers' demands and needs. Due to all these (and many other) activities, the Institute has obtained an excellent credit at home and abroad.

The Institute has built (and continues to improve) state-of-the-art infrastructure, laboratory equipment and instrumentation, technological and processing units, which has been obtained either using the Institute's resources, or gained as a result of participation in many national and international R&D projects and research task forces. Being very successful in acquiring resources from the European Regional and Development Funds as well as the Structural Funds of the EU in the past 5 years, a number of experimental high-tech devices and pieces of equipment were gained.

To conclude, state-of-the-art infrastructure as well as highly experienced staff indicate the orientation of the Institute to the following basic and applied research areas:

- development of new analytical and microbiological methods for food safety control;
- development of new/ innovative food production/ technological processes;
- evaluation of the processes occurring in food during production and storage;
- modelling of food composition, continuous update of the Slovak food composition and nutrition databases;
- evaluation and monitoring of processes and practices affecting food safety;
- research on good hygiene practices and sanitation systems;
- study of the behaviour and mutual interactions of food ingredients in order to clarify the mechanisms of formation and elimination of substances with adverse effects on human health;
- study of molecular-biological processes and their application in diagnostic procedures – detection of the pathogenic micro-organisms, GMOs, authentication, and adulteration of food.

Department of Microbiology, Molecular Biology and Biotechnology, National Agricultural and Food Centre - Food

Research Institute. The microbiological research group at the department has worked in the field of molecular-biological identification of foodborne pathogens for more than 15 years. At the beginning of the development and application of alternative pathogen detection methods the group was invited to participate in its first international project, the COPERNICUS project, and was given the opportunity to purchase the first cycliser. Since then the group has been involved in several national and bilateral projects and has participated in 3 EU projects focused on the given field of interest. We have designated and validated a number of original conventional and real-time PCR systems for the detection and quantification of pathogenic foodborne microorganisms – Salmonella spp., Listeria monocytogenes, Escherichia coli, Citrobacter freundii/braakii, Staphylococcus aureus, Cronobacter spp., and nested-PCR for Cryptosporidium parvum, multiplex real-time PCR for S. aureus enterotoxins genes or for Cronobacter spp. thermoresistance marker. Laboratories of the Department are very well equipped for research in microbiology and molecular biology with fully furnished separate microbiological laboratories for the work with pathogens. We have deposited more than 800 well-identified bacterial strains. Other projects are based on the study of the microflora of traditional Slovak food products (Slovak bryndza cheese, wine etc.) and the study and development of PCR-based methods for identification of allergens in food (walnuts, hazelnuts, peanuts, cashew nuts, pistachio nuts, macadamia nuts, Brazil nuts, celery etc.) and components of plant origin active in food intolerance (gluten-containing cereals).

SK Participant Project Cost: EUR 27 000

SK Participant EC Financial Contribution: EUR 24 075

Project Outcomes planned/real: Planned outcomes are: report on specific national problems and conditions in the field of food safety, catalogue of research organisations in the field of food safety from NMS and ACC countries, minutes of the working group workshops, recommendations for future research topics, report on proposal concepts for FP7 and HORIZON 2020, proceedings/ presentations of the symposia, online communication and knowledge platform, catalogue of best practice examples in food safety, report on short-term exchanges.

Real outcomes are: training workshop organization called 'Effective Presentation Skills for Researchers.'

Publication: Minarovičová et al. 2013, Foodborne pathogens and rapid molecular methods for food safety on the behalf of European science cooperation. In Programme, abstract book of the 1st Conference of BacFoodNet and 3rd MC Meeting and WG Workshops of the COST Action FA1202. 27.-28.11.2013, Praha, p. 28.

Short term exchange programme for PhD students in Rome (Italy) and in Berlin (Germany) for improving molecular methods skills in the laboratory for food safety.

Slovak Participant's Role in Project: Our role is based on the integration of New member and Associated candidate states, policy recommendations and future research ideas, symposia and project ideas awarding, good practice and dissemination of results and our task is to participate in researchers' exchange programme.

GRACE

Project ID: 311957
 Project Title: GMO Risk Assessment and Communication of Evidence
 Project website: <http://www.grace-fp7.eu/>
 Project Start Date: 2012-06-01
 Project End Date: 2015-11-30
 Project Total Cost: EUR 7 772 930.6
 Project EC Financial Contribution: EUR 5 981 013
 Slovak participant Name: Slovak Medical University in Bratislava
 Slovak participant address: Limbová 12, 833 03 Bratislava
 Contact person email/ phone: MVDr. Dagmar Zeljenková, dagmar.zeljenkova@szu.sk, phone: +421-2-59370548

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 AARHUS UNIVERSITET – DENMARK
 FREIE UNIVERSITAET BERLIN – GERMANY
 TECHNISCHE UNIVERSITAET MUENCHEN – GERMANY
 INTERNATIONAL CENTRE FOR GENETIC ENGINEERING AND BIOTECHNOLOGY – ITALY
 CENTRE FOR EUROPEAN POLICY STUDIES - BELGIUM
 GENIUS GMBH - BIOTECHNOLOGIE BERATUNG UND KOMMUNIKATION – GERMANY
 PERSEUS BVBA - BELGIUM
 EIDGENOESSISCHES VOLKSWIRTSCHAFTSDEPARTEMENT - SWITZERLAND
 INTERDISZIPLINARES FORSCHUNGSZENTRUM FUR TECHNIK, ARBEIT UND KULTUR AUSTRIA
 BUNDESAMT FUR VERBRAUCHERSCHUTZ UND LEBENSMITTELSICHERHEIT – GERMANY
 AGROBIOINSTITUTE – BULGARIA
 SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, SLOVAK MEDICAL UNIVERSITY IN BRATISLAVA- SLOVAKIA
 JEREMY BRUTON SWEET - UNITED KINGDOM
 COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH - SOUTH AFRICA
 STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK – NETHERLANDS
 CENTRE DE RECERCA AGRIGENÀMICA CONSORCI CSIC-IRTA-UAB (CRAG) - SPAIN

Project Description: The project GRACE will a) elaborate and sustainably implement a transparent framework for the review of GMOs or GM food and feed effects on environment, socio-economics and health and b) reconsider the design, execution and interpretation of results of animal feeding trials as well as in vitro studies for assessing the safety of GM food and feed. The framework will create high quality reviewing processes for different fields of GMO impact assessment and address the need for a well documented, transparent and sustainable representation of these reviewing processes. This will provide valuable and accessible information addressing the main issues associated with GMOs and enabling risk assessors, managers, scientists and the general public to reiterate and update their evaluations and conclusions on GMOs. It will adapt recently elaborated methodologies for (systematic) reviewing of the risk assessment information of GMOs and derived food and feed. The quality assessment for all reviewed papers and

studies as well as the reviews conducted by the consortium, will be referenced by an open access database and one-stop-shop for data and information relevant to GMO risk assessment. Animal feeding trials and in vitro studies will clarify and compare the scientific added value of 90day feeding trials with whole foods with advanced state-of-the-art analytical, in vitro and in-silico tools. Suitable animal GMO-feeding models will be investigated, that are based on European (EFSA) and international guidance, and the project will provide guidance for relevant, alternative in vitro cell-based approaches for specific topics within the overall food and feed safety assessment. Available standard or scientifically approved protocols form the basis of the investigations also in the case of the analytical, in-vitro and second in-silico approaches. GRACE will provide guidance for the use and improvement of existing and suggested assessment tools in the field of food and feed safety.

Project Objectives: GRACE pursues two key research objectives: Firstly, it aims to provide comprehensive reviews of the evidence on the health, environmental and socio-economic impacts of GM plants – considering both risks and possible benefits. GRACE's review strategy aims to go beyond what has been done before. Reviews will be conducted in a systematic, transparent and inclusive way, adapting established procedures e.g., from evidence-based medicine (systematic reviews). The results will be made accessible to the public via an open access database and other channels. Secondly, GRACE will test various types of animal feeding trials and alternative in vitro methods in order to determine how suitable they are and what useful scientific information they provide for health risk assessments of GM food and feed. The European Commission is considering whether 90-day feeding trials should be a mandatory test method for the risk assessment of GM foods and feeds. Until now, these feeding trials have been requested by the European Food Safety Authority (EFSA) in indicated cases. The GRACE project will also check whether extended feeding trials can improve risk assessments compared with the analytical and in vitro methods available today.

Profile of Slovak Participant/ -s: The Slovak Medical University in Bratislava (SMU) is an educational institution proudly keeping the tradition of education of healthcare workers in specialized studies and continuous life-long education in Slovakia. The Slovak Medical University in Bratislava is the only university in Slovakia that provides monothematic education for healthcare professions in all three degrees of higher education, and at the same time, the only institution that has guaranteed complex education of healthcare workers in Slovakia under various names since 1953. The Slovak Medical University is a public institution of higher education acting under the Ministry of Health of the Slovak Republic, with the following four faculties: Faculty of Medicine - Faculty of Public Health, Faculty of Nursing and Professional Health Studies, Faculty of Health. The Slovak Medical University is a non-political institution, acting within the Magna Charta Universitatum global university charter, recognizing the values democracy, humanism, and tolerance. It leads students towards adherence to the Hippocratic Oath, protection of life and health from conception until dignified natural death.

SK Participant Project Cost: EUR 1 091 108.8

SK Participant EC Financial Contribution: EUR 827 781

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SPECIFIC PROGRAMME COOPERATION

GRAIL

Project ID: 613667
 Project Title: Glycerol Biorefinery Approach for the Production of High Quality Products of Industrial Value
 Project website: <http://www.grail-project.eu/>
 Project Start Date: 2013-11-01
 Project End Date: 2017-10-31
 Project Total Cost: EUR 7 863 718.84
 Project EC Financial Contribution: EUR 5 954 479
 Slovak participant Name: Slovak Technical University (STUBA)
 Slovak participant address: VAZOVOVA 5, 81243 BRATISLAVA
 Contact person email/ phone: Ing. Martin Rebros, PhD., Phone: +421 2 59 325 480, e-mail: martin.rebros@stuba.sk

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 STIFTELSEN SINTEF - NORWAY
 AALBORG UNIVERSITET - DENMARK
 BIOZOON GMBH - GERMANY
 VIOMICHANIA RITION MEGARON ANASTASIOS FANIS ANONYMOS ETAIRIA - GREECE
 DBFZ DEUTSCHES BIOMASSEFORSCHUNGSZENTRUM GEMEINNUETZIGE GMBH - GERMANY
 PONTIFICIA UNIVERSIDAD CATOLICA DE VALPARAISO - CHILE
 VERTECH GROUP SARL - FRANCE
 THE QUEEN'S UNIVERSITY OF BELFAST - UNITED KINGDOM
 CENTIV GMBH - GERMANY
 PROCESSI INNOVATIVI SRL - ITALY
 HOCHSCHULE BREMERHAVEN - UNIVERSITY OF APPLIED SCIENCES - GERMANY
 CONSORZIO IN.BIO - CONSORZIO PER L'INNOVAZIONE E LA BIOECONOMIA - ITALY
 AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE - ITALY

Project Description: The overall concept of GRAIL project is the use, exploitation and further development of the state of the art in the field of bio-based products from glycerol and the development research-driven cluster for the use of crude glycerol for the production of high-value platforms, as well as valued end products, harnessing the biotech processes. Therefore GRAIL project has a strong business focus and its ultimate goal is to set up the implantation of bio-refineries in close relationship with biodiesel.

Project Objectives: This project's aim is to develop a set of technologies for converting waste glycerol from biodiesel production in a bio-refinery concept to end with products of high value such as 1,3 propanediol, Fatty acid glycerol formal esters, PolyHydroxyAlkanoates (PHA), Hydrogen and Ethanol, Synthetic coatings, powder coating resins, Secondary Glycerol Amine, Biobutanol, Trehalose, Cyanocobalamin (Vitamin B12), β -carotene, Docosahexaenoic acid (DHA) etc.

The GRAIL project has designed an overall strategy based on three main pillars covering the whole value chain:

Pillar 1: Raw materials: Evaluation of crude glycerol and purification;

Pillar 2: Product development: Research and development in order to transform crude glycerol into other high added value products such as bio-fuels, green chemicals and food supplements;

Pillar 3: Industrial feasibility aspects including economic and environmental evaluation. This pillar will take the results of GRAIL from the product development to the industrial site. To carry out the above-mentioned the technical feasibility will be studied on a pilot plant in a Demonstration manner (and the results will be important to evaluate the LCA and the economic feasibility).

Profile of Slovak Participant/ -s: Organization STUBA is a multidisciplinary facility with microbiology, biochemistry and bioengineering developing methods of microbial biomass production technology and environmental biotechnology.



Emphasis is put on fermentative production of organic acids, lipids, pigments and biotransformation of carbohydrates, overproduction of secondary metabolites used in pharmaceuticals and recombinant bio-catalysis (www.grail-project.eu).

SK Participant Project Cost: EUR 386 560

SK Participant EC Financial Contribution: EUR 289 920

Project Outcomes planned/real: The GRAIL project is a 48-month Collaborative Project with funding by the European Commission under FP7 Programme for Knowledge Based Bio-Economy. The theme of the Grail project is "Preventing and valorising bio-waste in bio-refineries Optimal and cost-effective industrial biocatalysts." The GRAIL project has been built with 15 partners from 9 different countries with the aim of finalising the solutions given previously to the valorisation of glycerol and of transforming them into valuable products in a bio-refinery approach.

The GRAIL project has a strong business focus and its ultimate goal is to set up implantation of bio-refineries in close relationship with biodiesel. This project's aim is to develop a set of technologies for converting waste glycerol from biodiesel production in a bio-refinery concept to end up with products of high value such as 1,3 propanediol, Fatty acid glycerol formal esters, PolyHydroxyAlkanoates (PHA), Hydrogen and Ethanol, Synthetic coatings, powder coating resins, Secondary Glycerol Amine, Biobutanol, Trehalose, Cyanocobalamin (Vitamin B12), β -carotene, Docosahexaenoic acid (DHA) (www.grail-project.eu).

Slovak Participant's Role in Project: The main task performed by STUBA in this project is to focus on fermentation with anaerobic microorganisms (*Clostridium* sp.) and aerobic microorganisms. STUBA will be involved in 2 different workpackages with different experimental models, including immobilization (www.grail-project.eu).

SPECIFIC PROGRAMME COOPERATION

G-TWYST

Project ID: 632165

Project Title: CEE and EU Development by Improving Start-up Support Ecosystem for take-up of FI-PPP results

Project website: <http://www.g-twyst.eu/>

Project Start Date: 2014-04-21

Project End Date: 2018-04-20

Project Total Cost: EUR 3 773 113.8

Project EC Financial Contribution: EUR 2 999 890

Slovak participant Name: SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, Slovak Medical University

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STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK - NETHERLANDS

JULIUS KUHN-INSTITUT BUNDESFORSCHUNGSINSTITUT FÜR KULTURPFLANZEN - GERMANY

DE VRIEND HUBRECHT CORNELIS - NETHERLANDS

ROGER ALISON LTD - UNITED KINGDOM

SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, SLOVAK MEDICAL UNIVERSITY- SLOVAKIA

UNIVERSITAET KLAGENFURT - AUSTRIA

Project Description: G-TwYST project is to provide guidance on long-term animal feeding studies for GMO risk assessment while at the same time responding to uncertainties raised through the outcomes and reports from recent (long-term) rodent feeding studies with whole GM food/feed.

Project Objectives: G-TwYST will execute rat feeding trials with GM maize NK 603 and MON810 based on OECD Test Guidelines and according to EFSA considerations. In the case of maize NK603 a 90-day and a combined 2-year chronic toxicity/carcinogenicity study will be performed. Maize MON810 will be subjected to a 2-year carcinogenicity study. By combining the results of the G-TwYST project with those of the GRACE project (90-day and 1-year study with maize MON810) it will be possible for the first time to describe the potential medium term and long term toxic effects of the two above-mentioned events.

Partners will strictly comply with international standards and norms concerning feeding trials and closely collaborate with EFSA. Feeding stuff used in the trials will be produced according to the principles of good agricultural practice. The project will analyse and report the results of the feeding trials and develop recommendations on the scientific justification and added value of long-term feeding trials for GMO risk assessment.

The project will ensure scientific excellence, independence and transparency of both the research process and the results. Transparency and accessibility of project plans and results is a key characteristic of the project and will be ensured by establishing a project website and by using an open access database set up by GRACE as information hubs. Results will be published as open access journal papers. Dedicated engagement, communication, and dissemination activities will target scientists, policy makers and a broad range of stakeholders. Participatory steps will be included in the planning as well as in the interpretation/conclusion phase. Moreover, the views of risk assessment and regulatory bodies as well as wider societal issues will also be taken into consideration.

The results of the project will enable risk managers drawing conclusions with regard to framework of the currently applicable GM food/feed risk assessment requirements and procedures in the EU.

Profile of Slovak Participant/ -s: The Research Base of the Slovak Medical University, Bratislava is the only institution in Slovakia entirely focused on medical research, carrying out experimental and clinical research. The Research Base of SMU has participated in numerous EU projects within the 5th and 6th Framework Programmes as well as in PHARE and NIH projects. Slovak Medical University is an EU Centre of Excellence in Environmental Health Research (HEAR NAS). The CoE is creating multidisciplinary research groups for projects aimed at reducing the negative impact of environmental factors on health. The scientific team which participated in FP5 project FIBRETOX focused on toxic effect of mineral dust. The team was involved in several FP6 projects, such as COMICS, NewGeneris, INTARESE, HEIMTSA, HENVINET and has a high level of expertise in environmental monitoring, biomonitoring, environmental and occupational epidemiology and genetic toxicology, and experience in development of new biomarkers of exposure, effect and genetic susceptibility, and genetic polymorphisms.

SK Participant Project Cost: EUR 673 880

SK Participant EC Financial Contribution: EUR 508 290

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

LOWINPUTBREEDS

Project ID: 222623

Project Title: Development of integrated livestock breeding and management strategies to improve animal health, product quality and performance in European organic and 'low input' milk, meat and egg production.

Project website: <http://www.lowinputbreeds.org/>

Project Start Date: 2009-05-01

Project End Date: 2014-04-30

Project Total Cost: EUR 8 910 743.6

Project EC Financial Contribution: EUR 5 999 995

Slovak participant Name: National Agricultural and Food Centre, Research institute for Animal Production in Nitra

Slovak participant address: Hlohovecká 2, 951 41 Lužianky

Contact person email/ phone: Ing. Peter Polák, PhD. polak@cvzv.sk, +421376546428

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INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE - FRANCE

KØBENHAVNS UNIVERSITET - DENMARK

UNIVERSITA DEGLI STUDI DI MILANO - ITALY

INSTITUTE FOR PIG GENETICS BV - NETHERLANDS

UNIVERSITA DEGLI STUDI DI CATANIA - ITALY

NATIONAL AGRICULTURAL RESEARCH FOUNDATION - GREECE

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE DE TUNISIE - TUNISIA

JOHANN HEINRICH VON THUENEN-INSTITUT, BUNDESFORSCHUNGSINSTITUT FUER LANDLICHE RAUME, WALD UND FISCHEREI - GERMANY

CENTRUM VYSKUMU ZIVOCISNEJ VYROBY NITRA, NATIONAL AGRICULTURAL AND FOOD CENTRE, RESEARCH INSTITUTE FOR ANIMAL PRODUCTION IN NITRA- SLOVAKIA

GEORG-AUGUST-UNIVERSITAET GOETTINGEN STIFTUNG OEFFENTLICHEN RECHTS - GERMANY

INSTITUT DE SÉLECTION ANIMALE BV - NETHERLANDS

UNIVERSITE CATHOLIQUE DE LOUVAIN - BELGIUM

UNIVERZA V LJUBLJANI - SLOVENIA

BRAUNVIEH SCHWEIZ GENOSSENSCHAFT - SWITZERLAND

APPLIED GENETICS NETWORK - SWITZERLAND

LINCOLN UNIVERSITY - NEW ZEALAND

UNIVERSIDADE FEDERAL DE VIÇOSA - BRAZIL

TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY - ÉIRE/IRELAND

UNIVERSITY OF GUELPH - CANADA

SWISSGENETICS - SWITZERLAND

LOUIS BOLK INSTITUUT - NETHERLANDS

FORSCHUNGSINSTITUT FÜR BIOLOGISCHENLANDBAU STIFTUNG - SWITZERLAND

PIGTURE IBERICA S.L. - SPAIN

STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK - NETHERLANDS

HELLINIKOS GEORGIKOS ORGANISMOS - DIMITRA (HELLENIC AGRICULTURAL ORGANIZATION - DEMETER) - GREECE

Project Description: The scientific concept of the LowInputBreeds project is to improve animal health, product quality and performance of organic and 'low input' production systems through research, development, training and dissemination activities focused on the development of novel breeding concepts/strategies and their integration with appropriate management innovations.

Project Objectives: The proposed project has 4 main Science and Technology objectives: 1. To develop and evaluate innovative breeding concepts, including (a) genome-wide and (b) marker-assisted selection, and (c) cross-, (d) 'flower'- and (e) farmer-participatory breeding strategies, which will deliver genotypes with 'robustness' and quality traits required under 'low input' conditions. The project will focus on 5 livestock production systems (dairy cows, dairy and meat sheep, pigs and laying hens) and design species-specific breeding strategies for different macroclimatic regions in Europe. 2. To integrate the use of improved genotypes with innovative management approaches including improved diets, feeding regimes and rearing systems. This will focus on issues (e.g. mastitis and parasite control, animal welfare problems) where breeding or management innovations alone are unlikely to provide satisfactory solutions. 3. To identify potential economic, environmental, genetic diversity and ethical impacts of project deliverables to ensure they conform to different societal priorities and consumer demands/expectations and are acceptable to producers. 4. To establish an efficient training and dissemination programme aimed at rapid exploitation and application of project deliverables by the organic and 'low input' livestock industry.



Profile of Slovak Participant/ -s: National Agricultural and Food Centre, Research institute for Animal Production in Nitra is a state contributory organization of Ministry of Agriculture and Rural Development. Research covers sustainable use and protection of natural resources for breeding animals, providing quality and competitiveness of products of animal origin, minimization of the influence of agriculture on environment along with rural development and transfer of knowledge to end users.

RIAP branches include genetics, breeding, reproduction, nutrition, ethology, economy, technology of breeding and quality of products of farm animals origin (including small animals and field game on farms), and their main activities are:

- science and technology development in the sphere of animal production;
- projects and international research and technical cooperation in biology, nutrition and technology of animal breeding;
- programme of protection of animal genetic resources in Slovakia;
- preparation of research reports, scientific and specialist publications and specialist events (conferences, courses, trainings) to transfer findings to managing organisations and users;
- special activities for the legal profession and entrepreneurs, as well as for biological and technical services;
- creation of standards and legislative activity and monitoring, accreditation;
- scientific, specialist education, post graduate education and pedagogical activities;
- activities in international organizations, in specialist and occupational bodies, associations, unions, boards and commissions.

SK Participant Project Cost: EUR 40 000

SK Participant EC Financial Contribution: EUR 30 000

Project Outcomes planned/real: Breeding strategy for Slovak Pinzgauer cattle for improving beef production via the use of ultrasound and molecular genetics. Draft for Slovak Pinzgauer Cattle Breeders Association; July, 2014, Tomka, J. and others

Linear evaluation of exterior for Slovak Pinzgauer cattle in beef production scheme. Draft for Slovak Pinzgauer Cattle Breeders Association, June, 2014, Polák, P. and Tomka, J.

Slovak Participant's Role in Project: Genotyping of Slovak Pinzgauer cattle for improving meat production.

Using genetic markers associated with muscularity to evaluate associations with ultrasound measurements of muscle and fat depth in live cattle within the Pinzgauer population in Slovakia.

Output: Description of the effect and the use of genetic markers in the selection process to improve the meat production within Pinzgauer cattle.

Design protocols of exterior evaluation of meat production traits for the Slovak Pinzgauer population.

Design selection criteria for meat production traits (growth rate and body conformation) in close cooperation with Slovak Pinzgauer Breeders Association and Slovak Beef Breeders Association using modern in vivo techniques (ultrasound, video image analysis, genotyping) to assess the phenotype.

Proposition of selection scheme of Slovak Pinzgauer Cattle for meat production traits in a suckler cows production system.

On the basis of results from task 1 and 2, design a proposal of a selection scheme of Slovak Pinzgauer Cattle for meat production traits in a suckler cow production system.

NTM-IMPACT

Project ID: 227202

Project Title: Assessment of the impacts of non-tariff measures - NTM on the competitiveness of the EU and selected trade partners

Project website: http://www.ilr.uni-bonn.de/agpo/rsrch/ntm/ntm_e.htm

Project Start Date: 2009-04-01

Project End Date: 2011-09-30

Project Total Cost: EUR 3 084 672

Project EC Financial Contribution: EUR 2 372 534

Slovak participant Name: SLOVAK AGRICULTURAL UNIVERSITY IN NITRA

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Partners of the Consortium: CENTRE DE COOPERATION INTERNATIONALE EN RECHERCHE AGRONOMIQUE POUR LE DEVELOPPEMENT – FRANCE

INSTITUTE OF DEVELOPMENT STUDIES - UNITED KINGDOM

INSTITUTO NACIONAL DE TECNOLOGIA AGROPECUARIA – ARGENTINA

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE – FRANCE

INTERNATIONAL FOOD AND AGRICULTURAL TRADE POLICY COUNCIL - UNITED STATES

UNIVERSITE LAVAL – CANADA

UNIVERSIDADE DE SAO PAULO – BRAZIL

THE UNIVERSITY OF SYDNEY – AUSTRALIA

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KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM

INSTITUTE OF GEOGRAPHICAL SCIENCES AND NATURAL RESOURCES RESEARCH, CHINESE

ACADEMY OF SCIENCES - CHINA

Project Description: The overall objective of the project is to collect and analyze new data on non-tariff measures (NTMs), particularly on governmental standards and regulations that prescribe the conditions for importing agri-food products into the EU market and into the markets of the main competing players. Furthermore, impacts from EU NTBs on least developing country (LDC) exports are examined.

Project Objectives: The project will deliver the following results:

- An analytical framework for defining measures, methods, products and countries.
- A data base on NTMs in EU, USA, Canada, Japan, China, India, Brazil, Argentina, Australia, Russia and New Zealand.
- Comparative analyses on the impact of NTMs on agri-food trade of the EU.
- Policy recommendations from case studies for quantifying NTMs on fruits and vegetables, meat and dairy trade clusters with the EU.
- Policy recommendations from case studies on the impacts of EU private and public standards in LDCs.
- Dissemination of project results to key stakeholders.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 83 966

SK Participant EC Financial Contribution: EUR 63 225

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

OBELIX

Project ID: 227391

Project Title: OBesogenic Endocrine disrupting chemicals: LInking prenatal eXposure to the development of obesity later in life

Project website: <http://www.theobelixproject.org/>

Project Start Date: 2009-05-01

Project End Date: 2013-11-30

Project Total Cost: EUR 3 918 991.8

Project EC Financial Contribution: EUR 2 999 692

Slovak participant Name: Slovak Medical University

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Partners of the Consortium: STICHTING VU-VUMC - NEDERLAND

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE - FRANCE

VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V. - BELGIQUE-BELGIË

VERENIGING VOOR CHRISTELIJK HOGER ONDERWIJS WETENSCHAPPELIJK ONDERZOEK EN PATIENTENZORG - NEDERLAND

STICHTING ECOBABY - NEDERLAND

NASJONALT FOLKEHELSEINSTITUTT - NORGE

RIJKSINSTITUUT VOOR VOLKSGEZONDHEID EN MILIEU - NEDERLAND

Project Description: The incidence of childhood obesity has reached epidemic proportions globally and there is an urgent need to increase our understanding of the impact of food contaminants on obesity development. The OBELIX project will examine the hypothesis that prenatal exposure to endocrine disrupting compounds (EDCs) in food plays a role in the development of obesity later in life.

Project Objectives: OBELIX proposes a multidisciplinary approach that combines epidemiology, neonatology, endocrinology, toxicology, analytical chemistry and risk assessment to address the objectives of the project: 1) To assess prenatal exposure in humans to major classes of EDCs in food identified as potential inducers of obesity (i.e. dioxins, non- and dioxin-like polychlorinated biphenyls, brominated flame retardants, phthalates and perfluorinated alkyl acids) using mother-child cohorts from four European regions with different food contaminant exposure patterns; 2) To relate early life exposure to EDCs with clinical markers, novel biomarkers and health effect data related to obesity; 3) To perform hazard characterization of in utero exposure to EDCs for the development of obesity later in life, using dose-response analysis in a rodent model; 4) To determine mechanisms of action of obesogenic EDCs on developmental programming with genomics and epigenetic analysis in in vivo and in vitro models; and, 5) to perform risk assessment of prenatal exposure to obesogenic EDCs in food, by integrating maternal exposure through food, contaminant exposure and health effect data in children, and hazard data.

Profile of Slovak Participant/ -s: Slovak Medical University (SMU) is the single institution in Slovakia within the competence of the Slovak Ministry of Health, focused on education in medicine and healthcare and involved in health research. The major expertise of SMU is in the area of environmental health, mainly the impact of environmental factors on population, with experience in environmental monitoring and human biomonitoring, environmental and occupational epidemiology and genetic toxicology, incl. research into biomarkers of exposure, effect and susceptibility.

SMU provides multidisciplinary oriented research and it has participated in numerous EU projects within the 5th, 6th and 7th Framework Programmes (FIBRETOX, PLUTOCRACY, PCBRISK, MODELKEY, INTARESE, HENVINET, HEIMTSA, COMICS, NewGeneris, ENVIRISK, SYSTEQ, OBELIX, DENAMIC) as well as PHARE and NIH projects. SMU was acknowledged as the EU Centre of Excellence in Environmental Health Research (HEAR NAS, QLAM-2001-00445, New Approaches to Hazard and Risk Assessment, Improving Environmental Health Research and Management in Newly Associated States) in 2002.

The Department of Environmental Medicine of the SMU is focused mainly on epidemiological research of health effects of environmental exposure to toxic compounds, with major interest in susceptible subpopulations, incl. pregnant women and children.

SK Participant Project Cost: EUR 266 667.2

SK Participant EC Financial Contribution: EUR 200 000

Project Outcomes planned/real: The main goal of OBELIX was to investigate if early life exposure to EDCs plays a role in the development of obesity and related disorders later in life. OBELIX investigated six major classes of EDCs, including dioxins, polychlorinated biphenyls, brominated flame retardants, organochlorine pesticides, phthalates, and perfluorinated alkyl acids (PFAAs). The main objectives and main conclusions of OBELIX were: OBELIX demonstrated that perinatal exposure to major classes of EDCs is widespread across Europe. In epidemiological studies in children, health outcomes such as birth weight, growth, body mass index (BMI) and levels of serum hormones such as thyroid hormones, leptin, adiponectin and insulin were examined. Postnatal exposure to PCB 153 was related to reduced birthweight, body mass index (BMI) and serum leptin levels at 6 years. Prenatal DDE was associated with rapid growth in children up to 2 years, increased BMI and serum leptin levels at 6 years. Preliminary results indicate a relation between perinatal exposure to dioxin-like chemicals and elevated BMI at 6 years. Hazard characterization studies in mice showed that perinatal dietary exposure to the EDCs BPA, PFOA, TCDD, DEHP and PFOA resulted in altered serum lipid and/or adipokine hormone levels in adulthood. Gene expression profiling in cord blood demonstrated an association between prenatal EDC exposure and glucocorticoid, oestrogen and progesterone receptor signalling. Risk assessment revealed that for some EDCs tested in OBELIX, such as BPA and PFOA, critical effect concentrations in animal studies in OBELIX were lower than those used to set current tolerable daily intake levels.

Slovak Participant's Role in Project: Associations were found between exposure to EDCs and metabolic markers leptin, adiponectin and insulin, with marked effect of gender in several of these associations.

Prenatal exposure to DDE and HCB was positively related to serum levels of leptin at the age of 7 years. Postnatal exposure to PCB153 and HCB, on the other hand, revealed an inverse relationship.

Breast milk exposure to dioxin-like compounds and to PFOS/PFOA was negatively related to serum levels of adiponectin at the age of 7 years. We observed gender interaction for PFOS/PFOA, but not for DL-compounds.

Early exposures to EDCs are related to metabolic imbalance. The timing of exposure and the effect of gender play an important role. With regard to the importance of prenatal exposures to obesogens and EDCs for human body development we found a negative relationship between lipophilicity and placental transport of PCB congeners and increased placental transfer of PCBs associated with alcohol intake during pregnancy.

ODIN

Project ID: 613977

Project Title: Food-based solutions for Optimal vitamin D Nutrition and health through the life cycle

Project website: <http://www.odin-vitd.eu/>

Project Start Date: 2013-11-01

Project End Date: 2017-10-31

Project Total Cost: EUR 7 946 548.2

Project EC Financial Contribution: EUR 5 998 084

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Partners of the Consortium: nahrad...

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UNIVERSIDAD POLITECNICA DE MADRID - SPAIN

UNITED STATES DEPARTMENT OF HEALTH AND HUMAN SERVICES - UNITED STATES

INSTITUT ZA MEDICINSKA ISTRA IVANJA - SERBIA

THE UNIVERSITY OF MANCHESTER - UNITED KINGDOM

EUROPEAN FOOD INFORMATION RESSOURCE AISBL - BELGIUM

UNIVERSITAETSKLINIKUM FREIBURG - GERMANY

DAITHI O'MURCHU MARINE RESEARCH STATION LTD - ÉIRE/IRELAND

UNIVERSITETET I TROMSOE - NORWAY

FRIESLANDCAMPINA NEDERLAND HOLDING BV - NETHERLANDS

AARHUS UNIVERSITETSHOSPITAL - DENMARK

PAMIDA INTERNATIONAL SRO- SLOVAKIA

MONAGHAN MUSHROOMS IRELAND - ÉIRE/IRELAND

STICHTING VU-VUMC - NETHERLANDS

DSM NUTRITIONAL PRODUCTS LTD - SWITZERLAND

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HAROKOPIO UNIVERSITY - GREECE

DANONE RESEARCH BV - NETHERLANDS

MEDIZINISCHE UNIVERSITAT GRAZ - AUSTRIA

KOBENHAVNS UNIVERSITET - DENMARK

CREME SOFTWARE LTD - ÉIRE/IRELAND

ROBERT KOCH-INSTITUT - GERMANY

DONETSK NATIONAL MEDICAL UNIVERSITY NAMED AFTER MAXIM GORKIY DONNNU - UKRAINE

UNIVERSITY OF SOUTHAMPTON - UNITED KINGDOM

HELSINGIN YLIOPISTO - SUOMI/FINLAND

HJARTAVERND SES - ISLAND

LALLEMAND SAS - FRANCE

SPAROS LDA - PORTUGAL

MEDICAL RESEARCH COUNCIL - UNITED KINGDOM

UNIVERSITY OF SURREY - UNITED KINGDOM

Project Description: Vitamin D deficiency has significant implications for human health and impacts on healthy growth and development and successful aging. Fundamental knowledge gaps are barriers to implementing a safe and effective public health strategy to prevent vitamin D deficiency and optimize status. ODIN will provide the evidence to prevent vitamin D deficiency in Europe and improve nutrition and public health through food. By establishing an internationally standardized analytical platform for 25OHD, ODIN will measure the distribution of circulating 25OHD and describe the prevalence of vitamin D deficiency in Europe. Using available bio-banks and databases from National nutrition surveys ODIN will delineate the relative contributions of sun and dietary sources of vitamin D to circulating 25OHD. In support of planned EFSA revisions of vitamin D recommendations, ODIN will carry out three RCT in pregnant women, children and teenagers and a fourth RCT in ethnic immigrant groups to provide experimental data to specify vitamin D intake requirements. Using dietary modelling, innovative food-based solutions to increase vitamin D in the food supply through a combination of bio-fortification of meats, fish, eggs, mushrooms and yeast will be developed and ODIN will test the efficacy and safety of these products in food-based RCT varying in scale from small product-specific trials to a large total diet study in vulnerable indigenous and immigrant sub-groups.

Project Objectives: The primary task of the ODIN project is to create a 25OHD (25-hydroxyvitamin D) unified analytical platform and a Vitamin D Standardization Program (VDSP).

ODIN has assembled the largest critical mass of prospective adult, pregnancy and birth cohort studies to date and will conduct meta-analyses and individual subject-level meta-regression analyses to integrate standardized data on vitamin D status, a priori defined clinical endpoints and genotype to examine relationships between vitamin D and human health, including beneficial and adverse effects, on perinatal outcomes, bone growth and body composition and allergic disease in children and cardiovascular disease and mortality in adults.

Profile of Slovak Participant/ -s: PAMIDA International Ltd. is a professional disseminator of scientific achievements within the field of life, medical and technical sciences. It is the company's mission to enable cross-border and international co-operation and communication between scientific institutions, individual scientists and stakeholders in order to accelerate implementation of innovations, knowledge and technology transfer, to facilitate international co-operation and disseminate new scientific insights to the professional and general public by on-line tools, off-line media and international scientific conferences, symposia, meetings and press-conferences. The conferences, symposia and the matchmaking events serve as hubs for current findings and hereby accelerate the implementation of innovations, knowledge transfer, facilitate new co-operations between policy makers, stakeholder groups, scientists, research institutes, universities and industry.

PAMIDA International excels in the communication of scientific achievements and new product development to the public in order to reach quickly a critical mass of attention and interest, and to significantly reduce time for commercial use of newly developed products or innovations.

PAMIDA International has an internationally experienced leadership and staff that is able to formulate and execute communication strategies targeting the relevant stakeholders of relevant policy makers, academic, scientific or public groups.

PAMIDA Internationals conference management services aim to provide efficient meetings, where specific stakeholder groups can concentrate on knowledge exchange and networking.

PAMIDA International disseminates scientific achievements also through its long-term media partners, international peer-reviewed scientific journals and industry publications.

Each of the conference contributions were published in official conference proceedings and selected papers were published in international peer-reviewed scientific journals listed in Current Contents.

SK Participant Project Cost: EUR 236 160

SK Participant EC Financial Contribution: EUR 236 160

Project Outcomes planned/real: ODIN will provide the evidence to prevent vitamin D deficiency in Europe and improve nutrition and public health through food. By establishing an internationally standardized analytical platform for 25OHD, ODIN will measure the distribution. ODIN has assembled the largest critical mass of individuals and will conduct meta-analyses and individual subject-level meta-regression analyses to integrate standardized data on vitamin D status, a priori defined clinical endpoints and genotype to examine relationships between vitamin D and human health, including beneficial and adverse effects, on perinatal outcomes, bone growth and body composition and allergic disease in children and cardiovascular disease and mortality in adults. Outcomes of the PAMIDA company: dissemination, communication and stakeholder engagement plan; establishment of dissemination and communication committee; completion of media lists; development of a prototype of the technology transfer portal; make ODIN corporate brand design, media packs and dissemination materials.

Slovak Participant's Role in Project: PAMIDA will prepare various microsites (microsite: one purpose-focused website with top-level SEO – search engine optimisation) specifically focused on spreading information about ODIN and aggregating the web traffic to the main project website. Coordination of the publication procedures and exploitation activities. Organization and coordination of all workshop activities. Coordination of the internal and external dissemination. PAMIDA will be responsible for establishing the project website, based on other successful ongoing and new websites. PAMIDA will manage the private part of project portal and will use the portal as part of a specific integrated online campaign with social media communication channels.

PRIORITY

Project ID: 222887

Project Title: Protecting the food chain from prions: shaping European priorities through basic and applied research

Project website: www.priori-priority.eu/web/

Project Start Date: 2009-10-01

Project End Date: 2014-09-30

Project Total Cost: EUR 7 904 904.6

Project EC Financial Contribution: EUR 5 999 499

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KAROLINSKA INSTITUTET - SWEDEN

UNIVERSITEIT MAASTRICHT - NETHERLANDS

SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, SLOVAK MEDICAL UNIVERSITY-SLOVAKIA

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UNIVERSITAET ZUERICH - SWITZERLAND

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THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS - UNITED KINGDOM

STICHTING HET NEDERLANDS KANKER INSTITUUT - NETHERLANDS

INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA - SPAIN

INSTITUT PASTEUR - FRANCE

VETERINAERINSTITUTTET - NATIONAL VETERINARY INSTITUTE - NORWAY

Project Description: Bovine Spongiform Encephalopathy (BSE) started 20 years ago, a devastating health and food crisis throughout Europe. Classical BSE is now under control as a result of the meat and bone meal ban. However, tonsil analyses suggest that there may be an alarmingly high number of asymptomatic PrPSc positive cases. Transmission through blood transfusion is another important concern, as are recent atypical cases of BSE.

Only a profound understanding of the molecular biology of prions will enable us to control them. Thus, to understand why BSE-contaminated food causes vCJD, we need to understand how prions get into food, what happens with them in the intestines, how they reach the brain, and how they initiate the chain reaction rapidly leading to death.

Project Objectives: The project has formulated 7 key questions:

- How can we avoid a new BSE outbreak, or other possible future prion infection of livestock?

- Why did decontamination of meat and bone meal fail; is there an effective way to decontaminate feedstuffs, soil etc.?

- What is the risk of humans being infected with each of the different prion strains known so far?

- Which are the best strategies to implement in feasible prion eradication programs?

- How can we develop a pre-clinical prion blood test?

- How can we identify human cases with potential secondary transmission?

- What is the origin of atypical human CJD cases?

We will search for decisive data on the structure of PrPSc, the molecular basis of strains and species barriers, the mechanism of prion conversion, the cell biology of PrPSc, the function of PrPC, and the mechanisms of PrP-associated pathology.

Profile of Slovak Participant/ -s: The Slovak Medical University in Bratislava (SMU) is an educational institution proudly keeping the tradition of education of healthcare workers in specialized studies and continuous life-long education in Slovakia. The Slovak Medical University in Bratislava is the only university in Slovakia that provides monothematic education for healthcare professions in all the three degrees of higher education, and at the same time, the only institution that has guaranteed complex education of healthcare workers in Slovakia under various names since 1953.

The Slovak Medical University is a public institution of higher education functioning under the Ministry of Health of the Slovak Republic, with the following four faculties - Faculty of Medicine, Faculty of Public Health, Faculty of Nursing and Professional Health Studies, Faculty of Health.

The Slovak Medical University is a non-political institution, acting within the Magna Charta Universitatum global university charter, recognizing the values of democracy, humanism, and tolerance. It leads students towards adherence to the Hippocratic Oath, protection of life and health from conception until a dignified natural death.

SK Participant Project Cost: EUR 319 667.2

SK Participant EC Financial Contribution: EUR 239 750

Project Outcomes planned/real: To increase the knowledge on the biology of prions: prion structure, function, toxicity and conversion, prion detection, transmission and spreading, prion epidemiology.

Slovak Participant's Role in Project: 1) Epidemiology and diagnosis of CJD. Anticipation in gCJD. Carriers of E200K in the general population. 2) Evaluation of prion chemical inactivation procedures. 3) Sample bank.

PROMISE

Project ID: 265877

Project Title: Protection of consumers by microbial risk mitigation through combating segregation of expertise

Project website: <http://www.promise-net.eu/>

Project Start Date: 2012-01-01

Project End Date: 2014-12-31

Project Total Cost: EUR 3 492 194.4

Project EC Financial Contribution: EUR 2 999 756

SLOVAK PARTICIPANT 1

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SLOVAK PARTICIPANT 2

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BUNDESINSTITUT FUER RISIKOBEWERTUNG - GERMANY

UNIVERSIDAD DE BURGOS - SPAIN

VYZKUMNY USTAV VETERINARNIHO LEKARSTVI - CZECH REPUBLIC

DI ANDREAS MOSER RTD SERVICES - RTDS - AUSTRIA

TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY - ÉIRE/IRELAND

INSTITUTE OF FOOD RESEARCH - UNITED KINGDOM

AUTORITATEA NATIONALA SANITARA VETERINARA SI PENTRU SIGURANTA ALIMENTELOR - ROMANIA

VYSKUMNY USTAV POTRAVINARSKY, FOOD RESEARCH INSTITUTE - SLOVAKIA

UNIVERSITY OF ZAGREB-FACULTY OF VETERINARY MEDICINE - CROATIA

ENIEOS FOREAS ELEGHOU TROFUNON - GREECE

KALITE SISTEM LABORATUVARLARI AS - TURKEY

OSTERREICHISCHE AGENTUR FUR GESUNDHEIT UND ERNAHRUNGSSICHERHEIT GMBH - AUSTRIA

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URAD VEREJNEHO ZDRAVOTNICTVA SLOVENSKEJ REPUBLIKY, PUBLIC HEALTH AUTHORITY OF THE SLOVAK REPUBLIC - SLOVAKIA

GIDA GUVENLIGI DERNEGI - TURKEY

UNIVERSITATEA DUNAREA DE JOS DIN GALATI - ROMANIA

FOOD SAFETY AUTHORITY OF IRELAND - ÉIRE/IRELAND

Project Description: The overall objective of PROMISE is to improve and strengthen the integration, collaboration and knowledge transfer between the new and old member states of the European Union and its candidates countries through a collaborative research and work plan to tackle common food safety threats and hence to protect the European consumer.

Project Objectives: The specific objectives of PROMISE are:

- analysis of yet unknown risks for transmission of pathogens through exogenous routes of transmission;

- investigation of yet unknown risks for transmission of pathogens through indigenous routes of transmission;

- development models to analyse the impact of food chain parameters on pathogen prevalence (EU Food Safety data);

- mitigating the impact of zoonotic disease in New Member Countries, Candidate Countries and Old Member Countries;

- dissemination of research results and scientific support to policy making.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Since January 1, 2014, the role of the Food Research Institute, which is part of the National Agricultural and Food Centre, established by the Ministry of Agriculture and Rural Development of the Slovak Republic, has been to perform basic and applied research and development activities in the fields of food chemistry, biotechnology and microbiology, molecular biology and genetics, analytical chemistry, as well as in the sectors of food hygiene and sanitation procedures. The majority of these activities is performed in close cooperation with the food industry and also via active participation on many R&D projects on the national as well as international level. Laboratories with state-of-the-art R&D infrastructure are located in the head-quarters of the Institute on the Priemyselná 4 premises in Bratislava. The technological part of FRI Biocentre is located in Modra. This is where pilot semi-production scale experiments can be performed using modern unit-operations principles – phase separator, distillation units, vacuum-concentrator units etc., thus enabling the modelling and verification of the individual food processing operations on a pilot scale. This establishment allows direct tests and application of original results to be performed in real conditions of food producers.

The Institute is a leading and reputable authority in basic and applied food research in the areas of food chemistry and technology, microbiology, microbiological analysis and technology, food hygiene and sanitation, as well as ICT and food composition databases, enabling the qualified estimation of the toxicity risk assessment, and food composition calculations with respect to individual customers' demands and needs. Due to all these (and many other) activities, the Institute has obtained an excellent credit at home and abroad.

The Institute has built (and continues to improve) state-of-the-art infrastructure, laboratory equipment and instrumentation, technological and processing units, which has been obtained either using the Institute's resources, or gained as a result of participation in many national and international R&D projects and research task forces. Being very successful in acquiring resources from the European Regional and Development Funds as well as the Structural Funds of the EU in the past 5

years, a number of experimental high-tech devices and pieces of equipment were gained.

To conclude, state-of-the-art infrastructure as well as highly experienced staff indicate the orientation of the Institute to the following basic and applied research areas:

- development of new analytical and microbiological methods for food safety control;
- development of new/ innovative food production/ technological processes;
- evaluation of the processes occurring in food during production and storage;
- modelling of food composition, continuous update of the Slovak food composition and nutrition databases;
- evaluation and monitoring of processes and practices affecting food safety;
- research on good hygiene practices and sanitation systems;
- study of the behaviour and mutual interactions of food ingredients in order to clarify the mechanisms of formation and elimination of substances with adverse effects on human health;
- study of molecular-biological processes and their application in diagnostic procedures – detection of the pathogenic micro-organisms, GMOs, authentication, and adulteration of food.

Department of Microbiology, Molecular Biology and Biotechnology, National Agricultural and Food Centre - Food Research Institute. The microbiological research group at the department has worked in the field of molecular-biological identification of foodborne pathogens for more than 15 years. At the beginning of the development and application of alternative pathogen detection methods the group was invited to participate in its first international project, the COPERNICUS project, and was given the opportunity to purchase the first cyclor. Since then the group has been involved in several national and bilateral projects and has participated in 3 EU projects focused on the given field of interest. We have designated and validated a number of original conventional and real-time PCR systems for the detection and quantification of pathogenic foodborne microorganisms – *Salmonella* spp., *Listeria monocytogenes*, and *Escherichia coli*. *Citrobacter freundii/braakii*, *Staphylococcus aureus*, *Cronobacter* spp., and nested-PCR for *Cryptosporidium parvum*, multiplex real-time PCR for *S. aureus* enterotoxins genes or for *Cronobacter* spp. thermoresistance marker. Laboratories of the Department are very well equipped for research in microbiology and molecular biology with fully furnished separate microbiological laboratories for the work with pathogens. We have deposited more than 800 well-identified bacterial strains. Other projects are based on the study of the microflora of traditional Slovak food products (Slovak bryndza cheese, wine etc.) and the study and development of PCR-based methods for identification of allergens in food (walnuts, hazelnuts, peanuts, cashew nuts, pistachio nuts, macadamia nuts, Brazil nuts, celery etc.) and components of plant origin active in food intolerance (gluten-containing cereals).

SK Participant Project Cost: EUR 176 000

SK Participant EC Financial Contribution: EUR 147 680

Project Outcomes planned/real: Planned outcomes are: the description of environmental contamination dynamics (spatial and temporal), database of molecular methods and monitoring systems, database of new data sources and summarizing influences on the uncertainty associated prevalence, modelling approaches and results in relation to communication strategy, extended models describing the time variation of prevalence for particular zoonotic agents, spatial variations and spatial analyses and a project for visualization of prevalence heterogeneities, technical training workshop tour (TTWT), short and long researcher exchanges, workshops with stakeholders.

Real outcomes are: The following publications:

Dalmaso et al. 2014: Comparison of polymerase chain reaction methods and plating for analysis of enriched cultures of *Listeria monocytogenes* when using the ISO11290-1 method. *Journal of Microbiological Method*, 98, p. 8-14.

Minarovičová et al. 2012: Screening of *Listeria monocytogenes* in small hand-made un-pasteurized cheese producers. In Abstract book of 23d international ICFMH Symposium FoodMicro 2012, Istanbul, p. 305.

Minarovičová et al. 2013: Participation of Food Research Institute in EU project PROMISE from the view of monitoring *Listeria monocytogenes* in cheese production. In Proceedings of the 4th scientific congress with international participation "Zoonoses - common protection of human and animal health", Bratislava, p. 67.

Koreňová et al. 2013: Investigation of the indigenous routes of transmitting of *Listeria monocytogenes* in Slovak sheep cheese producers. In Proceedings of the 4th scientific congress with international participation "Zoonoses - common protection of human and animal health", Bratislava, p. 51. Organization of seminar: "PROMISE – cooperation between food research and food safety authority in Slovakia".

One member of staff has participated in a PhD exchange programme according to TTWT.

Slovak Participant's Role in Project: The role is to participate in the workpackage with the title: A targeted vigilance concept for environment-borne microbial risks during food processing. Assuring the safety of food supply chains implies assuring the control of critical environment control points (CEP) such as drains, housing pipes and other equipment technically difficult to decontaminate (slicers, injectors, smearing robots). A set of sampling points that have been agreed upon between all the partners will be analysed in one contaminated and one uncontaminated processing environment in four countries (Austria, Slovakia, Spain, Ireland), inside and outside the hygiene barriers (e.g. raw milk supply area versus clean area such as ripening rooms). The samples will be tested by culture method (ISO 12900) and by molecular analysis.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 24 520

SK Participant EC Financial Contribution: EUR 24 520

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

Project Description: Dairying is an important sector of EU agriculture, but intensification has been accompanied by an increase in nitrogen surplus in the cycle among the animal, the crop and the soil. This has a negative environmental impact on groundwater (pollution with nitrates), surface water (eutrophication) and on the atmosphere (denitrification and ammonia volatilisation). The EU seeks to stimulate measures that improve management of nutrients, waste and water as a start to move to management practices beyond 'usual good-farming practice.'

Project Objectives: The objective of RedNEx is to develop innovative and practical management approaches for dairy cows that reduce N excretion into the environment through the optimization of rumen function, an improved understanding and prediction of dietary N utilization for milk production, and excretion in urine and faeces. Dissemination and knowledge interaction will use a participatory approach to include the views of stakeholders and a recognition of the need to provide support to EU neighbours.

REDNEX

Project ID: 211606

Project Title: Innovative and practical management approaches to reduce nitrogen excretion by ruminants

Project website: <http://www.rednex-fp7.eu/>

Project Start Date: 2008-07-01

Project End Date: 2013-10-31

Project Total Cost: EUR 7 107 608.6

Project EC Financial Contribution: EUR 5 550 000

Slovak participant Name: SLOVENSKE CENTRUM POLNOHOSPODARSKEHO VYSKUMU

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INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE - FRANCE

UNIVERSITAT AUTONOMA DE BARCELONA - SPAIN

UNIVERSITEIT GENT - BELGIUM

UNIVERSITY OF AARHUS - DENMARK

UNIVERSITY OF READING - UNITED KINGDOM

WAGENINGEN UNIVERSITEIT - NETHERLANDS



Profile of Slovak Participant/ -s: The Research Institute for Animal Production, Nitra was established in 1947. Since 1.1.2014 (by decision of the Ministry of Agriculture of the Slovak Republic on the Research Institute for Animal Production (RIAP)) it has become part of the National Agricultural and Food Centre in Nitra that brings together nine research institutes focusing on agricultural and food research. The main objective of the RIAP is to solve the tasks of science and technical development of animal production in the sphere of nutrition and feeding, biotechnology, reproduction, ethology, technology and ecologisation of husbandry, quality of meat, milk etc. Further activity of the Centre is aimed at the creation of scientific programmes in the sphere of animal production, as well as education of scientific and professional workers. One of the institutes of RIAP is the Department of Nutrition, which was involved in the project REDNEX. A well-equipped chemical laboratory and experimental base, where animal studies (cannulated cows, pigs, rabbits, quail, red deer, roe deer and rats) can be performed, are a part of the Department of Nutrition. Research in this Department is focused on the problems of animal nutrition and feeding, production of feeds and feed additives, utilisation of nutrients by animals, and nutrient transformation into high-quality animal products. Investigation deals with the nutritional value and conservation of structural and non-structural CORRECTI, crude proteins and amino acids as well as their degradability and digestibility in ruminants, poultry, pigs, rabbits, rats, red deer and roe deer.

SK Participant Project Cost: EUR 179 140.8

SK Participant EC Financial Contribution: EUR 135 105

Project Outcomes planned/real: The objective of the REDNEX project was to develop innovative and practical management approaches for dairy cows that reduce N excretion into the environment through the optimization of rumen function, an improved prediction of dietary N utilization for milk production and excretion in urine and faeces. The specific objectives within this project were:

- 1) developing standardised rapid tools to measure fermentation characteristics of feeds in the rumen to predict protein degradability and available fermentable organic matter for microbial synthesis in the rumen;
- 2) improving feeding strategies based on a better amino acids absorption, and conversion to milk protein;
- 3) improving feeding strategies to stimulate N recycling;
- 4) developing predictive models of N output of cow and herd to estimate N output of dairy farms within the EU;
- 5) disseminating knowledge on N management on dairy farms that will allow a meaningful dialogue between researchers and stakeholders to ensure that the project meets the needs of the end users.

It is concluded from REDNEX studies that the rumen microbial population does not adapt to protein underfeeding by increasing the efficiency of microbial protein synthesis. Feeding starch-rich diets resulted in a more than 8 % increase in N use efficiency (milk N output / N intake) in dairy cattle. Balancing the amino acid profile of metabolisable protein allows for lowering dietary N content resulting in reduced N excretion and metabolic protein supply but maintaining animal performance. An existing model to predict N output by dairy production operations was modified to improve its accuracy. Knowledge transfer takes place by publications and during symposia, specific workshops (in Nitra, Vilnius, Zagreb, Bucharest) and sessions organised by REDNEX.

The project has supported 32 young scientists from Europe and the Mediterranean area to attend these meetings.

Slovak Participant's Role in Project: Our tasks in the project were focused on in situ experiments and the development and testing of in vitro methods for the determination of important nutritional indicators used in assessing feed quality in feed for ruminants. In addition, for all feeds the intestinal digestibility was determined by the method of mobile bags for cannulated animals and established enzymatic method for the in vitro assay for intestinal digestibility. A comparison of the results of in situ (at present as a reference method) and in vitro methods indicate that the in situ method can be replaced by an in vitro method (specialty chemical analysis based on the solubility of the protein fractions of feeds) which is not time consuming, expensive and not many cannulated animals are needed. For intestinal digestibility of rumen undegraded protein (RUP) the three-step in vitro procedure showed to be a useful alternative to the mobile bag technique. The achieved results were presented in 3 scientific articles and 14 scientific contributions and presentations at international conferences.

SHARCO

Project ID: 204429

Project Title: Sharka Containment

Project website: www.sharco.eu/sharco

Project Start Date: 2008-03-01

Project End Date: 2012-8-31

Project Total Cost: EUR 3 823 038.8

Project EC Financial Contribution: EUR 2 935 674

Slovak participant Name: Institute of Virology SAS

Slovak participant address: Dúbravská Cesta 9, 845 05 Bratislava

Contact person: Dr. Ivetta Sarnikova, email/ phone: viruisar@savba.sk, +421 2 59302400

Partners of the Consortium: Institut national de la recherche agronomique, France

AgroBio institute -Bulgaria

Universitatea de Stiinte Agronomice si Medicina Veterinara Bucuresti - Romania

Consejo Superior de Investigaciones Cientificas - Spain

Consiglio Nazionale delle Ricerche-Instituto di Virologia Vegetale - Italy

Instituto Valenciano de Investigaciones Agrarias - Spain

Instytut Sadownictwa i Kwiaciarnictwa Skierniewice - Poland

Mustafa Kemal University -Turkey

Crop Research Institute - Czech Republic

Technische Universität München - Germany

Fruit Research Institute - Serbia

Agricultural Research Service -USA

Fruit Growing Institute - Bulgaria

Università degli Studi di Milano - Italy

Mendel university in Brno - Czech Republic

Statiunea de Cercetare-Dezvoltare pentru Pomicultura Bistrita - Romania

Project Description: The concept of SharCo is to combine prophylactic and genetic solutions to prevent or limit the spread of the sharka disease (caused by PPV). The project scope covers the entire chain from planting material (seedlings, scions...) production to orchard management. It addresses all concerned stakeholders, breeders, nurserymen, fruit producers, and plant protection services with relevant outcomes including respectively resistant varieties, management guidelines, cultivation guidelines, optimised survey and detection methods and tools.

Project Objectives: The strategic objective of SharCo is to provide the EU with novel methods and tools to face this menace. On that purpose, the project will :
In the field of epidemiology, develop new methods for monitoring and fighting the PPV spread by:
- Identifying the driving factors of the PPV spread and diversification
- Developing novel systems for detecting, assessing and warning sharka outbreaks
In the field of biology, develop new genetic tools for breeding to contribute to improve the resistance of orchards cultivated plants, by:
- Identifying molecular markers linked to resistance
- Implementing marker assisted selection to speed up the breeding of resistant fruit trees.
- Reinforcing plant resistance by combining new and complementary resistant genetic mechanisms
In the field of agricultural management, help the end-users -notably but not exclusively breeders, nursery gardeners and fruit producers- to take advantage of the project outcomes by:
- Establishing guidelines aimed at minimising the virus spread likelihood at the levels of nurseries and orchards
- Delivering a risk management system designed to minimise the exposure resulting from the entry of new variants from accessing EU countries

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 97 488

SK Participant EC Financial Contribution: EUR 73 748

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

STREPSYNTH

Project ID: 613877

Project Title: Rewiring the Streptomyces cell factory for cost-effective production of biomolecules

Project website: <http://www.kuleuven.be/kuleuven/>

Project Start Date: 2013-12-01

Project End Date: 2018-11-30

Project Total Cost: EUR 11 330 655.27

Project EC Financial Contribution: EUR 8 691 070

Slovak participant Name: Institute of Molecular Biology of Slovak Academy of Sciences

Slovak participant address: DÚBRAVSKÁ CESTA 21, 845 51 BRATISLAVA

Contact person email/ phone: RNDr. Jan Kormanec, DrSc.; jan.kormanec@savba.sk; Tel: +421259307419

Partners of the Consortium:

KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM

FORSCHUNGSZENTRUM JUELICH GMBH - GERMANY

FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE

USTAV MOLEKULARNEJ BIOLOGIE SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF MOLECULAR BIOLOGY OF SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

UNIVERSITAET BIELEFELD - GERMANY

THE UNIVERSITY OF MANCHESTER - UNITED KINGDOM

PHARMABIOTEC GMBH - GERMANY

HELMHOLTZ-ZENTRUM FUER INFektionsFORSCHUNG GMBH - GERMANY

PROGENUS SA - BELGIUM

ENTRECHEM SL - SPAIN

TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY - ISRAEL

MATIS OHF - ISLAND

APRONEX S.R.O - CZECH REPUBLIC

Q-BIOLOGICALS NV - BELGIUM

TECHNISCHE UNIVERSITAT BERLIN - GERMANY

NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU - NORWAY

Project Description: Systems of biology tools will guide fine-tuning rounds of cell factory engineering and fermentation optimization. To set up SNIP we chose two classes of biomolecules with obvious immediate industrial value and application: heterologous proteins (industrial enzymes, biopharmaceuticals, biofuel enzymes, and diagnostics) and small molecules (lantipeptides and indolocarbozoles) useful for multiple industrial purposes (biopharmaceuticals, additives, food technology, bio-energy). These bio-molecules are of immediate interest to SMEs that participate and guide the industrial relevance of STREPSYNTH. SNIP is a modular platform that can be repurposed for diverse future applications.

Project Objectives: STREPSYNTH aims to set-up a Streptomyces-based new industrial production platform (SNIP) for high value added bio-molecules. Streptomyces lividans was chosen as a bacterial host cell because it has been already shown to be highly efficient for the extracellular production of a number of heterologous molecules that vary chemically, it has a robust tradition of industrial fermentation and is fully accessible to genetic intervention. To develop SNIP our strategy has two components: first, we will construct a collection of reduced-genome *S. lividans* strains. This will metabolically streamline the cell and divest it of agents (e.g. proteases) of potential harm to the heterologous polypeptides. Second, we will engineer synthetic parts and cassettes, i.e. reshuffled, rewired and repurposed genetic elements either indigenous to *S. lividans* or heterologous genes organized in artificial operon clusters. These elements will serve three aims: transcriptional and translational optimization, sophisticated on-demand transcriptional regulation that will provide unique fermentation control and metabolic engineering of complete cellular pathways channelling bio-molecules to profuse extracellular secretion. Synthetic parts and cassettes will be either directly incorporated into the genome or they will be hosted in the form of plasmids.



Profile of Slovak Participant/ -s: The Institute of Molecular Biology is a governmental research organization that is part of the Slovak Academy of Sciences. Currently it employs 59 researchers holding a university degree. Research activities of the Institute of Molecular Biology are focused on basic research of molecular principles in living systems. Molecular biology and microbiology are the main directions of the Institute's activity. Primary attention is focused on genetics and physiology of microorganisms, gene manipulations to enable their biotechnological exploitation, regulation of gene expression, and protein structural analysis. Dr. Jan Kormanec (Head of the Department of Gene Expression and current director of the Institute) has devoted more than 20 years to the investigation of the role of key regulatory proteins of gene expression, sigma factors of RNA polymerase, in differentiation, stress-response and pathogenicity of various bacteria (with the main focus on extraordinary heterogeneity of sigma factors in streptomycetes) and has published over 100 papers in the area with about 1600 citations (WOS). Additionally, his group has been focusing on the characterization of the regulation of secondary metabolite production in streptomycetes for a long time.

Staff involved: Dr. Jan Kormanec, Dr. Dagmar Homerova, Dr. Renata Novakova, Renata Knirschova.

SK Participant Project Cost: EUR 242 240

SK Participant EC Financial Contribution: EUR 183 680

Project Outcomes planned/real: STREPSYNTH aims to set-up a Streptomyces-based new industrial production platform (SNIP) for high value added bio-molecules. Streptomyces lividans was chosen as a bacterial host cell because it has been already shown to be highly efficient for the extracellular production of a number of heterologous molecules. It has a robust tradition of industrial fermentation and is fully accessible to genetic intervention. To develop SNIP our strategy has two components: first, we will construct a collection of reduced-genome *S. lividans* strains. This will metabolically streamline the cell and divest it of agents that may potentially hamper the production of the aimed heterologous molecules. Second, we will engineer synthetic parts and cassettes, i.e. reshuffled, rewired and repurposed genetic elements. These elements will serve three aims: transcriptional and translational optimization, sophisticated on-demand transcriptional regulation that will provide unique fermentation control and metabolic engineering of complete cellular pathways that will channel biomolecules to extracellular secretion. Synthetic parts and cassettes will be either directly incorporated into the genome or be hosted in the form of plasmids. Systems of biology tools will guide fine-tuning rounds of cell factory engineering and fermentation optimization. To set up SNIP, we chose two classes of bio-molecules with an obvious immediate industrial value and application: heterologous proteins and small molecules useful for multiple industrial purposes. These biomolecules are of immediate interest to SMEs that participate and guide the industrial relevance of STREPSYNTH. SNIP is a modular platform that can be repurposed for diverse future applications.

Slovak Participant's Role in Project: Based on expertise in the gene manipulation and regulation in streptomycetes, the main role of IMB SAS partner in the project will comprise of the generation and assessment of the genome-optimized *S. lividans* strains with the main role in deletion of sigma factor genes and characterization of the mutants. Based on their very well established experience with analysis of gene expression and regulatory circuits in secondary metabolite production, their additional role will be to optimize synthetic devices to control and optimize production of target molecules.

SUMFOREST

Project ID: 606803

Project Title: Tackling the challenges in sustainable and multifunctional forestry through enhanced research coordination for policy decisions

Project website: <http://www.forestplatform.org/en/research-funding/era-net-funding/sumforest>

Project Start Date: 2014-01-01

Project End Date: 2017-12-31

Project Total Cost: EUR 2 170 284.6

Project EC Financial Contribution: EUR 1 999 999

Slovak participant Name: MINISTERSTVO PODOHOSPODARSTVA A ROZVOJA VIDIEKA SLOVENSKEJ REPUBLIKY

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Contact person: Dr. Boris Greguska email/ phone: boris.greguska@land.gov.sk, +421 2 59266 519

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MINISTRSTVO ZA IZOBRAZEVANJE, ZNANOST IN ŠPORT – SLOVENIA

BUNDESMINISTERIUM FÜR ERNÄHRUNG, LANDWIRTSCHAFT UND VERBRAUCHERSCHUTZ GERMANY

BUNDEANSTALT FÜR LANDWIRTSCHAFT UND ERNÄHRUNG – GERMANY

DEPARTMENT OF AGRICULTURE, FOOD AND THE MARINE - ÉIRE/IRELAND

INSTYTUT BADAWCZY LESNICTWA – POLAND

NORGES FORSKNINGSRAD – NORWAY

MINISTRY OF ENVIRONMENT ENERGY AND CLIMATE CHANGE – GREECE

NORDISK MINISTERRADS SEKRETARIAT – DENMARK

ECOFOR GIP-GROUPEMENT D'INTERET PUBLIC ECOSYSTEMES FORESTIERS – FRANCE

FORSKNINGSRÅDET FÖR MILJÖ, ARELLA NÄRINGAR OCH SAMHÄLLSBYGGANDE – SWEDEN

FORESTRY COMMISSION RESEARCH AGENCY - UNITED KINGDOM

MINISTRSTVO ZA KMETIJSTVO IN OKOLJE – SLOVENIA

DEMOCRITUS UNIVERSITY OF THRACE – GREECE

FEDERAL DEPARTMENT FOR ENVIRONMENT TRANSPORTS ENERGY AND COMMUNICATION SWITZERLAND

LIETUVOS RESPUBLIKOS APLINKOS MINISTERIJA – LITHUANIA

MINISTERSTVO PODOHOSPODARSTVA A ROZVOJA VIDIEKA SLOVENSKEJ REPUBLIKY, MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT - SLOVAKIA

INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA – SPAIN

EUROPEAN FOREST INSTITUTE - SUOMI/FINLAND

LATVIJAS LAUKSAIMNIECIBAS UN MEZA ZINATNU AKADEMIJA BIEDRIBA – LATVIA

SS. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE - THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA

MINISTERO DELLE POLITICHE AGRICOLE ALIMENTARI E FORESTALI – ITALY

MINISTRY OF AGRICULTURE AND FORESTRY - SUOMI/FINLAND

Project Description: The important climatic, environmental, socio-economic and land-use changes taking place at global, regional and local levels, pose new challenges for meeting the multifunctional demands on European forest resources, and for their sustainable management. In the European Union the formulation of forest policies is in the competence of the Member States and although the Treaties of the EU make no provision for a common forest policy there are a high number of EU policies and directives affecting European forests and the forest-based sector. Thus the current forest policy environment is fragmented, complex and sometimes contradictory. Furthermore, European forests consist of a wide diversity of forest ecosystems and tree species which provide different goods and services that are affected differently by climate and land-use changes. Therefore, a proper understanding of such regional differences is needed for the creation of mutual understanding on sustainable forest management (SFM) and multifunctional forestry, providing a solid basis for policy decisions.

Project Objectives: In this complex context, research-based information and knowledge should be the basis for developing adaptive management tools and models, new innovation frameworks and coherent policies to ensure implementation of SFM and thus the multifunctional role of European forests. However, European forest research is – with only a few exceptions - still fragmented and enhanced co-operation and coordination of research activities carried out at regional and national levels is urgently needed. In this context, reinforcing scientific cooperation on European forests through a transnational ERA-NET, which will also build new cooperation arrangements with EU neighbourhood regions, will reduce fragmentation and maximise the impact of research activities on SFM and multifunctional forestry.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 13 204

SK Participant EC Financial Contribution: EUR 13 203.6

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

TRANSFOP

Project ID: 265601

Project Title: Transparency of Food Pricing

Project website: <http://www.transfop.eu/>

Project Start Date: 2011-01-01

Project End Date: 2013-12-31

Project Total Cost: EUR 1 299 966.4

Project EC Financial Contribution: EUR 999 992

Slovak participant Name: SLOVAK AGRICULTURAL UNIVERSITY IN NITRA

Slovak participant address: Tr. A. Hlinku 2, 949 76 Nitra

Contact person: Prof. Ján Pokrivčák, email/ phone: jan.pokrivcak@uniag.sk, +421 37 641 4593

Partners of the Consortium:

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GEORG-AUGUST-UNIVERSITAET GOETTINGEN STIFTUNG OEFFENTLICHEN RECHTS-GERMANY

CHRISTIAN-ALBRECHTS-UNIVERSITAET ZU KIEL – GERMANY

THE UNIVERSITY OF NOTTINGHAM - UNITED KINGDOM

SLOVENSKA POLNOHOSPODARSKA UNIVERSITA V NITRE, SLOVAK AGRICULTURAL UNIVERSITY IN NITRA- SLOVAKIA

UNIVERSITA CATTOLICA DEL SACRO CUORE – ITALY

MAGYAR TUDOMANYOS AKADEMIA KOZGAZDASAGTUDOMANYI INTEZET – HUNGARY
CENTMA GMBH – GERMANY

UNIVERZA NA PRIMORSKEM- UNIVERSITA DELLA PRIMORSKA UNIVERSITA DEL LITORALE SLOVENIA

CENTRE FOR EUROPEAN POLICY STUDIES - BELGIUM

FONDATION JEAN-JACQUES LAFFONT, TOULOUSE SCIENCES ECONOMIQUES – FRANCE

CENTRE DE RECERCA EN ECONOMIA I DESENVOLUPAMENT AGROALIMENTARI-UPC-IRTA SPAIN

WIRTSCHAFTSUNIVERSITAT WIEN - AUSTRIA

Project Description: The TRANSFOP project is organised across a number of inter-related themes (the experience of food price inflation across the EU, theoretical and empirical approaches to price transmission, retailer-manufacturer interactions, factor market imperfections and contract enforcement issues in the food supply chain, the role and impact of small and medium enterprises in the EU food sector, and mergers and acquisitions in the food sector.

Project Objectives: The overall objective of this project is to address the key aspects of the food chain both that determine the transmission of price changes from farm to consumer levels, emphasising the role of competition in the intermediate and retail stages of the food chain and the broader regulatory environment in which firms in food supply chains across the EU compete. Given that the characteristics of the food sector vary considerably throughout the member states of the EU, and the observation that experience resulting from the recent commodity price spikes were significantly different across many countries, a key feature of the project will be to address how the variation in the structure of the food chain across different EU Member States contributes to food price adjustment in individual countries.

Further, the project will address on-going developments in the food chain with regard to various aspects of vertical coordination in food supply chains, consolidation in the food sector, how the regulatory environment in which firms compete affects the overall functioning of food supply chains across the EU and the extent to which these issues also impact on SMEs. To this end, the project will address the issue of price adjustment in various dimensions across EU Member States, the selection of Member States reflecting differences in industry structure, the regulatory environment in which firms compete and the experiences they have recently faced with regard to commodity price shocks. In addressing these issues, a selection of different commodity chains (both ,long? and ,short?) will form the basis of the analysis. The research project will be expected to result in significant new insights that address the functioning of food supply chains across the EU Member States that impact on food pricing transparency throughout the EU. To this end, the researchers will interact with stakeholder groups representing interests throughout the food chain in forming a potential Action Plan.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 394 64

SK Participant EC Financial Contribution: EUR 29 598

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

1. Specific programme
COOPERATION

*1.3 Information and
communication technologies*



ADAPT4EE

Project ID: 288150

Project Title: Occupant Aware, Intelligent and Adaptive Enterprises

Project website: <http://www.adapt4ee.eu>

Project Start Date: 2011-11-01

Project End Date: 2014-10-31

Project Total Cost: EUR 3 738 195

Project EC Financial Contribution: EUR 2 794 000

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice

Slovak participant address: LETNÁ 9, 042 00 KOŠICE

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Partners of the Consortium:

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TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE- SLOVAKIA

ASSOCIACAO ACADEMICA DE COIMBRA-ORGANISMO AUTONOMO DE FUTEBOL PCUP - PORTUGAL

BOC INFORMATION TECHNOLOGIES CONSULTING LIMITED - ÉIRE/IRELAND

UNIVERSIDAD DE NAVARRA - SPAIN

HYPERTECH AE - GREECE

ALMENDE B.V. - NETHERLANDS

ISA - INTELLIGENT SENSING ANYWHERE S.A. - PORTUGAL

FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V. - GERMANY

Project Description: Adapt4EE aims at augmenting the contemporary architectural envelope by incorporating business and occupancy related information thus providing a holistic approach to the planning, design & evaluation of energy performance of construction products at an early design phase and prior to their realization.

Adapt4EE aims to deliver and validate a holistic energy performance framework that incorporates architectural metadata and environmental parameters (BIM), critical business models (BPM), treating occupants as the central reference point. The Adapt4EE framework, identifying and analysing occupancy behaviour (presence and movement) will align energy consumption points to all interrelated enterprise aspects (business processes, enterprise assets and utility state and operations).

Project Objectives: Adapt4EE will develop an enhanced semantic enterprise data model that treats, learns and manages the enterprise environment as an intelligent agent, perceives environmental state using multi-type sensors and information modalities. The Adapt4EE Enterprise model will incorporate business processes and occupancy data. It will also constitute a formal model for enterprise energy performance measuring, monitoring, simulation, prediction and optimization. The model will be calibrated during the training phase based on sensor data captured during the operation and then applied and evaluated in real-life every day enterprise operations. More specifically the Adapt4EE Enterprise models will allow for the proactive identification of optimum local adaptations of enterprise utility operations, based on predictions of possible occupancy patterns and respective business operations and energy profiles.

Adapt4EE will provide a set of Open Business Reference models as well as respective methods and tools for modelling and simulating the real life operation of construction products, thus allowing for more accurate and realistic evaluation of the energy impact of alternative design and planning decisions.

Profile of Slovak Participant/ -s: Technical University of Kosice (TUKE) consists of nine faculties with around 16 000 full-time undergraduate students. It employs 900 teachers work and the same number of research and administrative staff. Technical University of Kosice is the driver of ICT innovation and development in the Slovakia region. The main faculties related to the business, innovation and networked economy are the Faculty of Economics, Engineering and Informatics and BERG. Their research projects (5,6,7RP) focus on business networking, socio-economic analysis of ICT impact, e-business, trust building in the business networks, knowledge management, web technologies, logistics, eGovernment and regional development. The mission of TUKE is to provide its environment with scientific and technological knowledge basis, innovation and workforce, in order to form beneficial and sustainable future and a high quality of life. This will be achieved at TUKE by innovative research and excellent education in all scientific branches of respective University Faculties. Because of our scientific excellence we are the most successful organization in FPx projects in Slovakia, esp. in IST. TUKE is active in knowledge transfer, regional development and influencing public life through participation in several clusters and associations, esp. IT Valley, CEIT, ALADIN, etc. or in a very close cooperation with self-governing regions, regional municipalities, ministries, the chamber of commerce and relevant regional and national stakeholders.

SK Participant Project Cost: EUR 278 880

SK Participant EC Financial Contribution: EUR 211 680

Project Outcomes planned/real: Framework, identifying and analysing occupancy behaviour (presence and movement) aligning energy consumption points to all interrelated enterprise aspects (business processes, enterprise assets and utility state and operations).

Slovak Participant's Role in Project: Enhanced semantic enterprise data model that treats, teaches or examines s and manages the enterprise environment as an intelligent agent.

ADMIRE

Project ID: 215024

Project Title: Advanced Data Mining and Integration Research for Europe

Project website: <http://www.admire-project.eu/index.html>

Project Start Date: 2008-03-01

Project End Date: 2011-05-29

Project Total Cost: EUR 4 241 573

Project EC Financial Contribution: EUR 3 001 662

Slovak participant Name: USTAV INFORMATIKY, SLOVENSKA AKADEMIA VIED, Institute of Informatics of Slovak Academy of Sciences

Slovak participant address: DÚBRAVSKÁ CESTA 9, 845 07 BRATISLAVA

Contact person email/ phone: Mr. Ladislav Hluchy, ladislav.hluchy@savba.sk, +4212 54771004

Partners of the Consortium:

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UNIVERSITAET WIEN - AUSTRIA

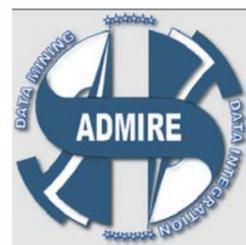
COMARCH S.A. - POLAND

FUJITSU LABORATORIES OF EUROPE LIMITED - UNITED KINGDOM

UNIVERSIDAD POLITECNICA DE MADRID - SPAIN

USTAV INFORMATIKY, SLOVENSKA AKADEMIA VIED, INSTITUTE OF INFORMATICS OF SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: Today's growing wealth of digital data in Europe is poorly exploited. Advances in storage, pervasive computing, digital sensors and instrumentation have led to massive growth in the volume of data collected and the number and complexity of data repositories. This growing wealth of data has an increasing potential to yield great benefits to citizens, science and business as it contains vital hidden knowledge. Typically, to extract that knowledge requires data mining over combinations of data from multiple data resources. Today, designers, diagnosticians, decision makers or researchers who need such knowledge, face difficult obstacles. To extract information from heterogeneous and distributed sites, they have to specify the sources of data in much detail, the mechanisms for integrating them and the data mining strategies for exposing the hidden gems of information. Consequently, with the current state of the art, most of that hidden knowledge remains undiscovered.



Project Objectives: ADMIRE will accelerate access to and increase the benefits that can be gained from data exploitation for the European citizen and economy. It will achieve this by delivering consistent and easy to use technology for extracting information and knowledge. To cope with complexity, change and heterogeneity of services, data, and processes, an abstract view of data mining and integration will be provided. This will provide power to users and developers of data mining and integration processes.

The ADMIRE infrastructure will enable a set of gateways connected together over the Internet and Grid. The gateways communicate with one another using ADMIRE-developed standard representations over the Infrastructure Service Bus. Each gateway provides a core set of data mining and integration services, which can be driven using a high-level language.

Profile of Slovak Participant/ -s: The Institute of Informatics of the Slovak Academy of Sciences has a successful history of research in the area of high-performance computing, grid computing, and computer science applications in environmental research and management. The Department of Parallel and Distributed Computing (PDC) specialises in two main research areas - knowledge management and grid computing. It was a partner in several previous research project in areas similar to the one proposed here, namely: o CROSSGRID (IST-2001-32243) -II SAS has provided one application - an earlier version of the Flood application. K-Wf Grid (IST-2004-511385) developed an integrated knowledge-based platform for distributed applications based on SOA. The platform includes tools for automatic workflow construction and management of SOA applications, integrated with ontology concepts and using knowledge management to optimize its work. II SAS initiated the project, and has developed an easy-to-use and customizable portal for the platform, knowledge management and integration tools, and also further improved version of the Flood application, based on WS-RF technology. EGEE (INFOSO-RI-031688) and its successors are infrastructure projects, providing an extensive network of grid resources to several large scientific applications, and it is also trying to further extend the potential and exploitation of grids in the EU. DEGREE (FP6-034619) is a project applying grid systems to the Earth science community in Europe. II SAS is the leader of the project Together with several smaller national projects in which II SAS has participated, these provided II SAS PDC team with extensive experience in knowledge management, large-scale environmental applications, grid technologies, and also data management and integration.

SK Participant Project Cost: EUR 513 387

SK Participant EC Financial Contribution: EUR 385 540

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: Research of abstract model and system language. Architecture for data mining and integration. Final product and support. ADMIRE tools. Validation and testing of integrated platform DMI.

AUTONET2030

Project ID: 610542

Project Title: Co-operative Systems in Support of Networked Automated Driving by 2030

Project website: <http://www.autonet2030.eu/>

Project Start Date: 2013-11-01

Project End Date: 2016-10-31

Project Total Cost: EUR 4 589 042

Project EC Financial Contribution: EUR 3 349 570

Slovak participant Name: BROADBIT SLOVAKIA S.R.O.

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VOLVO TECHNOLOGY AB - SWEDEN

BROADBIT SLOVAKIA S.R.O. - SLOVAKIA

CENTRO RICERCHE FIAT SCPA - ITALY

HITACHI EUROPE LIMITED - UNITED KINGDOM

ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS - ARMINES - FRANCE

ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE - SWITZERLAND

INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS - GREECE

BASELABS GMBH - GERMANY

Project Description: AutoNet2030 shall develop and test a co-operative automated driving technology, based on a decentralised decision-making strategy which is enabled by mutual information sharing among nearby vehicles. The project is aiming for a 2020-2030 deployment time horizon, taking into account the expected preceding introduction of co-operative communication systems and sensor based lane-keeping/cruise-control technologies. By taking this approach, a strategy can be worked out for the gradual introduction of fully automated driving systems, which makes the best use of the widespread existence of co-operative systems in the near-term and makes the deployment of fully automated driving systems beneficial for all drivers already from its initial stages.

Project Objectives: The main idea is to achieve intelligent decision-making in fully automated vehicles through local group formation, by using co-operative communications to exchange input data and manoeuvring control commands. Such co-operation is meant to function not only among automated vehicles, but it extends also to manually driven vehicles; automated vehicles will locally coordinate the manoeuvring of all surrounding vehicles, making driving thereby more predictable and safer also for manually driven cooperative vehicles. This system shall be optimised to make safe, predictable, and efficient manoeuvring decisions. The control algorithm shall be aware of the precise dynamics of surrounding vehicles, the wider view of lane interconnections/destinations, and the possible

alternative manoeuvres to select in case of unexpected events. Drivers will receive manoeuvring instructions on their HMI; the ergonomics and non-distraction of this new user interface shall be validated. In summary In conclusion or To summarise, the automotive industry will have answers for the upcoming transportation challenges of ever-growing urban conglomerations and will have a deployment strategy of automated driving which benefits all drivers already during the transition period leading to a full transport automation.

Profile of Slovak Participant/ -s: BroadBit: BroadBit has a long research experience in the field of vehicular communication. BroadBit has successfully contributed to the full technology development cycle of 5.9 GHz 802.11p based co-operative systems; starting from FP7 research project work (GeoNet), continuing with the successful standardisation of GeoNet outcome at ETSI ITS as active contributors, and finally working under ETSI subcontracting on the conformance and interoperability testing of pre-commercial co-operative device implementations ('Co-operative Mobility Services' plug-tests #1 and #2, jointly coordinated by ETSI and Drive-C2X project). Currently, BroadBit is contributing to the development of EV-specific communication interfaces within the PowerUp FP7 project (for prototyping of V2G interface) and the Mobility2.0 FP7 project (for optimisation of commuting EV journey management). BroadBit is an active contributor to the standardisation of cooperative communication systems at the ETSI ITS committee and at the ISO/IEC 15118 working group.

SK Participant Project Cost: EUR 470 884

SK Participant EC Financial Contribution: EUR 437 118

Project Outcomes planned/real: AutoNet2030 shall develop and test a co-operative automated driving technology, based on a decentralised decision-making strategy which is enabled by mutual information sharing among nearby vehicles. The project is aiming for a 2020 - 2030 deployment time horizon, taking into account the expected preceding introduction of co-operative communication systems and sensor based lane-keeping/cruise-control technologies. By adopting this approach, a strategy can be worked out for the gradual introduction of fully automated driving systems, which makes the best use of the widespread existence of co-operative systems in the near-term and makes the deployment of fully automated driving systems beneficial for all drivers already from its initial stages.

Slovak Participant's Role in Project: BroadBit: Project coordination, Standardisation of vehicle-to-vehicle communications for automated driving.

C4E

Project ID: 610650

Project Title: Cloud for Europe

Project website: <http://www.cloudforeurope.eu/>

Project Start Date: 2013-06-01

Project End Date: 2016-11-30

Project Total Cost: EUR 13 234 478

Project EC Financial Contribution: EUR 9 865 000

Slovak participant Name: MINISTERSTVO FINANCIÍ SLOVENSKEJ REPUBLIKY, Ministry of Finance of the Slovak Republic

Slovak participant Address: Štefanovičova 5, 817 82 Bratislava

Contact person: Nadežda Nikšová, +421 2 59 582 423

Partners of the Consortium:

FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY

TECHNISCHE UNIVERSITAET GRAZ - AUSTRIA

BUNDESRECHENZENTRUM GMBH - AUSTRIA

ZENTRUM FUR SICHERE INFORMATIONSTECHNOLOGIE – AUSTRIA - AUSTRIA

SERVICE PUBLIC FEDERAL TECHNOLOGIE DE L'INFORMATION ET DE LA COMMUNICATION - BELGIUM

EUROPEAN ELECTRONIC MESSAGING ASSOCIATION AISBL - BELGIUM

KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM

BUNDESAMT FUR SICHERHEIT IN DER INFORMATIONSTECHNIK - GERMANY

MAJANDUS JA KOMMUNIKATSIOONIMINISTERIUM - ESTONIA

E-RIIGI AKADEEMIA SIHTASUTUS E-GOVERNANCE ACADEMY EGA - ESTONIA

MINISTERIO DE HACIENDA Y ADMINISTRACIONES PUBLICAS - SPAIN

ASSOCIAZIONE TRENTO RISE - ITALY

AGENZIA PER L'ITALIA DIGITALE - ITALY

MINISTERIE VAN ECONOMISCHE ZAKEN - NETHERLANDS

MINISTERIE VAN FINANCIEN DIRECTORAAT GENERAAL BELASTINGDIENST - NETHERLANDS

ENTIDADE DE SERVICOS PARTILHADOS DA ADMINISTRACAO PUBLICA IP - PORTUGAL

AGENCIA PARA A MODERNIZACAO ADMINISTRATIVA IP - PORTUGAL

ASSOCIAÇÃO CCG/ZGDV - CENTRO DE COMPUTAÇÃO GRÁFICA - PORTUGAL

INESC ID - INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES, INVESTIGACAO E DESENVOLVIMENTO EM LISBOA - PORTUGAL

UNIVERSIDADE DO PORTO - PORTUGAL

INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE IN INFORMATICA - ICI BUCURESTI - ROMANIA

MINISTRSTVO ZA NOTRANJE ZADEVE - SLOVENIA

MINISTERSTVO FINANCIÍ SLOVENSKEJ REPUBLIKY, MINISTRY OF FINANCE OF THE SLOVAK REPUBLIC - SLOVAKIA

TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY

Project Description: Cloud for Europe supports public sector cloud use as collaboration between public authorities and the industry. The project identifies obstacles, finds innovative solutions and builds trust in European cloud computing.

Cloud for Europe uses pre-commercial procurement as an instrument for public sector innovation. Pre-commercial procurement identifies innovative solutions for cloud services that best fit public sector needs, but also provides better information to public procurers about the potential of cloud services.

Project Objectives: Cloud for Europe (C4E) addresses the objectives of the European Cloud Partnership program. It gives a clear view of the public sector requirements and usage scenarios for Cloud Computing in Europe. The main objectives of C4E are to remove the obstacles for Cloud adoption and to harmonize the requirements from different public organisations beyond national borders. Stakeholders ranging from the industry, purchasers, government users and citizens are involved in this process. The analytical phase will be followed by a pre-commercial procurement (PCP) for services that are identified as missing or need to be adopted for Governments use. To overcome legal issues, C4E will spend efforts to accomplish suitable contractual terms and conditions for future Cloud procurements. The C4E consortium brings together a fine range of experts and demonstrates a sound balance between legal, procurement and technology experience. By performing market and requirements analysis on current technologies and legal issues, gaps will be identified and documented. Continuous dialog with stakeholders is essential from the beginning of the project. This will stimulate industry, especially small and medium enterprises (SMEs) to participate in the PCP and to develop solutions needed by the public sector. Eight Consortium partners indicated their tentative intent to invest in the PCP phase. How the costs, risks and benefits of the PCP phase will be distributed among all partners will be determined in negotiation with the European Commission and the partners. Each partner will do the investment in the PCP phase as stated in a contract between the partners that is to be established. Lessons learned and the developed Cloud services will be published for future re-use of the PCP instrument in other R&D projects. C4E will build trust in Cloud Computing by applying PCP as an instrument for industry innovation and simultaneously enhance cloud adoption in the public sector.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 52 428

SK Participant EC Financial Contribution: EUR 49 998

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

CEED ISSUE

Project ID: 632807

Project Title: CEE and EU Development by Improving Start-up Support Ecosystem for take-up of FI-PPP results

Project website: N/A

Project Start Date: 2014-07-01

Project End Date: 2016-06-30

Project Total Cost: EUR 6 343 280

Project EC Financial Contribution: EUR 6 199 940

Slovak participant Name: THE SPOT

Slovak participant address: Škovránčia 1, 811 06 Bratislava

Contact person: Mrs. Eva Havasova, eva@thespot.sk, +421 908 735 288

Partners of the Consortium:

CIVITTA EESTI AS - ESTONIA

WISE GUYS INVESTMENT OU - ESTONIA

DIGITAL FACTORY ZARTKORUEN MUKODO RT - HUNGARY

VSI OPEN COFFEE CLUB VILNIUS - LITHUANIA

THE SPOT - SLOVAKIA

STARTUP YARD LIMITED - UNITED KINGDOM

Project Description: N/A

Project Objectives: Objectives of the CEED ISSUE project are as follows:

On an EU level, to evolve the technological developments and trials taking place in FI-PPP phases one and two into seed-type activities generating actual take-up of innovative Internet services and applications. On the CEE level, to radically improve the adoption rate of the FI-PPP Generic, Specific Enablers and use case platforms across the CEE region, focusing mainly on Social connected TV, Smart city services, Virtual Factory and Smart buildings Usage Areas. Actions to be implemented within the CEED ISSUE project are: First, to bring together the startup ecosystem of accelerators, mentors, investors, piloting partners, technology partners, other FI-PPP 1.8 projects and innovation actions to publish widely the FI-PPP and CEED ISSUE initiatives and support successful implementation of the startup ideas during acceleration. Second, to scope, organise and manage 2 open calls. Third, to implement two acceleration programmes to support the start-up teams in all aspects related to successful innovation and delivery of products and applications. During 24 months CEED ISSUE project will deliver the following outputs: 200 000 web entrepreneurs informed on CEED ISSUE Open Calls; further 400 000 stakeholders informed on FI-PPP and CEED ISSUE project; 2 CEED ISSUE Open Calls with a total of 1600-2000 applicants (800-1000 per call); 80-100 selected web-entrepreneurs in total (40-50 per Call); seed funding of € 50.000 - 60.000 (EC) + 10 % venture funding delivered to each beneficiary for participation in acceleration programmes; 2 x 4-month acceleration programmes in 5 incubators with 8-10 teams participating in each; 80-100 innovative products and applications developed by the accelerated start-ups. Spill-over effects and impacts of these seed-type activities to other regions are ensured by delivery of 80-100 innovative products and applications that target and establish their businesses in EU and further markets.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 219 600

SK Participant EC Financial Contribution: EUR 204 260

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

COGEU

Project ID: 248560

Project Title: COgnitive radio systems for efficient sharing of TV white spaces in EUropean context

Project website: <http://www.ict-cogeu.eu/>

Project Start Date: 2010-01-01

Project End Date: 2012-12-31

Project Total Cost: EUR 5 572 816

Project EC Financial Contribution: EUR 3 648 365

Slovak participant Name: TOWERCOM AS

Slovak participant address: Cesta na Kamzik 14, 831 01 Bratislava

Contact person email/ phone: info@towercom.sk, +421 2 49 220 111

Partners of the Consortium:

INSTITUTO DE TELECOMUNICACOES - PORTUGAL

PORTUGAL TELECOM INOVACAO SA - PORTUGAL

POZNAN UNIVERSITY OF TECHNOLOGY - POLAND

INSTITUT FUER RUNDFUNKTECHNIK GMBH - GERMANY

ROHDE & SCHWARZ GMBH&CO KOMMANDITGESELLSCHAFT - GERMANY

UNIVERSITY OF THE AEGEAN-RESEARCH UNIT - GREECE

THALES COMMUNICATIONS & SECURITY SAS - FRANCE

SIGINT SOLUTIONS LTD - KYPROS/KIBRIS

THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD

OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR

DUBLIN - ÉIRE/IRELAND

TOWERCOM AS- SLOVAKIA

Project Description: The complete transition from analogue to the digital TV is planned in Europe for 2012. This will release significant amount of valuable spectrum in VHF/UHF bands. In fact, the Digital TV Switchover provides a once in a lifetime opportunity for the development of innovative services and the introduction sophisticated new technologies into the VHF/UHF bands. However, despite the grand words about opening up a new band to support low cost, low power, ubiquitous access and innovative new providers, there are many obstacles to TV white spaces systems. The creation of workable devices that clearly demonstrate and prove that no harmful interference is caused to broadcasters or other licensed systems is one of those challenges as is the completion of standards.

Project Objectives: The CogEU proposal aims to take advantage of the transition to digital TV by developing cognitive radio systems that leverage the favourable propagation characteristics of the TVWS through the introduction and promotion of real-time secondary spectrum trading and the creation of new spectrum commons in the upper band of the cleared spectrum. CogEU will also define new methodologies for TVWS equipment certification and compliance addressing coexistence with the DVB-T/H European standard. Three main application scenarios with good market potential will be investigated: Cellular, WiFi and WiMax network extension over TV white spaces Mobile TV over TV white spaces Public safety applications over TVWS As a consequence the project should help the European decision makers and standards to move the TV spectrum management paradigm towards a more liberal and efficient method, by providing sufficient evidence on the technology and economic viability of its deployment. In fact the project timeframe perfectly matches the TV Digital switchover roadmap planned for most of the European countries.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 325 740

SK Participant EC Financial Contribution: EUR 162 870

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

COMMIUS

Project ID: 213876

Project Title: Community-based Interoperability Utility for SMEs

Project website: www.commius.eu

Project Start Date: 2008-02-01

Project End Date: 2011-01-31

Project Total Cost: EUR 3 833 224

Project EC Financial Contribution: EUR 2 600 788

Slovak participant Name: USTAV INFORMATIKY, SLOVENSKA AKADEMIA VIED, Institute of Informatics of Slovak Academy of Sciences

Slovak participant address: DÚBRAVSKÁ CESTA 9, 845 07 BRATISLAVA

Contact person: Mr. Ladislav Hluchy, email/ phone: ladislav.hluchy@savba.sk / +4212 54771004

Partners of the Consortium:

SOFTECO SISMAT SRL - ITALY

USTAV INFORMATIKY, SLOVENSKA AKADEMIA VIED, INSTITUTE OF INFORMATICS OF SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

AITEK SOCIETA'PER AZIONI - ITALY

THE UNIVERSITY OF MANCHESTER - UNITED KINGDOM

TECHFIN SRL - ITALY

DEUTSCHES FORSCHUNGSZENTRUM FUER KUENSTLICHE INTELLIGENZ GMBH - GERMANY

FEDERACION ESPANOLA DE ENTIDADES DE INNOVACION Y TECNOLOGIA - SPAIN

TECHNISCHE UNIVERSITAET WIEN - AUSTRIA

SINGULARLOGIC ANONYMOS ETAIRIA PLIROFORIAKON SYSTIMATON & EFARMOGON PLIROFORIKIS - GREECE

ATOS ORIGIN SOCIEDAD ANONIMA ESPANOLA - SPAIN

Project Description: More than 99% of European enterprises are SMEs. While collaboration with other enterprises provides the potential for improving business performance, enterprise interoperability research is yet to produce results which can be used by SMEs without the need for high start-up costs (learning costs as well as system purchasing and installation costs).

For a solution to be taken up by SMEs it must offer both, a 'zero costs of entry' and 'a zero time for set-up' to the SMEs; its initial interaction with the system should follow familiar interaction patterns based on existing tools such as email or a web browser. Commius aims to deliver an adaptable and customisable software prototype, providing SMEs with a 'zero-cost of entry' into interoperability using the ideas behind the Interoperability Service Utility. This will be made possible by a number of innovative scientific, technical and business advances over the existing state-of-art.

Project Objectives: The project will build an interoperability solution for SMEs, allowing them to reuse existing and familiar applications for electronic communication. The solution will be downloaded with the SME's consent using automated self-installation routines. The solution will hook into their email infrastructure and collaboration systems such as Microsoft Exchange. It will then proceed to establish interoperability agreements with the peers of the SME at the levels of system, semantics and even process. Semantic analysis of actual enterprise data and documents - used within and exchanged between pairs of SMEs - will form a core part of this process.

The consortium will validate results using 3 business cases: one business case comes from a technological district of SMEs; one from cross border interoperability and collaboration for European export; and one from inter-enterprise resource planning.

Profile of Slovak Participant/ -s: II SAS is a leading research Institute in information technology of the Slovak Academy of Sciences, established in Bratislava, Slovakia in 1956. The Institute has around 70 scientific researchers with the scope of research and development activities including informatics, information technology, robotics, control theory and artificial intelligence. II SAS has been participating in many IST and European funded projects as well as in the Slovak national funded projects related to knowledge & semantics. From its history, II SAS has experience in knowledge oriented technologies and service-based architectures fields, which has been evolved in the IST EU 5FP project Pellucid and deepened in the IST EU 6FP K-Wf Grid project as well as in several national projects. The research and development in the relevant scientific areas, the use and integration of advanced technologies such as knowledge management, semantics, semantic annotation, semantic based communication processing, autonomous cooperating agents, organisational memories, business and process modelling, and metadata for accessing document repositories coming from the previous successful projects, as well as from strong technological expertise make the excellent starting point for the incoming project Commius. IISAS will lead WP4 System Interoperability, where strong technological expertise and previous research in service oriented architectures, agents and knowledge based systems built on top of email communication will be exploited. IISAS will also contribute to WP5 semantic interoperability with semi-automatic pattern based semantic annotation which will provide semantic metadata for processed data, messages, text or documents.

SK Participant Project Cost: EUR 393 584

SK Participant EC Financial Contribution: EUR 297 272

Project Outcomes planned/real: System supporting enterprise interoperability using existing infrastructure email and web. Smart processing of email communication with recommendation of information and activities for enterprise user. Results can be used also for Named Entity recognition in emails and documents, for email search and analysis and email based recommendation.

Slovak Participant's Role in Project: WP4 System Interoperability: provide basic infrastructure for interoperability solution over SMTP protocol. UISAV is the leader of WP4. WP5 Semantic Interoperability: methods for text analysis and extraction will support techniques for semi-automatic pattern based semantic annotation. These will facilitate the delivery of formalized interpretations of processed text and legacy system data according to existing ontology-based knowledge models. The results can be used by other semantic or process interoperability components. WP7 Implementation of Basic Interoperability Modules based on the components developed in WP4-WP6 for real applications.



COMSODE

Project ID: 611358

Project Title: Components Supporting the Open Data Exploitation

Project website: <http://www.comsode.eu/>

Project Start Date: 2013-10-01

Project End Date: 2015-09-30

Project Total Cost: EUR 1 839 863

Project EC Financial Contribution: EUR 1 469 000

SLOVAK PARTICIPANT 1

Slovak participant Name: ADDSEN S.R.O.

Slovak participant address: VEĽKOMORAVSKÁ 18, 901 01 MALACKY

Contact person email/ phone: Miroslav Konečný, konecny@addsen.eu, 00421 949 048 163

SLOVAK PARTICIPANT 2

Slovak participant Name: MINISTERSTVO VNUTRA SLOVENSKEJ REPUBLIKY, Ministry of Interior of the Slovak Republic

Slovak participant address: Pribinova 2, 81272 BRATISLAVA

Contact person email/ phone: Mr. Filip Vagač, filip.vagac@minv.sk, +421 2 50 944 981

Partners of the Consortium:

UNIVERSITA' DEGLI STUDI DI MILANO-BICOCCA - ITALY

UNIVERZITA KARLOVA V PRAZE - CZECH REPUBLIC

SPINQUE BV - NETHERLANDS

EEA SRO - CZECH REPUBLIC

ADDSSEN S.R.O. - SLOVAKIA

MINISTERSTVO VNUTRA SLOVENSKEJ REPUBLIKY, MINISTRY OF INTERIOR OF THE SLOVAK REPUBLIC - SLOVAKIA

Project Description: The project COMSODE is an SME-driven RTD project aimed at progressing the capabilities in the field of Open Data re-use. The concept is an answer to barriers still present in this young area: data published by various Open Data catalogues are poorly integrated; quality assessment and cleansing are seldom addressed. Costs of Open Data consumption are high and Open Data usage is still poor. COMSODE tries to change the game.

Project Objectives: Data consumers have to integrate the data before they can use them which significantly increases the costs of open data consumption and hinder open data usage and uptake, etc. COMSODE has the following main objectives: (1) To create a publication platform called Open Data Node that builds on results of previous research and development in the linked data field. Its mission is to bring results from research environment into real-world for people, SMEs and other organizations to use and re-use (2) To create a methodology framework for an easy use of technology in operating conditions of typical public bodies and rigorously tested for traceability, usability and sustainability in a public body environment. This is going to be verified in three pilot implementations during the project. End user-communities will be involved EU-wide to set up a use case framework within which the requirements of heterogeneous organisations can be clearly understood. Provided feedback will be processed

into the final methodology and recommendations for re-use applications. These two results will enable new applications to emerge – some of them will be directly created in the project by consortium members (search service by SPINQUE) or by associated bodies (Semantic Web Company, Austria). The project will cooperate with activities under progress in the EU and internationally (consortium members were personally involved in many of them: e.g. LOD2, OGP, etc.). It is the project's ambition to lay the foundations for a data integration platform based on Open Data which will allow the re-use of data not only between public bodies and end-users but also among public bodies themselves: Public bodies can exchange information by using the same infrastructure and tools as end-users which will decrease costs of exchanging the data and in most cases this will also enhance the quality and speed-up of the exchange. What is even more important, OpenData APIs can be used by integration projects between public bodies, again saving costs and enhancing the quality of the resulting solution. This in turn strengthens OpenData publishing, with end-users benefiting again – a self-reinforcing loop.



SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: ADDSEN, LTD. is an SME based in Bratislava region, Slovakia. Its main focus is on RTD activities related to usability of research and innovation management. ADDSEN focuses on project management, demonstration and dissemination activities. Besides RTD management, ADDSEN delivers tailored research and development activities, studies, use cases, their validation and demonstration to potential users. ADDSEN contributes to usable research results in domains of ICT/security/transport/energy/social sciences. The core team has been practising innovation management since 2006 and has been actively involved in Framework Programme Seven (FP7) in numerous collaborative projects.

SK Participant Project Cost: EUR 262 047

SK Participant EC Financial Contribution: EUR 227 747

Project Outcomes planned/real: The project COMSODE is an SME-driven RTD project aimed at progressing the capabilities in the Open Data re-use field.

COMSODE has the following main objectives:

(1) To create a publication platform called Open Data Node that builds on results of previous research and development in the linked data field. Its mission is to bring results from research environment into real-world for people, SMEs and other organizations.

(2) To create a methodology framework for easy use of technology in operating conditions of typical public bodies and rigorously test traceability, usability and sustainability of the Open Data Node in a public body environment. End user-communities will be involved to set up or establish a use case framework within which the requirements of heterogeneous organisations can be clearly understood.

These two results will enable new applications to be created by consortium members or by associated bodies. It is the project's ambition to lay the foundations for a data integration platform based on Open Data which will allow the re-use of data not only between public bodies and end-users but also among public bodies themselves: Public bodies can exchange information by using the same infrastructure and tools as end-users which will decrease costs of exchanging the data and in most cases also enhance the quality and speed-up of the exchange. What is more, OpenData APIs can be used by integration between public bodies, again saving costs and enhancing the quality of the resulting solution. This in turns strengthens OpenData publishing, with the end-users benefiting.

Slovak Participant's Role in Project: ADDSEN Company works within the COMSODE project with public bodies on methodologies and measure the usability of guideline and applications (from the user-friendliness point of view, coherence with best practice, etc.) Typical mission of ADDSEN is the user requirements elicitation, evaluation of interim results and creating business cases applicable in real life. ADDSEN also organizes assessment centres to ensure that the project is still on the track and the centres also are a source of valuable feedback during development of activities. Exploitation and dissemination activities EU-wide are provided on a daily basis by the ADDSEN team.

The main role of the EEA Company is to build up the Open Data publication platform, APIs and tools for cross-platform development of applications based on Open Data. EEA already has the know-how and implementation tools that serve as a base for the key parts of expected functionality of the Open Datapublication platform which further supports the successful pilot applications. Moreover, EEA will re-use the outputs of the project for new services or the improvements of tools, methodologies and services that will exceed the project results.

SLOVAK PARTICIPANT 2

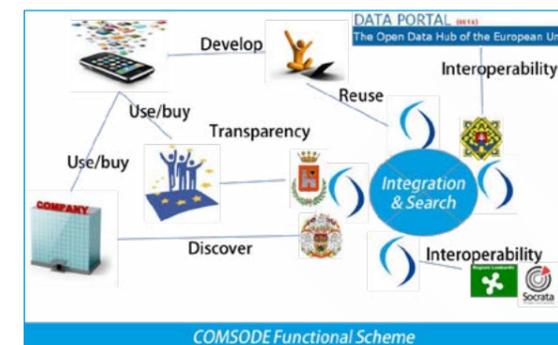
Profile of Slovak Participant/ -s: Office of Plenipotentiary for the Development of the Civil Society of the Government of the Slovak Republic - Ministry of Interior of Slovakia is the main governmental body responsible for development of Open Data concepts in Slovakia. Ministry of Interior has competences in new services for central government bodies and runs Working Group for Open Data. The ministry is a member of the EU standardisation initiatives in re-use of Open Data.

SK Participant Project Cost: EUR 147 520

SK Participant EC Financial Contribution: EUR 116 240

Project Outcomes planned/real: The project COMSODE is an SME-driven RTD project aimed at enhancing the possibilities of the Open Data re-use field.

COMSODE has the following main objectives: (1) To create a publication platform called Open Data Node that builds on results of previous research and development in the linked data field. Its mission is to bring results from research environment into real-world for people, SMEs and other organizations.



(2) To create a methodology framework for an easy use of technology in operating conditions of typical public bodies and rigorously test traceability and the usability and sustainability of the Open Data Node in a public body environment. End user-communities will be involved to establish a use case framework within which the requirements of heterogeneous organisations can be clearly understood.

These two results will enable new applications to be created by consortium members or by associated bodies.

It is the project's ambition to lay the foundations for a data integration platform based on Open Data which will allow the re-use of data not only between public bodies and end-users but also among public bodies themselves:

Public bodies can exchange information by using the same infrastructure and tools as end-users which will decrease costs of exchanging the data and in most cases also enhance the quality and speed-up of the exchange. What is even more, OpenData APIs can be used by integration between public bodies, again saving costs and enhancing the quality of the resulting solution. This in turns strengthens OpenData publishing, with end-users benefiting. Creating a publishing platform OpenData Node, creating methodological framework for publishing Open Data, obtaining a sufficient number of datasets for the project.

Slovak Participant's Role in Project: Slovak Ministry of Interior serves the role of a pilot case implementer of the new applications created within the COMSODE project that will suit their Open Data publication needs. Additionally, the Ministry contributes to the establishing of a clear methodology framework supporting the Open data use and re-use.

Role of the ministry in the project: Architecture and design of the publication platform - contribution; compilation of the list of datasets to be published and data analysis - contribution; development of methodologies including international standards and best practices - contribution; testing and validation – guarantors ; dissemination - contribution.

DEHEMS

Project ID: 224609

Project Title: Digital Environment Home Energy Management System

Project website: <http://www.dehems.eu/>

Project Start Date: 2008-06-01

Project End Date: 2011-07-31

Project Total Cost: EUR 3 728 473

Project EC Financial Contribution: EUR 2 878 434

Slovak participant Name: CORINEX COMMUNICATIONS A.S.

Slovak participant address: Klukatá 6, 821 05 Bratislava

Contact person: Mr. Peter Subotka, email/ phone: peter.subotka@corinex.com, +421 (0) 259 212000

Partners of the Consortium:

MANCHESTER CITY COUNCIL - UNITED KINGDOM
INSTITUTUL E-AUSTRIA TIMISOARA - ROMANIA
UNIVERSITATEA TEHNICA CLUJ-NAPOCA - ROMANIA
CLICKS AND LINKS LTD - UNITED KINGDOM
BRISTOL CITY COUNCIL - UNITED KINGDOM
THE UNIVERSITY OF SALFORD - UNITED KINGDOM
UNIVERSITY OF ROUSSE ANGEL KANCHEV - BULGARIA
ENERGY AGENCY OF PLOVDIV ASSOCIATION - BULGARIA
HILDEBRAND TECHNOLOGY LIMITED - UNITED KINGDOM
COVENTRY UNIVERSITY - UNITED KINGDOM
BIRMINGHAM CITY COUNCIL - UNITED KINGDOM
OBSHTINA IVANOVO – BULGARIA
CORINEX COMMUNICATIONS A.S.- SLOVAKIA

Project Description: DEHEMS will extend the current state of the art in intelligent meters, moving beyond energy „input“ models that monitor the levels of energy being used to an „energy performance model“ that also looks at the way in which the energy is used. It will bring together sensor data in areas such as household heat loss and appliance performance as well as energy usage monitoring to give real time information on emissions and the energy performance of appliances and services. It will enable changes to be made to those appliances/services remotely from the mobile phone or PC and provide specific energy efficiency recommendations, for the household. The impact will be to personalize action on climate change, and so help enable new policies such as Personal Carbon Allowances as well as supporting the move towards increased localized generation and distribution of energy.

Project Objectives: DEHEMS aims to extend the current state of the art in intelligent meters, moving beyond energy 'input' models that monitor the levels of energy being used to an 'energy performance model' that also looks at the way in which the energy is used. Bringing together sensor data in areas such as household heat loss and appliance performance as well as energy usage monitoring, it offers real time information on emissions and the energy performance of appliances and services. In turn the potential exists to make changes to appliances/services remotely from the mobile phone or PC. The system can also provide specific energy efficiency recommendations for the household.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

DIGIBIC

Project ID: 270120

Project Title: The DigiBIC Creative Industries Network unites leaders in research, innovation, industry and finance in order to optimise deployment of new ICT-based cultural and memory preservation services

Project website: <http://www.digibic-project.eu>

Project Start Date: 2010-12-01

Project End Date: 2013-05-30

Project Total Cost: EUR 1 531 288

Project EC Financial Contribution: EUR 1 197 988

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INSTITUT NATIONAL DE L'AUDIOVISUEL - FRANCE
MEMNON RESEARCH & DEVELOPMENT SA - BELGIUM
ASOCIACION PARA LA GESTION DEL CENTRO EUROPEO DE EMPRESAS E INNOVACION DE BURGOS - SPAIN
MEDIA DEALS - FRANCE
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TECHNOPORT SA - LUXEMBOURG (GRAND-DUCHÉ)
FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY
BAY ZOLTAN ALKALMAZOTT KUTATASI KOZHASZNU NONPROFIT KFT. - HUNGARY
BIC LAZIO SPA - ITALY
CONSIGLIO NAZIONALE DELLE RICERCHE – ITALY
CORDIA A.S.- SLOVAKIA

Project Description: DigiBIC is a 30 month project focused on the deployment of technologies and tools from applied research projects in cultural heritage, digital libraries and preservation to the wider Digital and Creative Industry (CI) sector and in particular to small and medium sized enterprises (SMEs). In its initial phase, the DigiBIC project focused on results from 12 European funded projects in Digital Libraries and Content whose results have been prioritised as of high interest and potential for deployment to digital and CI's. Within 18 months over 40 deals for these technologies had been closed. Today DigiBIC provides the ideal platform for the deployment of technologies emerging from all research initiatives in ICT- based cultural and memory preservation services from across Europe.

Project Objectives: Short and midterm objectives of DigiBIC:

Following its initial focus on the successful deployment from the 12 previously identified projects (3D-COFORM, CINESPACE, EPOCH, iTACITUS, EASAIER, MEMORIES, MultiMATCH, POPYRUS, Treble-CLEF, PRESTOSPACE, PRESTOPRIME and LIWA) to industry, DigiBIC now involves other research initiatives in ICT- based cultural and memory preservation services from across Europe. Partnering these research leaders, is a network of partners and associate partners from across Europe who are specialised in assisting start up companies and SMEs to exploit new technologies and market opportunities originating in research environments.

The DigiBIC partners, along with additional IPR, finance and innovation specialists, bring with them not only extensive experience of the technology exploitation process but access to networks of creative industry players and in particular SMEs operating at regional and national level. Through DigiBIC, further national and regional partners and members of the DigiBIC network will be trained up on the potential of the technological applications resulting from the DigiBIC technology portfolio and hands on technical support will be provided to assist in actual exploitation to companies.

Details of the technologies and related training material are available online in the DigiBIC technology catalogue. Researchers and SMEs from all over Europe can upload details of their technologies or services on the DigiBIC online platform and hence use it as a route to market for promoting their applications throughout Europe.

Long term objective of DigiBIC:

In the long run the objective of DigiBIC is to create a sustainable European showcase for the creative industry sector providing practical tools and support to access European expertise in technology, services, innovation and financing.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 37 784

SK Participant EC Financial Contribution: EUR 33 691

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EBBITS

Project ID: 257852

Project Title: Enabling business-based Internet of Things and Services - An Interoperability platform for a real-world populated Internet of Things domain

Project website: <http://www.ebbits-project.eu>

Project Start Date: 2010-09-01

Project End Date: 2014-08-31

Project Total Cost: EUR 12 022 392

Project EC Financial Contribution: EUR 8 387 658

SLOVAK PARTICIPANT 1

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice

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Contact person email/ phone: prof. Ing. Tomas Sabol, CSc., tomas.sabol@tuke.sk +421-55-602 3259

SLOVAK PARTICIPANT 2

Slovak participant Name: INTERSOFT A.S.

Slovak participant address: Floriánska 19, 040 01 Košice

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TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE- SLOVAKIA

INTERSOFT A.S.- SLOVAKIA

IN-JET APS - DENMARK

CNET SVENSKA AB - SWEDEN

COMAU SPA - ITALY

ISTITUTO SUPERIORE MARIO BOELLA SULLE TECNOLOGIE DELL'INFORMAZIONE E DELLE TELECOMUNICAZIONI - ITALY

SAP AG - GERMANY

Project Description: The ebbits platform bridges the gap between virtual enterprises and public information systems, human users and “things” in the physical world.

The ebbits platform creates a ubiquitous communication infrastructure that automatically and dynamically connects to sensors and devices in the physical world in e.g. manufacturing facilities or in private smart homes. It further connects to mainstream backend information systems, public authentication systems and regulatory information sources using semantic web services. It finally connects to human users in dispersed geographical locations such as professional users in technical support, field service and other business environments as well as ordinary consumers in shops or at home.

Project Objectives: The ebbits project aims to develop architecture, technologies and processes, which allow businesses to semantically integrate the Internet of Things into mainstream enterprise systems and to support interoperable real-world, on-line end-to-end business applications.

It will provide a semantic resolution to the IoT and hence present a bridge between enterprise applications, people, services and the physical world, using information generated by tags, sensors, and other devices and performing actions

on the real-world.

The ebbits platform will support interoperable business applications with a context-aware processing of data separated in time and space, information and real-world events (addressing tags, sensor and actuators as services), people and workflows (operator and maintenance crews), optimisation using business rules (energy and cost performance criteria), end-to-end business processes (traceability, life-cycle management), or comprehensive consumer demands (product authentication, trustworthy information, and knowledge sharing).



SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Technical University of Kosice (TUKE) consists of nine faculties with around 16 000 full-time undergraduate students. It employs 900 teachers and the same number of research and administrative staff. Technical University of Kosice is the leader in ICT innovation and development in the Slovakia region. The main faculties related to the business, innovation and networked economy are the Faculty of Economics, Engineering and Informatics and BERG. Their research projects (5,6,7RP) focus on business networking, socio-economic analysis of ICT impact, e-business, trust building in the business networks, knowledge management, web technologies, logistics, eGovernment and regional development. The mission of TUKE is to provide its environment with scientific and technological knowledge basis, innovation and workforce, in order to form beneficial and sustainable future and a high quality of life. This will be achieved at TUKE by innovative research and excellent education in all scientific branches of respective University Faculties. Because of our scientific excellence we are the most successful organization in FPx projects in Slovakia, esp. in IST. TUKE is active in knowledge transfer, regional development and influencing public life through participation in several clusters and associations, esp. IT Valley, CEIT, ALADIN, etc. or in a very close cooperation with self-governing regions regional municipalities, ministries, the chamber of commerce and relevant regional and national stakeholders.

SK Participant Project Cost: EUR 727 600

SK Participant EC Financial Contribution: EUR 552 400

Project Outcomes planned/real: Architecture, technologies and processes, which allow businesses to semantically integrate the Internet of Things into mainstream enterprise systems and to support interoperable real-world, on-line end-to-end business applications.

Slovak Participant's Role in Project: The development of semantic knowledge infrastructure, ontologies, semantic web services and enterprise framework for life-cycle management.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 468 800

SK Participant EC Financial Contribution: EUR 358 720

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

E-DASH

Project ID: 285586

Project Title: Electricity Demand and Supply Harmonizing for EVs.

Project website: <http://edash.eu/>

Project Start Date: 2011-09-01

Project End Date: 2014-08-31

Project Total Cost: EUR 8 533 674

Project EC Financial Contribution: EUR 5 300 000

Slovak participant Name: BROADBIT SLOVAKIA S.R.O.

Slovak participant address: EOTVOSOVA 12, 945 01 Komárno

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VOLKSWAGEN AG - GERMANY

TRIALOG - FRANCE

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ATOS ORIGIN SOCIEDAD ANONIMA ESPANOLA - SPAIN

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ERPC EUROPEAN RESEARCH PROGRAMME CONSULTING GMBH - GERMANY

KNOWLEDGE INSIDE - FRANCE

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CENTRO RICERCA FIAT SCPA - ITALY

RWE EFFIZIENZ GMBH - GERMANY

TECHNISCHE UNIVERSITAET DORTMUND - GERMANY

INSTITUT FÜR ANGEWANDTE SYSTEMTECHNIK BREMEN GMBH - GERMANY

RENAULT S.A.S. REPRESENTED BY GIE REGIENOV - FRANCE

Project Description: The sustainable integration of the electric vehicles requires an intelligent charging system for the real-time exchange of charge related data between FEVs and the grid in order to allow the management of:
- high-current fast-charging for large numbers of FEVs in a brand-independent way
- price-adaptive charging/reverse-charging at optimum price for the customer
- the real-time grid balancing according to spatial and temporal needs and capacities, influenced by the demand (FEVs) and the supply side (unpredictability of regenerative energies)
- competent remote load charging process control in order to prevent damages of FEV batteries.

Project Objectives: It is the objective of e-DASH to develop those IC Technologies and processes that are needed to achieve the real-time integration of FEVs in the European Electricity Grid to enable an optimum electricity price to the customer and at the same time allows an effective load balancing in the grid. Great emphasis is placed on the openness of the V2OEM Interface granting access to multiple players maintaining the customers choice

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 212 880

SK Participant EC Financial Contribution: EUR 159 660

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EGOVPOLINET

Project ID: 288136

Project Title: Building a global multidisciplinary digital governance and policy modelling research and practice community

Project website: <http://www.policy-community.eu/>

Project Start Date: 2011-08-15

Project End Date: 2015-02-14

Project Total Cost: EUR 752 513

Project EC Financial Contribution: EUR 526 685

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice

Slovak participant address: LETNÁ 9, 04200 KOŠICE

Contact person email/ phone: prof. Ing. Tomas Sabol, CSc., tomas.sabol@tuke.sk, +421-55-602 3259

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KHMELNITSKY NATIONAL UNIVERSITY - UKRAINE

THE UNIVERSITY OF AUCKLAND - NEW ZEALAND

VOLTERRA PARTNERS LLP - UNITED KINGDOM

THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK - UNITED STATES

UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN - ÉIRE/ IRELAND

CENTRE FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE

VRJE UNIVERSITEIT BRUSSEL - BELGIUM

RIJKSUNIVERSITEIT GRONINGEN - NETHERLANDS

TECHNISCHE UNIVERSITEIT DELFT - NETHERLANDS

INNOVA SPA - ITALY

BRUNEL UNIVERSITY - UNITED KINGDOM

UNIVERSITE LAVAL - CANADA

ASSOCIACAO PARANAENSE DE CULTURA APC - BRAZIL

UNU INTERNATIONAL INSTITUTE SOFTWARE TECHNOLOGY UNUIIST - MACAU

MOSKOWSKIJ GOSUDARSTVENNIJ OBLASTNOJ UNIVERSITET - RUSSIA

UNIVERSITY OF TECHNOLOGY SYDNEY – AUSTRALIA

TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE- SLOVAKIA

Project Description: eGovPoliNet sets up an international community in ICT solutions for governance and policy modelling. The international community of researchers and practitioners will share and advance research and insight from practical cases around the world. To achieve this, eGovPoliNet will build on experiences accumulated by the leading representatives bringing together the innovative knowledge of the field. Capabilities, tools and methods brought forward by academia, ICT industry, highly specialised policy consulting firms, and policy operators and governance experts from governments will be examined and collected in an international knowledge base. Comparative analysis and descriptions of cases, tools and scientific approaches will complement this knowledge base. Therewith, the currently existing fragmentation across disciplines will be surpassed.

Project Objectives: Functions of eGovPoliNet towards community building, RTD monitoring and comparative analysis will mainly be conducted in an internet-based participatory manner, complemented by regular personal

meetings attached to conferences. Community building of the experts from academia, industry and public organizations, and other interested stakeholders will be supported by a community portal for knowledge sharing, collaboration, dissemination, and multidisciplinary constituency building in an open environment. eGovPoliNet expertise covers a wide range of aspects for social and professional networking and multidisciplinary constituency building along the axes of technology, participative processes, governance, policy modelling, social simulation and visualisation. Regular personal and virtual meetings with off- and online discussions and comparative studies will contribute to the capacity building of the community.



Through the sharing of approaches and exposing them to the community discussions, eGovPoliNet will advance the way research, development and practice is performed worldwide in using ICT solutions for governance and policy modelling.

Profile of Slovak Participant/ -s: Technical University of Kosice (TUKE) consists of nine faculties with around 16 000 full-time undergraduate students. It employs 900 teachers and the same number of research and administrative staff. Technical University of Kosice is the director of ICT innovation and development in the Slovakia region. The main faculties related to the business, innovation and networked economy are the Faculty of Economics, Engineering and Informatics and BERG. Their research projects (5,6,7RP) focus on business networking, socio-economic analysis of ICT impact, e-business, trust building in the business networks, knowledge management, web technologies, logistics, eGovernment and regional development. The mission of TUKE is to provide its environment with scientific and technological knowledge basis, innovation and workforce, in order to form beneficial and sustainable future and a high quality of life. This will be achieved at TUKE by innovative research and excellent education in all scientific branches of respective University Faculties. Because of our scientific excellence we are the most successful organization in FPx projects in Slovakia, esp. in IST. TUKE is active in knowledge transfer, regional development and influencing public life through participation in several clusters and associations, esp. IT Valley, CEIT, ALADIN, etc. or in a very close cooperation with self-governing regions, regional municipalities, ministries, chamber of commerce and relevant regional and national stakeholders.

SK Participant Project Cost: EUR 25 200

SK Participant EC Financial Contribution: EUR 22 469

Project Outcomes planned/real: An international community in ICT solutions for governance and policy modelling.

Slovak Participant's Role in Project: Contributing to knowledge base development.

ELLIOT

Project ID: 258666

Project Title: Experiential Living Lab for the Internet Of Things

Project website: <http://www.elliott-project.eu/>

Project Start Date: 2010-09-01

Project End Date: 2013-06-30

Project Total Cost: EUR 4 070 988

Project EC Financial Contribution: EUR 2 888 929

Slovak participant Name: INTERSOFT A.S.

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THE UNIVERSITY OF READING - UNITED KINGDOM

FONDAZIONE CENTRO SAN RAFFAELE DEL MONTE TABOR - ITALY

VU LOG SAS - FRANCE

ASSOCIATION FONDATION INTERNET NOUVELLE GENERATION A.F.I.N.G - FRANCE

COLLABORATIVE ENGINEERING S.R.L. - ITALY

INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET EN AUTOMATIQUE - FRANCE

THE UNIVERSITY OF NOTTINGHAM - UNITED KINGDOM

BIBA - BREMER INSTITUT FUER PRODUKTION UND LOGISTIK GMBH – GERMANY

INTERSOFT A.S.- SLOVAKIA

Project Description: The ELLIOT (Experiential Living Lab for the Internet of Things) project aims to develop an Internet Of Things (IOT) experiential platform where users/ citizens are directly involved in co-creating, exploring and experimenting new ideas, concepts and technological artefacts related to IOT applications and services. ELLIOT will allow studying the potential impact of IOT and the Future Internet in the context of the Open User Centred Innovation paradigm and of the Living Lab approach.

Project Objectives: The main objectives of ELLIOT :

- Study and develop a set of KSB (Knowledge-Social-Business) Experience Models integrating social, intellectual-cognitive, economical, legal and ethical aspects related to the use of IOT technologies and services into a single, holistic meta model.

- Design and develop an Experiential Platform where the KSB Experience Models will be implemented to explore socially enabled ICT/IOT, including its validation as well as the corresponding impact evaluation. This experiential platform will operate as a knowledge and experience gathering environment in the IOT context.

- Explore the potential of user co-creation techniques and tools, such as serious gaming, participative requirements engineering and verification/validation, in the context of IOT.

- Experiment within six Living Labs, each composed of a physical space artefact, a information space architecture and a societal space community. Various scenarios will be concurrently defined in six different sectors, namely Wellbeing, Logistics, Environment, Retail Use Case, Remote patients Assistance, and Energy Efficient Office. They will allow exploring and validating the KSB Experience Model, the Experiential Platform as well as the co-creation techniques and tools in the context of IOT technologies and services.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 169 339

SK Participant EC Financial Contribution: EUR 127 864

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EU COMMUNITY

Project ID: 611964
 Project Title: EU Community
 Project website: <http://project.eucommunity.eu/>
 Project Start Date: 2013-10-01
 Project End Date: 2016-09-30
 Project Total Cost: EUR 2 873 235
 Project EC Financial Contribution: EUR 2 184 000
 Slovak participant Name: I-EUROPA S.R.O.
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 ATHENS TECHNOLOGY CENTER SA - GREECE
 UNIVERSITY OF THE AEGEAN-RESEARCH UNIT - GREECE
 INTRASOFT INTERNATIONAL SA - LUXEMBOURG (GRAND-DUCHÉ)
 EURACTIV.COM PLC - UNITED KINGDOM
 FONDATION EURACTIV POLITECH - BELGIUM
 FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V – GERMANY
 I-EUROPA S.R.O.- SLOVAKIA

Project Description: EU COMMUNITY MERGES ICT AND SOCIAL MEDIA NETWORKING WITH ESTABLISHED ONLINE MEDIA AND STAKEHOLDER GROUPS TO CULTIVATE TRANSPARENCY, ENHANCE EFFICIENCY AND STIMULATE FRESH IDEAS FOR EU POLICY-MAKING. THREE CHALLENGES are identified to reduce complexity and leverage under used technologies.

1. Ever more complex policy processes, thousands of contributors and documents, not easily understood by people. REQUIRE reputation ranks and relevance filters;
2. eGov projects grow locally but have limited EU impact due to language, interface and trust barriers. REQUIRE co-development with stakeholders, leveraging visualisation technologies such as curated timelines;
3. Social media is prevalent but not helping EU legislation-making yet (except blocking ACTA).

NOVEL APPROACH: over 36 months, a consortium of leading research centres, ICT SME's and a large media network, will go from existing tools to further advanced prototype, pilot-testing and a roll-out. They are supported by a number of high-calibre experts and a foundation serving as a community guarantor. The results will be tested and deployed over an EU policy media network, with a track record of sustainability and multilingualism. Three pilots suiting the EU political mandates 2014-2019 have been selected (FUTURE OF EU, RENEWABLE ENERGY and INNOVATION STRATEGY) and will be undertaken by a network of European stakeholders (policy-makers, journalists, experts, NGO's and informed citizens) in several EU countries, supported by localised policy media.

Project Objectives: EU Community goes beyond the current generation of policy modelling and argumentation tools. It provides decision makers with better policy options by combining social media interactions, qualified contributors, document curation, visual analysis plus online and offline trust-building tools. The results will be open source platforms, and the data themselves will be open to re-use by other apps developers.



Profile of Slovak Participant/ -s: I-Europa, s.r.o. is the publishing company of a Slovak online media portal dedicated to EU affairs, institutions and policies called EurActiv.sk. With a readership of 60,000 visitors per month and 22,000 subscribers to a daily newsletter, EurActiv.sk is a leading media for EU affairs and their Slovak context. Its editorial mission is based on unbiased, accurate and up-to-day information about EU issues and institutions (including the European Parliament).

EurActiv.sk:

- provides daily EU news and current affairs coverage,
- publishes comprehensive policy briefing documents called Links Dossiers for insight into EU decision making,
- spreads in-depth analyses of the portal's content partners (other NGOs, think-tanks, academic institutions),
- organizes various types of events ranging from high-profile policy workshops to wider public seminars and conferences,
- invites MEPs for online chats and discussions.

As a trusted source of information, EurActiv.sk is an attractive platform for opinion leaders and influential multipliers (students of universities, teachers and professors, media, NGOs, SMEs, Members of the European Parliament, Members of Parliament, public authorities, professional associations and chambers).

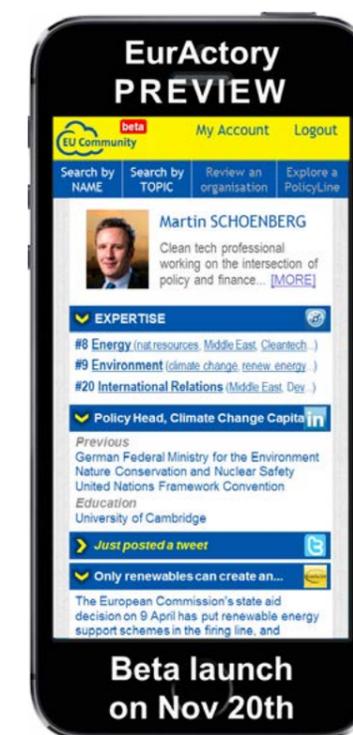
EurActiv.sk is a natural and effective communication tool for EU affairs communication, also as a partner of the EurActiv Network of European policy portals, with an excellent reach to policy makers and multipliers.

SK Participant Project Cost: EUR 196 474

SK Participant EC Financial Contribution: EUR 162 175

Project Outcomes planned/real: Planned outcomes: Research results will transform the project into a policy-making hub harnessing social media. Target stakeholders are primarily policy makers and influencers (EU Policy stakeholders) of the existing EU public sphere (Brussels and Member States Capitals). Key project technologies include Open Data (i.e. use & development of standards for greater interoperability), Social Media (sentiment analysis), Engagement, visualization, modelling/simulation. Co-funding from corporates and foundations is in process to be replaced over time by small tickets like qualified surveys, workshops and advertising. Input and reading will remain free of charge. 'EU Community' will measure its real impact after each milestone and based on the above metrics. It will recycle these learning's to continuously fine-tune itself. Ultimately, 'EU Community' will be open and rolled out to all EU policy topics and all relevant sub-communities. Identifying socio-political and economic trends, creating a controlled network effect and re-grouping positions will raise the quality of debates. This will facilitate fact-based decisions by politicians and enable greater support.

Slovak Participant's Role in Project: I-Europa contributes to user specification for the ICT infrastructure (EU Community portal), technical specification for policy modelling, operation of three policy pilots, and dissemination and exploitation.



EURODOTS

Project ID: 257051

Project Title: European Doctoral Training Support in Micro/Nano-electronics

Project website: <http://www.eurodots.org/>

Project Start Date: 2010-05-01

Project End Date: 2012-12-30

Project Total Cost: EUR 1 356 953

Project EC Financial Contribution: EUR 1 185 404

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE,
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ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE - SWITZERLAND
KUNGLIGA TEKNISKA HOEGSKOLAN - SWEDEN
KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM
M.E.A.D. EDUCATION SA - SWITZERLAND

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL
UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: EURO-DOTS is aimed primarily at improving the offering and the quality of training proposed to European PhD students. It helps fulfilling the requirements for ECTS credits imposed to PhD students by major European universities for obtaining the Doctoral (PhD) degree in Engineering. A coherent set of advanced courses in micro/nano-electronics, accredited by major European universities in the framework of their Doctoral Program, are made easily accessible to European PhD students, offering the opportunity to collect ECTS credits throughout Europe.

Project Objectives: The global objective of EURO-DOTS is to create a delocalized (virtual) platform to serve the Doctoral Schools in Europe in micro/nano-electronics. The courses respect specific organization criteria (short, intensive one-week course modules with optional exam) that make them flexible, accessible and attractive as well for high-level continuous education of engineers from industry. Scholarships are available to selected PhD students for boosting the start-up of the project, while other sources of scholarships and/or industrial support will be explored for the long-term continuation of the project.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 94 800

SK Participant EC Financial Contribution: EUR 84 530

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EURO-DOTS-2

Project ID: 316513

Project Title: European Doctoral Training Support in Micro/Nano-electronics

Project website: <http://eurodots.org/>

Project Start Date: 2013-01-01

Project End Date: 2014-12-31

Project Total Cost: EUR 357 308

Project EC Financial Contribution: EUR 346 000

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE,
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ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE - SWITZERLAND
M.E.A.D. EDUCATION SA - SWITZERLAND

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL
UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: The global objective of EURO-DOTS is to create a delocalized (virtual) platform to serve the Doctoral Schools in Europe in micro/nano-electronics. A coherent set of advanced courses in micro/nano-electronics, explicitly accredited by major European universities in the framework of their Doctoral Program, will be made easily accessible to European PhD students, offering the opportunity to collect ECTS credits throughout Europe. The courses will respect specific organization criteria (short, intensive one-week course modules with optional exam) that will make them very flexible, accessible and attractive towards PhD students as well as for high-level continuous education of engineers from industry. Scholarships will be made available to PhD students fulfilling the selection criteria, for boosting the start-up of the project, while other sources of scholarships and/or industrial support will be explored for the long-term continuation of the project.

Project Objectives: The major objective of EURO-DOTS was to improve the offering and quality of training provided to European PhD students in the micro/nano-electronics area based on the comprehensive analysis of university offering and industrial needs. One week intensive courses help them fulfilling the requirements for ECTS credits imposed by European universities for obtaining the PhD degree in Engineering. Essential in this endeavor are the scholarships that PhD students can apply for. This boosts the mobility of students but most importantly, it allows them to attend the right course at the right place, where the expertise on the treated subject is guaranteed.

The major objective of this EURO-DOTS-2 follow-up project with a 2 year duration, is to ensure the continuation and continuity of the present successful action. This implies maintaining and improving operation of the platform, managing course portfolio and planning, stimulating development and submission of new courses in response to the needs of industry and researchers, managing and attributing of scholarships for PhD students and promotion of platform service and course offering. The present partnership, installed committees and organization will be basically retained. This continuity can be realized with a limited but indispensable budget of which half will be used for the scholarships

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 7 200

SK Participant EC Financial Contribution: EUR 6 420

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EUROMATRIXPLUS

Project ID: 231720

Project Title: Bringing Machine Translation for European Languages to the User

Project website: <http://www.euromatrixplus.net/>

Project Start Date: 2009-03-01

Project End Date: 2012-02-28

Project Total Cost: EUR 5 942 121

Project EC Financial Contribution: EUR 4 266 896

Slovak participant Name: Slovak National Corpus Department of Slovak Academy of Sciences

Slovak participant address: Panská 26, 813 64 BRATISLAVA

Contact person email/ phone: Radovan Garabik, radovan.garabik@kassiopeia.juls.savba.sk, +421254410307

Partners of the Consortium:

DEUTSCHES FORSCHUNGSZENTRUM FUER KUNSTLICHE INTELLIGENZ GMBH - GERMANY

UNIVERZITA KARLOVA V PRAZE - CZECH REPUBLIC

JOHNS HOPKINS UNIVERSITY - UNITED STATES

DUBLIN CITY UNIVERSITY - ÉIRE/IRELAND

FONDAZIONE BRUNO KESSLER - ITALY

LUCY SOFTWARE AND SERVICES GMBH - GERMANY

CEET S.R.O. - CZECH REPUBLIC

UNIVERSITE LE MANS - FRANCE

THE UNIVERSITY OF EDINBURGH - UNITED KINGDOM

SLOVAK NATIONAL CORPUS DEPARTMENT OF SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: Europe faces a growing economic and societal challenge due to its vast diversity of languages, and machine translation (MT) technology holds promise as a means to address this challenge. EuroMatrix Plus focuses on two types of users: professional translators and translation agencies working for private corporations, administrations, and other organisations, and lay users who create a content on a volunteer basis by translating foreign materials into their own languages. We will investigate how these users can benefit from state of the art in MT, and conversely, how MT can benefit from user corrections, and create an openly accessible sample application that enables users to automatically translate news stories and web pages from any EU language into any other, and whose corrections will be exploited for improving MT technology.

Project Objectives: EuroMatrix Plus will

- continue the rapid advance of MT technology, creating example systems for every official EU language, and providing other MT developers with our infrastructure for building statistical translation models,

- continue and broaden the controlled systematic investigation of different approaches and techniques to accelerate the scientific evolution of novel methods, including both selection and cross-fertilization. The aim is to arrive at scientifically well understood novel combinations of methods that are proven superior to the state of the art existing methods,

- contribute to the growth and competitiveness of the European MT research scene and infrastructure through open evaluations and living community supported surveys of resources, tools, systems and their respective capabilities,

- focus on bringing MT to the users, in addition to focusing on scientific advances.

Profile of Slovak Participant/ -s: Slovak National Corpus Department carries out a natural language processing research covering broad aspects of Slovak linguistics. It is involved in various successful projects, the most prominent being the Slovak National Corpus – a representative corpus of contemporary Slovak language written texts published in 1955-2014, containing about 830 million words with automatic lemmatisation and morphology analysis. A smaller, balanced subcorpus consists of one third of journalistic texts, one third of specialised texts and one third of fiction, reaching the size of 317 million words. Another subcorpus contains manually lemmatised and annotated texts of about 1.2 million words. Manually syntactically annotated corpus contains about 70000 sentences.

The Ľudovít Štúr Institute of Linguistics is the central linguistic institution in the Slovak Republic. Its main areas of research and activities comprise of the research of contemporary Slovak language, Slovak dialectology, study of history of the Slovak language, as well as the interaction with general and comparative linguistics. Recently, the institute started to work in the fields of etymology and corpus linguistics. The sociolinguistic and culturological approaches are gaining momentum across various research topics. The institute has a long tradition of compiling dictionaries either for academic members or general public, producing linguistic atlases and specialised publications presenting different aspects of linguistic research.

SK Participant Project Cost: EUR 155 200

SK Participant EC Financial Contribution: EUR 116 400

Project Outcomes planned/real: The goal of the EuroMatrix Plus project was to continue the rapid advance of machine translation (MT) technology, extending the previous EuroMatrix project, to create example MT systems for every official EU language, and to provide other MT developers with infrastructure for building statistical translation models. EuroMatrixPlus planned to create an openly accessible sample application to enable users to automatically translate news, stories and web pages from any European language into any other, and whose corrections could be exploited as data for improving translation technology.

The open-source MT system Moses was further developed by the project. In addition to cutting-edge research in statistical MT and hybrid approaches to the problem, in which rule-based and statistical components are combined in various ways to benefit from the strengths of both approaches, the project has organized several “MT Marathons” and continued with the annual evaluation campaigns, organised specialized workshops with industrial users and released improved resources and software.

Slovak Participant’s Role in Project: Ľ. Štúr Institute of Linguistics worked on an automatic translation between Slovak and English; and between Slovak and Czech. The work was oriented towards the integration of Slovak language resources into the EuroMatrixPlus framework, to improve them and to prepare new resources where the existing ones were found lacking. Additionally, translation possibilities between close languages have been explored and evaluated, with an emphasis on the exploitation of shared properties of closely related languages in high-quality machine translation. The research also studied methods of using the translation between Czech and Slovak for improving the translation between Slovak and English. Two main resources built and extended during the project, large parallel Slovak-English and Slovak-Czech corpora have found their use in other areas, serving translators, language teachers and students and linguistic research.

FIVER

Project ID: 249142

Project Title: Fully-Converged Quintuple-Play Integrated Optical-Wireless Access Architectures

Project website: <http://www.ict-fiver.eu/>

Project Start Date: 2010-01-01

Project End Date: 2012-12-31

Project Total Cost: EUR 4 477 709

Project EC Financial Contribution: EUR 2 968 406

Slovak participant Name: TOWERCOM A.S.

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Partners of the Consortium:

UNIVERSIDAD POLITECNICA DE VALENCIA - SPAIN

UNIVERSITY OF ESSEX - UNITED KINGDOM

HOCHSCHULE FUER TECHNIK UND WIRTSCHAFT DRESDEN - GERMANY

PORTUGAL TELECOM INOVACAO SA - PORTUGAL

CORNING SAS - FRANCE

DAS PHOTONICS SL - SPAIN

THALES COMMUNICATIONS SA - FRANCE

INSTITUTO DE TELECOMUNICACOES - PORTUGAL

WROCLAWSKIE CENTRUM BADAN EIT+ SP Z O.O - POLAND

TOWERCOM A.S. - SLOVAKIA

Project Description: FIVER is a fully OFDM based network. This permits cost effective, fully centralised network architecture where the transmission impairment (both optical and radio) compensation and network management is done in only at the Central Office. No further compensation, regeneration or format conversion is required along the network giving a stream-lined network architecture capable of handling future services of interest.

Project Objectives: FIVER project proposes and develops a novel integrated access network architecture employing only OFDM signals for the provision of quintuple play services (Internet, phone/voice, HDTV, wireless -WiMAX, UWB and LTE femtocell- and home security/control). FIVER architecture is completely integrated: The optical access FTTH, the in-home optical distribution network and the final radio link become part of the access network. This permits a streamlined network architecture avoiding most of the conversion stages and proving cost, space and energy savings.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 228 370

SK Participant EC Financial Contribution: EUR 119 995

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

GOLDFISH - ENLARGED

Project ID: 269985

Project Title: Detection of Watercourse Contamination in Developing Countries using Sensor Networks - Enlarged

Project website: <http://www.goldfish-project.eu/>

Project Start Date: 2011-11-01

Project End Date: 2015-04-30

Project Total Cost: EUR 2 641 893

Project EC Financial Contribution: EUR 2 042 968

Slovak participant Name: USTAV HYDROLOGIE SLOVENSKEJ AKADEMIE VIED, Institute of Hydrology of Slovak Academy of Sciences

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Contact person email/ phone: Yveta Velisková, e-mail: veliskova@uh.savba.sk, Phone: 00421 2 44456937

Partners of the Consortium:

WARSAW UNIVERSITY OF TECHNOLOGY – POLAND

LUND UNIVERSITY, ELECTRICAL AND INFORMATION TECHNOLOGY - SWEDEN

LUND UNIVERSITY, BIOTECHNOLOGY DEPARTMENT - SWEDEN

UNIVERSITÉ PIERRE ET MARIE CURIE - FRANCE

UNIVERSIDAD DE LOS ANDES - COLOMBIA

UNIVERSIDAD MAYOR DE SAN ANDRES - BOLIVIA

HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY - VIETNAM

GREEN COMMUNICATIONS - FRANCE

CAPSENZE - SWEDEN

USTAV HYDROLOGIE SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF HYDROLOGY, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The preservation of unpolluted ecosystems is of vital importance to the whole world. Rivers play an important role in the ecosystem preservation and, if they are not protected, it will contribute to the spreading of contamination in the surrounding areas. Tracking of contamination in watercourses requires a system that persistently monitors the presence of specific chemical agents in the water. Deployment of such systems, being relatively easy in urbanized areas, remains a great challenge in remote unpopulated areas without infrastructure.

With this motivation, GOLDFISH is focused on investigating technological means for tracking pollution in remote rivers using sensor network technology.

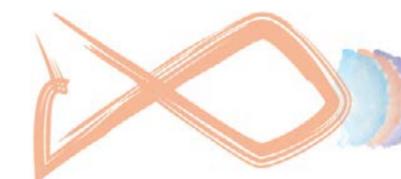
As the ecosystems of the Amazon jungle and the Andean mountains are of utmost global importance, rivers in these areas have been chosen for testing and pilot deployment of the GOLDFISH system.

Project Objectives: The GOLDFISH project will employ European ICT research capabilities for designing, development, testing and piloting of a system that aids

localization of pollution in watercourses. GOLDFISH will make sure that its target solution will provide an affordable, technologically efficient, and easy to deploy and operate ICT system.

More particularly, the core of the GOLDFISH solution will consist of a sensor network, management and data processing system. The sensor network is composed of sensor clusters and gateways. A sensors cluster will be located under water in a watercourse and it will be composed of: a set of chemical sensors, a processing unit and an antenna assembled in one waterproof structure. All the measurement results gathered via chemical sensors is transmitted to the gateways and further, via satellite communication links, to the central Monitoring and Management Station (MMS). MMS will process the data as they are being received in order to immediately detect conditions that indicate the presence of contaminating substances in water.

The GOLDFISH system will be designed and produced by the EU partners of the GOLDFISH consortium, including three universities and two SMEs, using EU research and technological (hardware and software) know-how and EU-manufactured equipment such as chemical sensors, signal interfaces, network processing units, transceivers, antennas, gateways, etc. The ICT system will be tested in Europe and Latin America.



Profile of Slovak Participant/ -s: Institute of Hydrology Slovak Academy of Sciences (IH SAS) performs research in the field of The Earth and environmental sciences and in the field of environmental engineering; its activity is focused on the field of surface and subsurface water hydrology with the emphasis on water balance elements changes in catchments, on groundwater with a special attention paid to the subsurface water formation and its quality, to the transport of surface and subsurface water, soluted and dispersed stuff, the anthropogenic influence on hydrological processes, including processes of surface and subsurface water pollution, hydrological regime of surface and subsurface water changes due to expected climate changes, to the problems solution related to the environmental management, ecology, land protection and use, hydrogeology, pedology, etc. IH SAS is the only institute in Slovakia offering complex solutions of water management problems in the range of basic research and the needs of the society. The Institute also performs consultancy and expertise services related to its main activity. The employees of the IH SAS participated in projects within national and international granting schemes and also in the creation of Centres of excellence supported by the Research & Development Operational Programme funded by the ERDF.

SK Participant Project Cost: EUR 164 660

SK Participant EC Financial Contribution: EUR 126 495

Project Outcomes planned/real: Rivers play an important role in the preservation of the whole ecosystem and, if they are not protected, it could contribute to spreading contamination in the surrounding areas. The tracking of contamination in watercourses requires a system that persistently monitors the presence of specific chemical agents in the water. Deployment of such systems, being relatively easy in urbanized areas, remains a great challenge in remote unpopulated areas without infrastructure.

With this motivation, GOLDFISH is focused on investigating the technological means for tracking pollution in remote rivers using sensor network technology. As the ecosystems of the Amazon jungle and the Andean mountains are of utmost global importance, rivers in these areas have been chosen for testing and pilot deployment of the GOLDFISH system.

This system will consist of a sensor network, management and data processing system. The sensor network is composed of sensor clusters and gateways. A sensors cluster will be located underwater in a watercourse and it will be composed of: a set of chemical sensors, a processing unit and an antenna assembled in a waterproof structure. All the measurement results gathered via chemical sensors are transmitted to the gateways and via long-distance communication links to the central Management and Monitoring Station.

The sensors will be affordable and able to work under the water for more than three months without in-situ maintenance. In addition, the deployment of the sensors should not require any specific technical knowledge.

The role of the GOLDFISH system will be to provide the software tool for estimating the pollution source localization.

Slovak Participant's Role in Project: One of the research objectives of the Institute of Hydrology is also the dispersion processes and pollution spreading in surface water. Understanding of the dispersion phenomena in flowing water in various conditions is necessary in order to solve the complex task of water body quality testing. The IH SAS develops a state-of-the-art knowledge base of dispersion phenomena understanding and also of the methodology of dispersion characteristics determination. The Institute is a principal research organisation in Slovakia for the solution of pollutant dispersion in surface water from the hydrodynamic point of view.

Original project proposal includes only the detection of the pollutants, indicating the level of concentration at the measurement point. The project enlargement also includes the tool for tracking pollution in rivers which will allow for the estimation of the pollution source localization. The main role of IH SAS is the design of this automatic localization tool. The tool should be user friendly with minimum of input data entered by the user, with quick – real time responses. The next task of IH SAS is to provide the information background concerning water dispersion phenomena. These help the consortium in finding better and quicker answers to technical questions related to: the network topology to be used, the number of sensors to be placed in a field installation, the distance between field installations, sample frequency. Therefore, IH-SAS as partner will help to use bringing a more precise prototype with a better performance and lower cost. In addition, IH-SAS will bring a new part of the system: the application – a software tool for the estimation of the pollution source.



GOPHOTON!

Project ID: 619635
Project Title: GoPhoton! - Photonics for everyone
Project website: <http://gophoton.eu/>
Project Start Date: 2014-01-01
Project End Date: 2015-12-31
Project Total Cost: EUR 972 221
Project EC Financial Contribution: EUR 880 000
Slovak participant Name: MEDZINARODNE LASEROVE CENTRUM, International Laser Centre
Slovak participant address: Ilkovičova 3, 841 04 Bratislava
Contact person: Mr. Dusan Chorvat, email/ phone: chorvat@ilc.sk, +421265421575
Partners of the Consortium:
VRIJE UNIVERSITEIT BRUSSEL- BELGIUM
FORSCHUNGSVERBUND BERLIN E.V.- GERMANY
INSTITUT D'OPTIQUE THEORIQUE ET APPLIQUEE IOTA – SUPTIQUE- FRANCE
NATIONAL UNIVERSITY OF IRELAND, GALWAY- IRELAND
POLITECNICO DI MILANO- ITALY
MEDZINARODNE LASEROVE CENTRUM, INTERNATIONAL LASER CENTRE - SLOVAKIA
IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE- UNITED KINGDOM

Project Description: N/A

Project Objectives: N/A

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 49 429

SK Participant EC Financial Contribution: EUR 45 211

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

HBB-NEXT

Project ID: 287848

Project Title: Next-Generation Hybrid Broadcast Broadband

Project website: <http://www.hbb-next.eu/>

Project Start Date: 2011-10-01

Project End Date: 2014-03-30

Project Total Cost: EUR 3 971 740

Project EC Financial Contribution: EUR 2 975 979

SLOVAK PARTICIPANT 1

Slovak participant Name: SLOVAK TELEKOM A.S.

Slovak participant address: BAJKALSKÁ 28, 81762 BRATISLAVA

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SLOVAK PARTICIPANT 2

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

Slovak participant address: VAZOVOVA 5, 812 43 BRATISLAVA

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Partners of the Consortium:

RUNDFUNK BERLIN-BRANDENBURG - GERMANY

INSTITUT FUER RUNDFUNKTECHNIK GMBH - GERMANY

KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM

NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK - TNO - NETHERLANDS

NEC EUROPE LTD - UNITED KINGDOM

TECHNISCHE HOCHSCHULE MITTELHESSEN - GERMANY

TARA SYSTEMS SYSTEMENTWICKLUNG GMBH - GERMANY

SLOVAK TELEKOM A.S. - SLOVAKIA

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA) - SLOVAKIA

Project Description: So far, Hybrid Broadcast Internet applications have mostly linked Internet and broadcast by offering on-demand content in addition to current linear broadcast services and by replacing the old-fashioned Teletext. However, many more services are on the horizon, and the market of hybrid and connected TV attracts attention from all stakeholders in the media value chain. The challenge is to take the hybrid service to a new level where the wide range of expectations of user groups is met. HBB-NEXT will lay the foundations for advanced hybrid multi-user services by building upon existing standards and by enhancing them.

Project Objectives: The project seeks to facilitate the convergence of the broadcast and Internet world by researching user-centric technologies for enriching the TV-viewing experience with social networking, multiple device access, group-tailored content recommendations, as well as the seamless mixing of broadcast content, of complementary Internet content and of user-generated content. The project will deliver a set

of enablers to allow for device-independent applications that can syndicate content from multiple sources, supporting real-time content composition and content distribution for users in geographically distinct areas. Sophisticated technology will be developed for an easy use of the content, e.g. advanced synchronisation methods for service components delivered across the Internet and broadcast networks. Data security and protection of user privacy will be an integral part of HBB-NEXT - but in a way that is transparent to the end-user.

In liaison with the HbbTV Consortium, HBB-NEXT will define requirements and specifications for a secure multi-user and multi-device TV-viewing experience, thus fostering the implementation of new service concepts and business models.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Slovak Telekom is the largest Slovak multimedia operator with many years of experience and a responsible approach to doing business. The company is universal operator offering its residential and corporate clientele benefits of a comprehensive solution provided from a single source. Slovak Telekom offers a full-array of data and voice services, owns and operates the fixed and mobile telecommunications network covering almost the entire territory of the Slovak Republic. In the field of the fixed network, the company systematically invests in the most advanced optical infrastructure, operates the Next Generation Network (NGN) and it is the largest broadband provider in the country. As the first multimedia operator, it offers the digital TV Magio via fixed networks and satellite technology DVB-S2. In the field of mobile communication, it provides internet connectivity via several different technologies for high-speed data transmission - GPRS/EDGE, Wireless LAN (Wi-Fi), UMTS FDD/HSDPA/HSUPA, FLASH-OFDM and LTE. As the first operator in Slovakia, the company launched the MMS messaging service and BlackBerry. According to a renowned study carried out by Hewitt Associates, the company is one of the best employers in Slovakia. It also is a respected and long-term leader in the field of CR and philanthropy. Slovak Telekom is a member of the multinational Deutsche Telekom Group. The Company's majority shareholder (51%) is CMobil B.V., fully owned by Deutsche Telekom AG. The Slovak Republic represented by the Ministry of Economy of the Slovak Republic owns a 34 % share and the National Property Fund of the Slovak Republic 15 % shares.

SK Participant Project Cost: EUR 150 096

SK Participant EC Financial Contribution: EUR 86 166

Project Outcomes planned/real: So far, Hybrid Broadcast Internet applications have mostly linked the Internet and broadcast by offering on-demand content in addition to current linear broadcast services and by replacing the old-fashioned Teletext. However, many more services are on the horizon, and the market of hybrid and connected TV attracts attention from all stakeholders in the media value chain. The challenge is to take hybrid service to a new level where the wide range of expectations of the user groups is met. HBB-NEXT will lay the foundations for advanced hybrid multi-user services by building upon existing standards and by enhancing them. The project seeks to facilitate the convergence of the broadcast and Internet world by researching user-centric technologies for enriching the TV-viewing experience with social networking, multiple device access, group-tailored content recommendations, as well as the seamless mixing of broadcast content, of complementary Internet content and of user-generated content. The project will deliver a set of enablers to allow device-independent applications that can syndicate a content from multiple

sources, supporting real-time content composition and content distribution for users in geographically distinct areas. Sophisticated technology will be developed for an easy use of the content, e.g. advanced synchronisation methods for service components delivered across the Internet and broadcast networks. Data security and the protection of user privacy will be an integral part of the system and it will be made transparent for the end-user. In liaison with the HbbTV Consortium, HBB-NEXT will define the requirements for a secure multi-user and multi-device TV-viewing experience, thus fostering the implementation of new service concepts and business models.

Slovak Participant's Role in Project: ST has been involved in multiple HBB-Next WPs and now plays an active role especially in specifying the architecture and security aspects as well as in supporting prototyping of selected applications. ST was responsible for defining the HBB-Next system architecture and also for directing a related task in WP2. Together with partners we have created a concept of application framework with a defined software architecture containing several service enablers that can be used for developing advanced HbbTV application beyond HbbTV 2.0 standard. We have also developed two of these enablers responsible for User Identity and Security Management as well as for Personalization Engine (as part of WP3, WP5 developed modules: IDM, Security manager, Personalization Engine). We proposed an architecture for hosting application on virtualized HBB-Next platform and helped partners with the development of selected HBB-Next applications (WP6). Several prototypes of applications have been presented on IBC exhibition in Future zone and on the dedicated HBB-Next technical workshop. We have been presenting HBB-Next results on multiple technical fora such as Broadband World Forum, OTTtv World Summit, IBC and IPTV news.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Slovak University of Technology in Bratislava (STUBA) is a modern educational and scientific institution. Since its foundation in the year of 1937 more than 115.000 students have graduated. On average, 19.000 students study at the STUBA every year. At present, the STUBA consists of seven faculties. Two of them provide education in the area of ICT: Faculty of Electrical Engineering and Information Technology (FEI STUBA) and Faculty of Informatics and Information Technologies (FIIT STUBA). The research activities in the field of ICT at FEI STUBA and FIIT STUBA are focused mainly on network architectures (NGN, IPTV, Future Internet), traffic control, multimedia services, information and network security, speech and image processing and software research. STUBA has strong international research and teaching relationships.

SK Participant Project Cost: EUR 348 480

SK Participant EC Financial Contribution: EUR 276 080

Project Outcomes planned/real: Planned Outcomes: 1) Modular, extensible and web-based middleware framework for the seamless integration of content and applications over a hybrid broadcast broadband platform. 2) Enabler "User Identity," 3) Enabler "Multi-modal User identification," 4) Enabler "Application Trust," 5) Enabler "A/V Content Synchronisation," 6) Enabler "Cloud Service Offloading," 7) Enabler "Multi-modal interface for Multi-user Service Personalisation Engine," 8) Enabler "Content Recommendation system for Multi-user Service Personalisation Engine," 9) Enabler "Integrated proof-of-concept prototype Enabler," 10) Standardisation.

Real Outputs: 1) Modular web-based middleware framework for seamless integration of content and applications over a

hybrid broadcast broadband platform. 2) "User Identity" enabler, based on security manager, identity manager and multimodal interface. 3) "Multi-modal User identification" system for end user identification, authentication and authorisation, based on the following modalities: Speaker identification, 2D and 3D face recognition, Iris recognition, gesture recognition, 4) "Application Trust" enabler, 5) "A/V Content Synchronisation," "Inter-device synchronisation" and "Multidevice synchronisation enablers, 6) "Cloud Service Offloading" enabler - dynamic media pipeline composition to support different type of media processing, 7) "Multi-modal interface (MMI) for Multi-user Service Personalisation Engine" enabler - MMI (based on modalities introduced in Output 3) identifies the group of end users and then HBB-NEXT system provides them the personalised set of services, 8) "Content Recommendation system for Multi-user Service Personalisation Engine" includes: group recommender system, multi-face identification, metadata enrichment and integration, 9) "Integrated proof-of-concept prototype Enabler," 10) "Standardisation" - proposed and submitted several contributions to technical requirements of HbbTV version 2.0, 11) Seven integrated HBB-NEXT applications: "TV Service customisation," "Interactive TV show," "Application store," "Group EPG," "Gesture control - Integrated application," "3D video hybrid delivery," "Immersive second screen synchronisation."

Slovak Participant's Role in Project: STUBA led one Work package and two Tasks of the HBB-NEXT project and participated in Five Work packages. The participation of STUBA in HBB-NEXT encompasses architecture, security and identity management, multimodal recognition and establishing a test bed. Architectural contribution of STUBA covered HBB platform improvement to achieve enhanced multimedia applications. STUBA developed and implemented multimodal interface (based on voice/face/iris/gesture recognition), as well as developed and implemented the "Integrated Gesture control" application in the environment of "Smart room" at FEI STUBA and participated in the development of two other HBB-NEXT integrated applications: Application store and Group EPG. In addition, STUBA developed several algorithms for speaker identification, speech synthesis, 2D and 3D face recognition, gesture recognition (static gestures, dynamic trajectory gestures, and dynamic swipe gestures).



HESMOS

Project ID: 260088

Project Title: ICT Platform for Holistic Energy Efficiency Simulation and Lifecycle Management Of Public Use Facilities

Project website: <http://hesmos.eu/>

Project Start Date: 2010-09-01

Project End Date: 2013-12-31

Project Total Cost: EUR 4 646 330

Project EC Financial Contribution: EUR 2 699 850

Slovak participant Name: NEMETSCHKEK ALLPLAN SLOVENSKO S.R.O.

Slovak participant address: JAROSOVA 1, 831 03 BRATISLAVA

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Partners of the Consortium:

TECHNISCHE UNIVERSITAET DRESDEN - GERMANY

OBERMEYER PLANEN + BERATEN GMBH - GERMANY

KONINKLUKE BAM GROEP NV - NETHERLANDS

AEC3 LTD - UNITED KINGDOM

INSINOORITOIMISTO OLOF GRANLUND OY - SUOMI/FINLAND

NEMETSCHKEK ALLPLAN SLOVENSKO S.R.O.- SLOVAKIA

Project Description: HESMOS will achieve an industry-driven holistic approach for sustainable optimisation of energy performance and emissions (CO2) reduction through integrated design and simulation, while balancing investment, maintenance and reinvestment costs. The objective is to close the gaps between existing intelligent building/facilities data so that complex lifecycle simulation can easily be done in all design, refurbishment and retrofitting phases where the largest energy saving potentials exist.

Project Objectives:

Provide advanced simulation capabilities to decision makers in the whole life-cycle of buildings, taking into account energy savings, investment and life-cycle costs

Integrate a Virtual Laboratory to connect CAD and eeTools (energy efficiency Tools) in order to enhance building industry actor's ee-competences

Close the gap between Building Information Modelling (BIM) and Building Automation Systems (BAS) so that decisions can be made economically (energy & cost related) in all life-cycle phases

Integrate surrounding areas extending current BIM to eeBIM

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 1 105 680

SK Participant EC Financial Contribution: EUR 557 400

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

HIP

Project ID: 221889

Project Title: Hybrid Information Processing

Project website: <http://www.dmi.unisa.it/HIP/index.html>

Project Start Date: 2008-11-01

Project End Date: 2012-04-30

Project Total Cost: EUR 2 650 726

Project EC Financial Contribution: EUR 2 009 000

Slovak participant Name: FYZIKALNY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Physics, Slovak Academy of Sciences

Slovak participant address: Dúbravská cesta 9, 845 11 Bratislava

Contact person: Prof. Vladimír Bužek, email/ phone: buzek@savba.sk, +421 2 5941 05

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HEWLETT-PACKARD LIMITED - UNITED KINGDOM

RESEARCH ORGANIZATION OF INFORMATION AND SYSTEMS - JAPAN

IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE - UNITED KINGDOM

THE UNIVERSITY OF QUEENSLAND - AUSTRALIA

UNIVERSITA DEGLI STUDI DI CAMERINO - ITALY

FYZIKALNY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF PHYSICS, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: Scaling quantum information processors beyond the present small-scale devices is challenging as communication between parts of the processor, single site addressability and scaling are difficult to reconcile.

HIP addresses these issues with the experimental realization of elementary hybrid atom-photon devices, and the theoretical development of schemes for their integration on platforms capable of being miniaturized and scaled up in functional networks. The main experimental platform on which this goal will be pursued are atom chips structures on which optical micro-cavities will be integrated. These devices will then be connected with optical fibres to form a network. With increasing size of the quantum information processor the detailed verification of its functionality is a task that is growing exponentially in the system size. HIP will address this issue with the development of theoretical methods for the efficient and quantitative verification of key properties of quantum information processors and their experimental implementation

Project Objectives: HIP unites leading experimental and theoretical groups to develop and realize these structures and methods, and explore their potential applications. The theoretical methods and experimental demonstrators that will be developed in HIP will provide key facilities for the realization of schemes for medium- and large-scale quantum information processing with integrated atomic and optical systems.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 240 000

SK Participant EC Financial Contribution: EUR 180 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

HIPOSWITCH

Project ID: 287602
 Project Title: GaN-based normally-off high power switching transistor for efficient power converters
 Project website: <http://www.hiposwitch.eu/>
 Project Start Date: 2011-09-01
 Project End Date: 2014-08-31
 Project Total Cost: EUR 5 573 196
 Project EC Financial Contribution: EUR 3 578 938
 Slovak participant Name: ELEKTROTECHNICKÝ ÚSTAV SLOVENSKEJ AKADEMIE VIED, Institute of Electrical Engineering, Slovak Academy of Sciences
 Slovak participant address: Dúbravská 9, 841 04 BRATISLAVA
 Contact person email/ phone: Dr. Jan Kuzmik, jan.kuzmik@savba.sk, 910239680
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 TECHNISCHE UNIVERSITÄT WIEN - AUSTRIA
 AIXTRON SE - GERMANY
 UNIVERSITA DEGLI STUDI DI PADOVA - ITALY
 EPIGAN NV - BELGIUM
 ELEKTROTECHNICKÝ ÚSTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF ELECTRICAL ENGINEERING, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: The project brings together partners experienced in automotive technology, power electronic system and circuit design, power semiconductor technology, high temperature packaging technologies, GaN power device technology including GaN on Si epitaxy as well as in sophisticated device characterization and reliability evaluation techniques. Therefore; excellent prospects for a successful realization of the project targets and for a competitive implementation of the new devices in an industrial environment are seen.

Project Objectives: Highly efficient power electronics is needed for low volume and low weight future power conversion systems. The proposed project aims for the exploitation of novel gallium nitride (GaN) transistors for advanced switched power supplies. High voltage normally-off GaN power devices on Si substrates in vertical device architecture will be developed and its technology transferred to a European industrial environment. The devices are planned to reliably operate at elevated junction temperatures of up to 225°C. The project covers the full value added chain from substrate technology and epitaxy to complete power electronic system prototypes.

Profile of Slovak Participant/ -s: The Institute of Electrical Engineering Slovak Academy of Sciences (IEE SAS) is a scientific institution based in 1953. Researchers of the Institute implements international projects supported by EU, projects supported by ERDF, and national projects supported by APVV and VEGA agencies.

The Institute is focused on the research and development of semiconductor, superconductor, oxide and magnetic materials and devices, including theoretical and experimental study of their structural, optical, transport properties and devices for the information technology and power engineering.

The semiconductor research is focused on future Si-based memory devices, technology and study of GaN, GaAs, and InP quantum heterostructures. Our work leads to several outputs, as for example capacity sensors, advanced sensors of magnetic field, x-ray detectors and others.

The superconductor research is centred on technology and testing of superconducting MgB2 tapes and conductors, developed for power engineering such as transport cables, transformers and superconducting magnets.

SK Participant Project Cost: EUR 164 400

SK Participant EC Financial Contribution: EUR 124 400

Project Outcomes planned/real: Highly efficient power electronics is needed for low volume and low weight future power conversion systems.

The proposed project aims for the exploitation of a novel gallium nitride (GaN) transistors for advanced switched power supplies. High voltage normally-off GaN power devices on Si substrates in vertical device architecture will be developed and its technology transferred to a European industrial environment. The devices are planned to reliably operate at elevated junction temperatures up to 225°C. The project covers the full value added chain from substrate technology and epitaxy to complete power electronic system prototypes. It brings together partners experienced in automotive technology, power electronic system and circuit design, power semiconductor technology, high temperature packaging technologies, GaN power device technology including GaN on Si epitaxy as well as in sophisticated device characterization and reliability evaluation techniques. Therefore, excellent prospects for a successful realization of the project targets and for a competitive implementation of the new devices in an industrial environment are seen.

Slovak Participant's Role in Project: IEE is involved in two work packages. WP 7 aims at device characterization. The analysis is based on an extensive electrical, optical and thermal characterisation of GaN-based devices at different ambient temperatures and after the submission to stress tests. The data on the device characterisation as well as those obtained after device degradation of the stressed samples (together with the hypothesis on the degradation mechanisms) will be provided to device manufacturers as a feedback on the quality of the growth and fabrication process. In WP 8 Following particular topics can be envisaged: 1) Proposal and calculation of an optimal polarization engineered heterostructure using a coupled Schrödinger-Poisson equation solver. The procedure will be repeated based on the sequential development of the FETs; 2) Development of the device processing technology including a thermally-stable gate stack to withstand the ohmic contacts annealing. Optimization of the high-k dielectrics formation (MOCVD or ALD deposition on GaN cap) for maximal VT in dielectric-assisted Schottky contacts FETs or for MISFETs; 3) Development of an etching recipe and passivation scheme (on AlGaIn) at etched access regions to mitigate the FET lag effect and to obtain a maximal breakdown voltage. 4) Transfer of the process to FBH.



CHOSEN

Project ID: 224327
 Project Title: Cooperative Hybrid Objects in Sensor Networks
 Project website: <http://www.chosen.eu/>
 Project Start Date: 2008-06-01
 Project End Date: 2011-11-30
 Project Total Cost: EUR 5 036 965
 Project EC Financial Contribution: EUR 3 100 000
 Slovak participant Name: Ardaco, a.s.
 Slovak participant address: Polianky 5, 841 01 Bratislava
 Contact person email/ phone: Juraj Hajek, Email: info@ardaco.com Tel. +421 (2) 3221 2311
 Partners of the Consortium:
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 TECHNISCHE UNIVERSITÄT GRAZ – AUSTRIA
 KARLSRUHER INSTITUT FUER TECHNOLOGIE – GERMANY
 ACORDE TECHNOLOGIES S.A. – SPAIN
 EADS DEUTSCHLAND GMBH – GERMANY
 TECHNISCHE UNIVERSITÄT WIEN – AUSTRIA
 ARDACO, A.S.- SLOVAKIA

Project Description: CHOSeN will develop the appropriate technology, including advanced configurable RF and digital baseband transceiver hardware, networking protocols with scalable Quality of Service in respect of transmission speed, robustness, security, and low-power support, and a generic collaboration middleware that abstracts from the diversity and heterogeneity provided by the layers below, and it will thereby improve the state-of-the-art in system maintenance utilizing heterogeneous wireless sensor technologies. CHOSeN is firmly focused on providing practical solutions for the automotive and the aerospace application domain, which promise better, more reliable and easier to maintain products in two of the most significant European industrial domains. The quality of the CHOSeN consortium is high with a balanced mix of partners from academia, SMEs and industry, and a strong industrial presence which covers the entire vertical application domains considered.

Project Objectives: The CHOSeN project will develop a new hardware and software platform enabling distributed optimal execution and scalable performances. The new middleware architecture will also support the system auto-configuration through dynamic resources discovery and management.

Profile of Slovak Participant/ -s: Ardaco, a.s. is a technological SME based in Bratislava, Slovakia. Ardaco puts strong emphasis on innovations and own technologies development. Its mission is to bring security to free exchange of information. Ardaco has been developing unique solutions and services in the area of communication and secure processing of information, personal identity and privacy protection for over 15 years. In the recent years, Ardaco has been actively involved in European and Slovak technological and research cooperation structures such as: EPOSS ETP – former member of the Steering Board and ARTEMISIA JTI – founding member, former member of Steering board. Previous experience relevant to the project tasks:

Ardaco has been focused on information and communication security since its establishment. Most of the products have undergone a lot of independent security audits and have been certified by National Security Authority of the Slovak Republic. The SecureCall – a GSM encryption product got certified up to the level NATO Confidential. During last three years Ardaco has been active in the international cooperation programmes of EU. At present, Ardaco is involved in seven projects funded from FP7 and CIP programme. The most significant one is SECRIKOM - Seamless Communication for Crisis Management in which Ardaco is the technical coordinator and integration leader. Ardaco personnel have extensive experience in project management in international environment both in commercial and FP7 fields.



SK Participant Project Cost: EUR 206 110

SK Participant EC Financial Contribution: EUR 157 519

Project Outcomes planned/real: The research project CHOSeN's goal was to develop application-specifically adaptable communication technologies enabling the real deployment of smart wireless sensor networks in large-scale, performance-critical application fields such as the automotive and the aeronautic. Ardaco's focus was on security mechanisms and protocols research that provide reasonable level of confidentiality, privacy, integrity and authenticity in a very constrained environment. Wireless sensor network is one of the most difficult environments to secure, the nodes must be small and low cost, have very limited capabilities in terms of computing power, available memory, power drain and, in most cases, have no connectivity to external world (Internet). Project results were demonstrated on the use cases from automotive and aerospace industries.

Slovak Participant's Role in Project: Ardaco was involved in the following main tasks: Wireless Communication systems security and communication robustness.

IDEALIST2011

Project ID: 231367

Project Title: Trans-national cooperation among ICT National Contact Points

Project website: <http://www.ideal-ist.eu/>

Project Start Date: 2008-10-01

Project End Date: 2011-09-30

Project Total Cost: EUR 3 525 882

Project EC Financial Contribution: EUR 2 995 160

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE,
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BUCURESTI - ROMANIA
EFP CONSULTING (UK) LTD - UNITED KINGDOM
OESTERREICHISCHE FORSCHUNGSFOERDERUNGSGESELLSCHAFT MBH - AUSTRIA
MINISTERIE VAN ECONOMISCHE ZAKEN, LANDBOUW EN INNOVATIE - NETHERLANDS
UBIFRANCE*AGENCE FRANCAISE POUR LE DEVELOPPEMENT INTERNATIONAL DES
ENTREPRISES - FRANCE
HASKOLI ISLANDS - ICELAND
SIHTASUTUS ARCHIMEDES - ESTONIA
INSTITUTE OF INFORMATION AND COMMUNICATION TECHNOLOGIES - BULGARIA
TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY
MATIMOP, ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT - ISRAEL
KOZEP-MAGYARORSZAGI REGIONALIS INNOVACIOS UGYNOKSEG KOZHASZNU
EGYESULET - HUNGARY
USTAV TEORIE INFORMACE A AUTOMATIZACE AV CR, V.V.I. - CZECH REPUBLIC
CONSORZIO PISA RICERCA SCARL - ITALY
VERKET FÖR INNOVATIONSSYSTEM - SWEDEN
CENTRO PARA EL DESARROLLO TECNOLÓGICO INDUSTRIAL. - SPAIN
NORGES FORSKNINGSRAD - NORWAY
ETHNIKO IDRYMA EREVNON - GREECE
AGENCIA DE INOVACAO - INOVACAO EMPRESARIAL E TRANSFERENCIA DE
TECNOLOGIA - PORTUGAL
INTERACTIVE TECHNOLOGY, SOFTWARE AND MEDIA ASSOCIATION - INDIA
INSTITUT JOZEF STEFAN - SLOVENIA
RESEARCH PROMOTION FOUNDATION - CYPRUS
MINISTARSTVO PROSVJETE I NAUKE - MONTENEGRO
HRVATSKI INSTITUT ZA TEHNOLOGIJU - CROATIA
AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA - ITALY
SINGLEIMAGE LIMITED - UNITED KINGDOM
VEREIN EURESEARCH - SWITZERLAND
BELARUSIAN INSTITUTE OF SYSTEM ANALYSIS AND INFORMATION SUPPORT OF
SCIENTIFIC AND TECHNICAL SPHERE - BELARUS
MINISTRY OF COMMUNICATIONS & INFORMATION TECHNOLOGY - EGYPT
INSTYTUT PODSTAWOWYCH PROBLEMOW TECHNIKI POLSKIEJ AKADEMII NAUK -
POLAND
STARPTAUTISKA LIETISKAS OPTIKAS BIEDRIBA - LATVIA
MALTA COUNCIL FOR SCIENCE AND TECHNOLOGY - MALTA
INSTITUTO TECNOLÓGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY - MEXICO
AGENCE BRUXELLOISE POUR L'ENTREPRISE - BELGIUM
LUXINNOVATION GIE - LUXEMBOURG (GRAND-DUCHÉ)

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL
UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: Idealist2011 aims to address national and cross-border audiences, relying on the NCP network mainly established in the MS and AS at national and regional level, to stimulate, encourage and facilitate the participation in current and future Community ICT research of organisations of all types. Special focus is put on newcomers and SMEs, including organisations from MS, AS and 3rd countries which comprise countries from Eastern Europe Partner Countries (EEPC), Mediterranean Partner Countries (MPC) and selected 3rd countries with high technical and economical potential.

Project Objectives: The main objective of Idealist2011 is reinforcing the network of National Contact Points (NCP) for ICT under FP7, by promoting further trans-national cooperation within this network. This cooperation will not be reduced to only ICT NCPs but also a degree of collaboration and networking with similar networks in parallel themes (Security, SSH, ENV, Transport, Energy, Health,...etc) especially in the context of joint/coordinated calls will be covered. Special focus is put on helping less experienced NCPs from Member States (MS) and Associated States (AS) to access the know-how accumulated in other countries and to apply it in a locally relevant and efficient manner.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 15 120

SK Participant EC Financial Contribution: EUR 13 482

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

IDESA

Project ID: 215180

Project Title: Implementation of widespread IC design skills in advanced deep submicron technologies at European Academia

Project website: www.idesa-training.org

Project Start Date: 2007-12-01

Project End Date: 2010-11-30

Project Total Cost: EUR 1 954 351

Project EC Financial Contribution: EUR 1 450 000

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE,
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KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM
TECHNISCHE UNIVERSITEIT DELFT - NETHERLANDS
ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE - SWITZERLAND
POLITECHNIKA WARSZAWSKA - POLAND
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL - UNITED KINGDOM

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY
IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: The IDESA Support Action will develop and make available didactic training material on the design flow for integrated circuits for advanced deep sub-micron technologies. The project will provide 4 advanced training courses, targeting professors, post-docs and PhDs involved in teaching in engineering master curricula at European universities and polytechnic schools. All handouts, lecturing notes and exercise material will be made available in electronic form, for reuse. The courses will cover analog, mixed RF and digital implementation flows. There will be a special module focusing upon design-for-manufacturability.

Project Objectives: The sole purpose of the proposed IDESA Support Action is to develop and make available didactic training material on the design flow for integrated circuits for advanced deep sub-micron technologies, free of intellectual property rights, for the benefit of European academia. The goal is to make sure that academia can close the widening gap between the current state-of-the-art at the modal European academy and the state-of-the-art in leading industry. This proposal does not have a scientific research component and, except for perhaps academic recognition, it does not bring benefit to any of the project partners.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 48 298

SK Participant EC Financial Contribution: EUR 43 067

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

IDES A-2

Project ID: 246906

Project Title: Implementation of widespread IC design skills in advanced deep submicron technologies at European Academia

Project website: <http://www.idesa-training.org/>

Project Start Date: 2010-09-01

Project End Date: 2013-06-30

Project Total Cost: EUR 1 099 772

Project EC Financial Contribution: EUR 850 000

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

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POLITECHNIKA WARSZAWSKA - POLAND
TECHNISCHE UNIVERSITEIT DELFT – NETHERLANDS

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: The IDESA-2 project is a follow-up of FP7 IDESA-1 support action that addresses training of academic staff (professors, assistant professors and lecturers) from all interested European academia. The sole purpose of the IDESA-2 project is to continue making available didactic training material on the design flow for integrated circuits for advanced deep sub-micron technologies, free of intellectual property rights, for the benefit of European academia. Didactic material was developed and made available for reuse in the course portfolio of bachelor and master engineering curricula in IDESA-1. Training is organised in class-based hands-on sessions and advanced seminars using state-of-the-art multimedia technology over the web or on DVD. There currently is a road show of 4 different advanced implementation courses that tour different sites in Europe. These courses are hands-on courses using a train-the-trainer philosophy. All of these courses address the advanced implementation issues relating to the 90 nm process node. This brings the universities to a more advanced level of implementation skills to start engaging in 65- and 45-nm issues.

Project Objectives: The goal of the project is to develop and make available didactic material. The copyright status of the material will be such that European academia will be able to use this material in their official engineering curricula. Commercial use of the material will be prohibited. The project will provide 4 advanced training courses, targeting professors, post-docs and PhDs involved in teaching in engineering master curricula at European universities and polytechnic schools. All handouts, lecturing notes and exercise material will be made available in electronic form, for reuse. The courses will cover analog, mixed RF and digital implementation flows. There will be a special module focusing upon design-for-manufacturability.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 16 620

SK Participant EC Financial Contribution: EUR 14 819

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

INERTIA

Project ID: 318216

Project Title: Integrating Active, Flexible and Responsive Tertiary Prosumers into a Smart Distribution Grid

Project website: <http://www.inertia-project.eu>

Project Start Date: 2012-10-01

Project End Date: 2015-09-30

Project Total Cost: EUR 5 340 355

Project EC Financial Contribution: EUR 3 640 606

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice

Slovak participant address: LETNÁ 9, 04200 KOŠICE

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PUBLIC POWER CORPORATION S.A. - GREECE

HYPERTECH AE - GREECE

FUNDACION TECNALIA RESEARCH & INNOVATION - SPAIN

ENEL.SI SRL - ITALY

ENGINEERING - INGEGNERIA INFORMATICA SPA – ITALY

TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE- SLOVAKIA

Project Description: INERTIA will offer fine grained control (equivalent or even higher than existing Direct Control Programmes) while also protecting privacy and autonomy on the local level, fully respecting prosumer preferences and needs. INERTIA will promote the efficient integration of flexible demand with distributed generation within the smart grid as the means to tackle the problems resulting from the continuous and massive integration of distributed intermittent and non-controllable renewable sources. INERTIA will propose viable Business Models for flexible service-oriented contracts distributing potential benefits to all stakeholders involved in the DSM value chain...

Project Objectives: INERTIA will introduce the Internet of Things/Services principles to the Distribution Grid Control and DSM Operations. It will provide an overlay network for coordination and active grid control, running on top of the existing grid and consisting of distributed and autonomous intelligent Commercial Prosumer Hubs. This way, it will address the present "structural inertia" of DG by introducing more active elements combined with the necessary control and distributed coordination mechanisms. Semantically enhanced DER (generation and consumption) will be the main constituents of the INERTIA active DG framework. DER will constitute active and flexible components carrying contextual knowledge of their local environment. DER will form dynamic clusters comprising self-organized networks of active nodes that will efficiently distribute and balance global and local intelligence.



Profile of Slovak Participant/ -s: Technical University of Kosice (TUCE) consists of nine faculties with around 16 000 full-time undergraduate students. It employs 900 teachers and the same number of research and administrative staff. Technical University of Kosice is the leader in ICT innovation and development in the Slovakia region. The main faculties related to the business, innovation and networked economy are the Faculty of Economics, Engineering and Informatics and BERG. Their research projects (5,6,7RP) focus on business networking, socio-economic analysis of ICT impact, e-business, trust building in the business networks, knowledge management, web technologies, logistics, eGovernment and regional development. The mission of TUKE is to provide its environment with scientific and technological knowledge basis, innovation and workforce, in order to form beneficial and sustainable future and a high quality of life. This will be achieved at TUKE by innovative research and excellent education in all scientific branches of respective University Faculties. Because of our scientific excellence we are the most successful organization in FPx projects in Slovakia, esp. in IST. TUKE is active in knowledge transfer, regional development and in influencing the public life through participation in several clusters and associations, esp. IT Valley, CEIT, ALADIN, etc. or in a very close cooperation with self-governing regions, regional municipalities, ministries, the chamber of commerce and relevant regional and national stakeholders.

SK Participant Project Cost: EUR 303 279

SK Participant EC Financial Contribution: EUR 228 356

Project Outcomes planned/real: Introduction of the Internet of Things/Services principles to the Distribution Grid Control and Demand side management operations.

Slovak Participant's Role in Project: Semantically enhanced distributed energy resources, semantic models.

IQIT

Project ID: 270843

Project Title: Integrated Quantum Information Technology

Project website: <http://www.iqit-research.eu/home/>

Project Start Date: 2011-10-01

Project End Date: 2015-03-30

Project Total Cost: EUR 2 985 347

Project EC Financial Contribution: EUR 2 260 985

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

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UNIVERSITY OF SUSSEX - UNITED KINGDOM
UNIVERSITA DEGLI STUDI DI SALERNO - ITALY
THE UNIVERSITY COURT OF THE UNIVERSITY OF ST ANDREWS - UNITED KINGDOM
UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA - SLOVAKIA

Project Description: The project aim is to develop and demonstrate novel routes towards scaling up physical devices for Quantum Information Science (QIS) with particular attention to communication between different parts of a quantum processor by means of quantum bus.

Project Objectives: Developing a scalable technology will be pursued by first advancing two successful solid-state and atom-optical devices, namely arrays of superconducting qubits coupled to microwave resonators (here all-optical quantum computing will be explored for the first time in the microwave regime) and highly controlled ion trap systems, and then by combining them to yield a scalable basis for universal quantum computation and processing of quantum information.

This new, integrated scheme will be based on the simultaneous exploitation of superconducting qubits for fast and scalable computational tasks and of trapped ions for storage and processing of information with long coherence times. Integration between the solid-state and atomic devices will be carried out at all levels, including interactions, operations, measurement, control, and optimization. In the development of the project, experiment and theory will closely collaborate at all stages, and importantly, a close collaboration between hitherto mostly separately developing subfields of quantum information science (solid state and atomic-molecular optical physics) will be established allowing to combine the tremendous knowledge and expertise in both fields. The project's long-term vision is an integrated scalable device for QIS. The breakthroughs envisioned are design, realization, and test of a four-qubit integrated processor with superconducting gates and trapped ions register, and, based on the knowledge gained here, the design of a scalable integrated architecture.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 438 000

SK Participant EC Financial Contribution: EUR 328 500

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ITEC

Project ID: 257566

Project Title: Innovative Technologies for an Engaging Classroom

Project website: <http://itec.eun.org>

Project Start Date: 2010-09-01

Project End Date: 2014-08-31

Project Total Cost: EUR 12 525 480

Project EC Financial Contribution: EUR 9 450 000

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INSTITUTO DE EDUCACAO DA UNIVERSIDADE DE LISBOA - PORTUGAL
TIIGRIHUPPE SIHTASUTUS - ESTONIA
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INDIRE ISTITUTO NAZIONALE DI DOCUMENTAZIONE PER L'INNOVAZIONE E LA RICERCA EDUCATIVA - ITALY
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MAKASH - ADVANCING CMC APPLICATIONS IN EDUCATION, CULTURE AND SCIENCE - ISRAEL
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Project Description: iTEC is a large-scale pilot involving up to 1,000 classrooms focused on Learning in the 21st Century and the design of the future classroom. Partners include 14 Ministries of Education, leading ICT vendors, innovative SMEs, TEL researchers, teacher educators and experts in school validations and pedagogical evaluation.

Project Objectives: The key aim is to develop engaging scenarios for learning in the future classroom that can be validated in large-scale pilots and subsequently taken to scale. iTEC produces meaningful pedagogical scenarios (assisted by semantic web technology) for the future

classroom and, from these, derives learning activities and new approaches to assessment that engage teachers, learners and stakeholders outside the school. These are then tested and evaluated in the largest pan-European validation with schools yet undertaken. The iTEC technology approach will make the technical components, (people, tools, services and content) required by the scenarios, interoperable and discoverable, so that teachers can more easily select and combine relevant components tailored to the future classroom scenario of their choice. This is in line with current trends in which teachers can choose from a wide variety of loosely coupled tools and where interactive whiteboards and other interactive, multi-touch technologies may be acting as a 'gateway' for teachers to start exploring the further use of digital technologies in their classrooms. Combined with this, iTEC will research the skills and competences needed by teachers in the future classroom and equip teachers, both within and beyond the project, with the pedagogical knowledge and skills needed to implement project scenarios. Having identified scenarios with the maximum potential to have a transformative effect on the design of the future classroom, the project will implement a mainstreaming strategy designed to ensure that work carried out in the large-scale pilots contribute to the educational reform process.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 192 024

SK Participant EC Financial Contribution: EUR 141 762

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

METABO

Project ID: 216270
 Project Title: Controlling Chronic Diseases related to Metabolic Disorders
 Project website: <http://www.metabo-eu.org/metabo-project/diabetes/>
 Project Start Date: 2008-01-01
 Project End Date: 2012-08-31
 Project Total Cost: EUR 10 443 876
 Project EC Financial Contribution: EUR 7 544 798
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 UNIVERSITY OF PATRAS - GREECE
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 UNIVERSIDAD POLITECNICA DE MADRID - SPAIN
 KUOPION YLIOPISTO - SUOMI/FINLAND
 UNIVERSITA DEGLI STUDI DI PARMA - ITALY
 UNIVERSIDAD POLITECNICA DE VALENCIA - SPAIN
 UNIVERZITA KARLOVA V PRAZE - CZECH REPUBLIC
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 MEGA ELEKTRONIIKKA OY - SUOMI/FINLAND
 MICRODATA PROIGMENI TECHNOLOGIA AE - GREECE
 MEDMARK S.R.O.- SLOVAKIA

Project Description: METABO is a project devoted to the study and support of metabolic management in diabetes for both, patients and specialists. Diabetes disease is currently growing considerably among the population, reaching prevalence levels of epidemic proportions. METABO focuses on the improvement of diabetes disease management by providing patients and medical doctors with a technological platform to help them handle and analyze all information related to diabetes treatment, integrating it with patients' lifestyle data.

Project Objectives: The project addresses the need of health practitioners to develop and implement more effective and adaptive monitoring and modelling processes of chronic diseases for improving care provision, enhancing patients' quality of life and lowering the costs for National Health Systems and individuals.

METABO will set up a comprehensive platform that will relate the clinical dimension of the patients with their daily life and reality through a multi-parametric monitoring system that will gather information of the metabolic status of patients and through a web application where physicians will access all these data together with all regular clinical parameters that are currently used.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MOBILITY2.0

Project ID: 314129
 Project Title: Co-operative ITS Systems for Enhanced Electric Vehicle Mobility
 Project website: <http://mobility2.eu>
 Project Start Date: 2012-09-01
 Project End Date: 2015-02-28
 Project Total Cost: EUR 2 691 580
 Project EC Financial Contribution: EUR 1 999 973
 Slovak participant Name: BROADBIT SLOVAKIA S.R.O.
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 BROADBIT SLOVAKIA S.R.O.- SLOVAKIA

Project Description: Mobility2.0 will develop and test an in-vehicle commuting assistant for FEV mobility, resulting in a more reliable and energy-efficient electro-mobility. In order to achieve a maximum impact, Mobility2.0 adopts an integrated approach of addressing the main bottlenecks of urban FEV mobility: the 'range anxiety' related to the limited FEV range, scarcity of parking spaces with public recharging spots, and the congestion of urban roads. Our integrated approach means that the application developed by Mobility2.0 will utilise co-operative systems to simultaneously consider these bottlenecks, so that such an optimisation can be achieved, which still guarantees a reliable transportation for each FEV owner. Mobility2.0 will focus on assisting the daily urban commuting, which represents the bulk of urban mobility.

Project Objectives: The Mobility2.0 project's primary goal is to develop a co-operative application that has the greatest impact, among the foreseen ITS applications, on mitigating the limited autonomy range and which results in the most significant energy efficiency gains. Therefore; the development of FEV-specific 'Co-operative commuting assistant' system fits well into the call target. This application engages in a co-operative data exchange with the transportation infrastructure to achieve an overall optimisation of the FEV route and the re-charging spot allocation.

Profile of Slovak Participant/ -s: BroadBit has a long research experience in the field of vehicular communications.

BroadBit has successfully contributed to the full technology development cycle of 5.9 GHz 802.11p based co-operative systems; starting from FP7 research project work (GeoNet), continuing with the successful standardisation of GeoNet outcome at ETSI ITS as active contributors, and finally working under ETSI subcontracting on the conformance and interoperability testing of pre-commercial co-operative device implementations ('Co-operative Mobility Services' plug-tests #1 and #2, jointly coordinated by ETSI and Drive-C2X project). Currently BroadBit is contributing to the development of EV-specific communication interfaces within the PowerUp FP7 project (for prototyping of V2G interface) and the Mobility2.0 FP7 project (for optimisation of commuting EV journey management). BroadBit is an active contributor to the standardisation of cooperative communication systems at the ETSI ITS committee and at the ISO/IEC 15118 working group.

SK Participant Project Cost: EUR 354 600

SK Participant EC Financial Contribution: EUR 310 680

Project Outcomes planned/real: Mobility2.0 is developing an in-vehicle commuting assistant for better Electric Vehicle mobility, resulting in a more reliable and energy-efficient electro-mobility. In order to achieve a maximum impact, Mobility2.0 adopts an integrated approach of addressing the main bottlenecks of urban EV mobility: the 'range anxiety' related to the limited EV range, scarcity of parking spaces with public recharging spots, and the congestion of urban roads. Our integrated approach means that the application developed by Mobility2.0 will utilise co-operative systems to simultaneously consider these bottlenecks, so that such an optimisation can be achieved which still guarantees reliable transportation for each EV owner. Mobility2.0 will focus on assisting the daily urban commuting, which represents the bulk of urban mobility.

In this context, the Electric Vehicle-specific guidance aspect includes the integrated reservation of a suitable recharging spot, while also prioritising EVs with low battery levels for the reservation, making optimal use of the available public transportation through integrated multi-modal journey planning, precise EV range estimation which also takes the real-time traffic situation into account, and dynamic pricing of the electricity according to the grid and traffic status. The Mobility2.0 system is currently under field testing in Barcelona and Reggio Emilia, and may be duplicated in other European cities in the near future. More information can be found at www.mobility2.eu project website.

Slovak Participant's Role in Project: Project coordination, Development of smart-phone client application for Electric Vehicle guidance.

OASE

Project ID: 249025

Project Title: Optical Access Seamless Evolution

Project website: <http://www.ict-oase.eu>

Project Start Date: 2010-01-01

Project End Date: 2013-02-28

Project Total Cost: EUR 7 664 241

Project EC Financial Contribution: EUR 4 980 257

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MAGYAR TELEKOM TAVKOZLESI NYILVANOSAN MUKODO RESZVENYTARSASAG - HUNGARY

ERICSSON AB - SWEDEN

ADVA OPTICAL NETWORKING SE – GERMANY

SLOVAK TELEKOM A.S.- SLOVAKIA

Project Description: The OASE Integrated Project will examine Fibre-to-the-Home (FTTH) within a multi-disciplinary study to provide a self-consistent and coherent set of technological solutions. OASE is unique in developing the future NG-OA architecture from a multi-faceted perspective. This shall not only include the technology point of view, but it also encompass the economic, regulatory, environmental and complex business models associated with such open access network architectures.

Project Objectives: The aim of the OASE project is the assessment and development of next-generation optical access (NG-OA) network architectures and systems concepts for the “2020” timeframe, focusing particularly on European requirements. The OASE project will examine FTTH solutions based on four multidisciplinary approaches: regulatory, technical and financial aspects, and business models. OASE will achieve the following objectives:

- study current and future requirements for NG-OA networks from economic, business, operational and regulatory Europe-centric perspectives,

- identify possible network architectures, and employ a set of energy-efficiency metrics and models to analyse their suitability, as well as assess the most appropriate migration strategies,

- identify network technologies that may be employed by using relevant cost and technical factors,

- examine the interactions between businesses in an “open network” marketplace by studying how increased convergence may offer new value chains and business opportunities,

- validate the findings of the comparative merits for the identified network architectures and technologies in a controlled environment via experimental testing.

Profile of Slovak Participant/ -s: Slovak Telekom is the largest Slovak multimedia operator with many years of experience and a responsible approach to business. The company is a universal operator offering residential and corporate clientele benefits of a comprehensive solution provided from a single source. Slovak Telekom offers a full-array of data and voice services, owns and operates the fixed and mobile telecommunications network covering almost the entire territory of the Slovak Republic. In the field of the fixed network, the company systematically invests in the most advanced optical infrastructure, operates the Next Generation Network (NGN) and is the largest broadband provider in the country. As the first multimedia operator, it offers the digital TV Magio via fixed networks and satellite technology DVB-S2. In the field of mobile communication, it provides internet connectivity via several different technologies for high-speed data transmission - GPRS/ EDGE, Wireless LAN (Wi-Fi), UMTS FDD/HSDPA/HSUPA, FLASH-OFDM and LTE. As the first operator in Slovakia, the company launched the MMS messaging service and BlackBerry. According to the renowned study by Hewitt Associates, the company is one of the best employers in Slovakia. It also is a respected and long-term leader in the field of CR and philanthropy. Slovak Telekom is a member of the multinational Deutsche Telekom Group. The Company's majority shareholder (51%) is CMobil B.V., fully owned by Deutsche Telekom AG. The Slovak Republic represented by the Ministry of Economy of the Slovak Republic owns a 34 % share and the National Property Fund of the Slovak Republic 15 % shares.

SK Participant Project Cost: EUR 161 424

SK Participant EC Financial Contribution: EUR 83 418

Project Outcomes planned/real: Consumer bandwidth is showing no signs of slowing down and operators are now forced to explore access network migration strategies that will satisfy the anticipated bandwidth demands for the next decade. However, evolving today's access networks towards NG-OA architectures will require a multi-billion euro investment. Consequently, an important strategic aspect is the need for a thorough techno-economic analysis underpinning the development of NG-OA architectures that feature a minimised total cost of ownership (TCO). New approaches and methodologies to analyse TCO will therefore be required to provide the necessary business case data underlying commercial opportunities arising from such a regulated, yet competitive, market environment. Network energy efficiency issues are also becoming an increasingly crucial aspect due to economic and environmental pressures. The evolution towards an “open access network” environment in which multiple market players will have to cooperate at various levels will require reliable, “zero-touch”, automated management and open interfacing, clear service definitions and low operational complexity. The use of optical technologies as well as network consolidation (reduction of sites and active nodes) to reduce network costs will have to be consistent with the open access network model. Focused on European requirements, OASE (Optical Access Seamless Evolution) will address these challenges to develop an optimised multi-terabit NG-OA architecture that will span at least 100km and serve Gbit/s services to a minimum of 1000 customers. This shall not only include the technology point of view, but also encompass the economic, regulatory, environmental and complex business models associated with such open access network architectures.

Slovak Participant's Role in Project: The work that was performed during OASE project was organized into 8 different work packages which were closely linked. Slovak Telekom participated in several work packages: WP1 (Project management and coordination), WP2 (Requirements for European next generation optical access networks), WP3 (Next generation optical access architecture), WP7 (Experimental validation) and WP8 (Dissemination). ST was responsible for the preparation of deliverables within work packages and contributed to the finalisation of the requirements regarding the migration steps between GPON and NGPON networks. Besides this feedback preparation (from service provider point of view) and document reviewing, the main contribution was done within WP7, where ST prepared migration from GPON to NGPON network (to WDM PON and to TWDM PON) in real network on real ST customers. ST prepared and executed tests of NGPON equipment in the laboratory and then in field network together with rules which defined necessary migration steps and cost calculation. The pilot migration of a friendly user connection was successfully executed in Bratislava in July-September 2012. After the migration, the friendly users were able to use the usual triple play service portfolio provided by Slovak Telekom. Another main result achieved by ST was the proof of the concept regarding the node consolidation architectures specified in OASE.

OCOPOMO

Project ID: 248128

Project Title: Open Collaboration in Policy Modelling

Project website: <http://www.ocopomo.eu/>

Project Start Date: 2010-01-01

Project End Date: 2013-04-30

Project Total Cost: EUR 3 187 040

Project EC Financial Contribution: EUR 2 519 000

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SLOVAK PARTICIPANT 2

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INTERSOFT A.S.- SLOVAKIA

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Project Description: OCOPOMO addresses two levels of scientific and technological advancements: 1) Socio-political: to formulate, model, evaluate and monitor social and economic policies of governments, which are supported by 2) Scientific and technological innovations: drawing together lessons and practical techniques from complexity science, agent based social simulation, foresight scenario analysis and advanced ICT for e-participation.

Project Objectives: The core objective of OCOPOMO is to demonstrate that, with appropriate ICT, the integration of formal policy modelling, scenario generation and open and widespread collaboration is not only possible but essential at all levels of policy formation whether local, regional, national or global. OCOPOMO develops an integrated IT platform for efficient policy development by integrating formal policy modelling, scenario generation, and open collaboration supporting engagement of wide stakeholder groups in social and economic policy areas of two pilots. The project builds on methods and tools of policy modelling and scenario-based foresight and integrates them into a platform of open collaboration among key stakeholders (policy analysts, policy operators, wider interest groups of specific policy domains, etc.) using e-participation tools.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Technical University of Kosice (TUKE) consists of nine faculties with around 16 000 full-time undergraduate students. It employs 900 teachers and the same number of research and administrative staff. Technical University of Kosice is the leader in ICT innovation and development in the Slovakia region. The main faculties related to the business, innovation and networked economy are the Faculty of Economics, Engineering and Informatics and BERG. Their research projects (5,6,7RP) focus on business networking, socio-economic analysis of ICT impact, e-business, trust building in the business networks, knowledge management, web technologies, logistics, eGovernment and regional development. The mission of TUKE is to provide its environment with scientific and technological knowledge basis, innovation and workforce, in order to form beneficial and sustainable future and a high quality of life. This will be achieved at TUKE by innovative research and excellent education in all scientific branches of respective University Faculties. Because of our scientific excellence we are the most successful organization in FPx projects in Slovakia, esp. in IST. TUKE is active in knowledge transfer, regional development and influencing public life through participation in several clusters and associations, esp. IT Valley, CEIT, ALADIN, etc. or in a very close cooperation with self-governing regions, regional municipalities, ministries, the chamber of commerce and relevant regional and national stakeholders.

SK Participant Project Cost: EUR 518 137

SK Participant EC Financial Contribution: EUR 399 041



Project Outcomes planned/real: An integrated IT platform for efficient policy development by integrating formal policy modelling, scenario generation, and open collaboration supporting engagement of wide stakeholder groups in social and economic policy areas of two pilots.

Slovak Participant's Role in Project: Design and implementation of an integrated ICT toolbox supporting all phases of policy development.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 343 033

SK Participant EC Financial Contribution: EUR 265 002

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 3

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 92 680

SK Participant EC Financial Contribution: EUR 76 240

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

PERFORM

Project ID: 215952

Project Title: A sophisticated multi-parametric system for the continuous-effective assessment and monitoring of motor status in parkinson's disease and other neurodegenerative diseases

Project website: www.perform-project.eu

Project Start Date: 2008-02-01

Project End Date: 2011-07-31

Project Total Cost: EUR 8 969 326

Project EC Financial Contribution: EUR 6 756 492

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OXYGEN SOLUTIONS S.R.O. - CZECH REPUBLIC
KINGSTON COMPUTER CONSULTANCY LIMITED - UNITED KINGDOM
MEDMARK S.R.O. - SLOVAKIA

Project Description: The PERFORM project aims to tackle problems associated with the efficient remote health status monitoring, the qualitative and quantitative assessment and the treatment personalisation for people suffering from neurodegenerative diseases and movement disorders, such as Parkinson's disease (PD).

The PERFORM project aspires to research and develop an innovative, intelligent system for monitoring neurodegenerative disease evolution through the employment of a wide range of wearable micro-sensors, advanced knowledge processing and fusion algorithms.

Project Objectives:

To develop wearable devices for the monitoring of the patient health status 24h/day.
To objectively assess patient motor symptoms.
To objectively evaluate disease progression and evolution.
To assess the effectiveness of pharmacological treatment plans.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

POBICOS

Project ID: 223984

Project Title: Platform for Opportunistic Behaviour in Incompletely Specified, Heterogeneous Object Communities

Project website: <http://www.vtt.fi/>

Project Start Date: 2008-05-01

Project End Date: 2011-06-30

Project Total Cost: EUR 3 190 230

Project EC Financial Contribution: EUR 2 299 999

Slovak participant Name: SAE-AUTOMATION, S.R.O

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ACCENTURE SAS - FRANCE

CENTER FOR RESEARCH & TECHNOLOGY – THESSALY – GREECE

SAE-AUTOMATION, S.R.O - SLOVAKIA

Project Description: The POBICOS project targets communities of regular objects with embedded sense-compute-actuate nodes, found in homes and buildings. Such objects are inherently heterogeneous in terms of sensing, actuating and computing resources/capabilities. Moreover, the actual mix of objects available in different settings is practically unknown at the development time. Thus, the main challenge of applications is to take the best possible advantage of any resources that happen to be available at runtime. We refer to this as to an 'opportunistic behaviour'.

Project Objectives: The goal of POBICOS is to design, implement and test a platform that simplifies the task of developing and deploying opportunistic applications in such heterogeneous and incompletely specified object collections. The major S&T objectives are:

- ontology-driven, multi-resolution representations of sensor/actuator resources,
- abstractions for physical node transparency, and
- mechanisms for application deployment and monitoring, ensuring security and privacy.

The domain of home automation and energy-efficient buildings will provide the context for application scenarios and system requirements. The system prototype and applications will be deployed and tested in a special building featuring several sensing and actuating capabilities.

Profile of Slovak Participant/ -s: SAE – Automation is a SME providing software development for communication with different devices and data processing. It has expertise in the

development of firmware and configuration PC software for various embedded systems for example industrial terminals, RTUs, control systems with RF communication for mobile working machines (cranes), modules for data collecting through GSM, GPRS, various communication drivers, development of the home automation system software, ZigBee technology for wireless sensor networks, intranet and web applications. SAE has gained skills in the concept and development of the service oriented middleware and from the development of its own software products as well as from the IST FP6 project NeCST – Networked Control Systems Tolerant to faults www.strep-necst.org.



SK Participant Project Cost: EUR 163 600

SK Participant EC Financial Contribution: EUR 122 700

Project Outcomes planned/real: The POBICOS project targeted computing environments which feature collections of objects, equipped with sense-compute-actuate embedded nodes, which differ in their sensor, actuator and computing resources. Moreover, the actual mix of objects, and the resources provided by those objects, which will be available during execution is partly unknown when programming the application(s).

POBICOS aimed to design, implement and test a platform that simplifies both the development and the deployment of applications for such heterogeneous and incompletely specified systems. The key challenge was to enable applications to take the best advantage of any "resource opportunities" that exist at runtime, provided by the objects that happen to be available. The platform makes such "opportunistic" behaviour largely transparent to the programmer.

The core of the POBICOS platform, including its algorithms and mechanisms, was designed and implemented in a domain-independent way. In addition, the platform was customised for the area of home and building automation with the emphasis on applications for reducing the energy consumption.

Slovak Participant's Role in Project: Management of work package oriented towards the proof of concept applications based on POBICOS platform, participation on development of platform itself, dissemination activities.

POWERUP

Project ID: 285285

Project Title: Specification, Implementation, Field Trial, and Standardisation of the Vehicle-2-Grid Interface

Project website: <http://www.power-up.org/>

Project Start Date: 2011-07-01

Project End Date: 2013-06-30

Project Total Cost: EUR 35 44 246

Project EC Financial Contribution: EUR 2 413 515

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SYSTEMA TEKNOLOTZIS ANONYMI ETAIREIA EFARMOGON ILEKTRONIKIS KAI PLIROFORIKIS - GREECE

PUBLIC POWER CORPORATION S.A. - GREECE

INSTITUT EUROPEEN DES NORMES DE TELECOMMUNICATION – FRANCE

BROADBIT SLOVAKIA S.R.O.- SLOVAKIA

CORINEX COMMUNICATIONS A.S.- SLOVAKIA

Project Description: PowerUp aims to develop the Vehicle-2-Grid (V2G) interface, involving a full development cycle of physical/link-layer specification, charging control protocol design, prototyping, conformance testing, field trials, and standardisation. Its results will ensure that FEVs smoothly integrate into emerging smart-grid networks. Thereby the efficiencies resulting from the robust grid operation may be achieved; V2G capabilities will smoothen the daily fluctuation of electricity demand and will enable FEVs to act as emergency energy supplies. To achieve these desired results, it is essential that any electric vehicle type is compatible with any European smart-grid network.

Project Objectives: V2G technology will be developed in liaison with the ongoing ISO/IEC standardisation of the V2G interface, and it will extend existing smart-metering standards and ETSI ITS standards for vehicular communications. On the grid side, smart electric meters will be enhanced for V2G capability and V2G-specific demand-balancing control algorithms will be researched. The specification phase will synthesise requirements of both the vehicle manufacturers and utility operators. The produced V2G adapter prototypes will undergo conformance testing and field trials. The testing part will also cover safety and security aspects. The field trial activities will demonstrate end-to-end integration with the chain of smart-grid control systems. These trials will be further complemented by simulations of larger V2G uptake rates, which assess V2G impact on grid stability and robustness.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: BroadBit has a long research experience in the field of vehicular communications. BroadBit has successfully contributed to the full technology development cycle of 5.9 GHz 802.11p based co-operative systems; starting from FP7 research project work (GeoNet), continuing with the successful standardisation of GeoNet outcome at ETSI ITS as active contributors, and finally working under ETSI subcontracting on the conformance and interoperability testing of pre-commercial co-operative device implementations ('Co-operative Mobility Services' plug-tests #1 and #2, jointly coordinated by ETSI and Drive-C2X project). Currently BroadBit is contributing to the development of EV-specific communication interfaces within the PowerUp FP7 project (for prototyping of V2G interface) and the Mobility2.0 FP7 project (for optimisation of commuting EV journey management). BroadBit is an active contributor to the standardisation of cooperative communication systems at the ETSI ITS committee and at the ISO/IEC 15118 working group.

SK Participant Project Cost: EUR 397 800

SK Participant EC Financial Contribution: EUR 355 870

Project Outcomes planned/real: The PowerUp project results provide the automotive and electric utility communities with the following results:

- specification of the Electric Vehicle-to-Grid (V2G) interface; a self-contained 'consensus' specification of the V2G protocol stack. These specifications will follow the ISO/IEC 15118 draft standards to the extent that is considered practical for the first implementation, and may be complemented as needed for completeness. PowerUp consortium members shall contribute the project specification results for standardisation.
- specification of a V2G specific load balancing algorithm for the smart-grid.
- automotive V2G adapters for EV integration and V2G ready electricity meter prototypes. These components may be used by EV related follow-up field trials.
- end-to-end demonstration of the V2G system; this may also serve as a model for follow-up field trials.

- V2G interoperability testing capability; relevant for compatibility of follow-up multivendor products.

Slovak Participant's Role in Project: Project coordination, Design of specifications for the testing of the Vehicle-to-Grid interface. Development and testing of power line communications hardware for the Vehicle-to-Grid interface.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 429 016

SK Participant EC Financial Contribution: EUR 328 416

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

PRIMEBITS

Project ID: 215132

Project Title: Printable memory solutions for sensor, ID and media applications

Project website: www.primebits.eu

Project Start Date: 2008-01-01

Project End Date: 2010-12-31

Project Total Cost: EUR 3 986 937

Project EC Financial Contribution: EUR 2 899 999

Slovak participant Name: Ardaco, a.s.

Slovak participant address: Polianky 5, 841 01 Bratislava

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ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE - SWITZERLAND

EVONIK DEGUSSA GMBH - GERMANY

UPC KONSULTOINTI OY - SUOMI/FINLAND

SENSIBLE SOLUTIONS SWEDEN AB - SWEDEN

LEIBNIZ-INSTITUT FUER NEUE MATERIALIEN GEMEINNUETZIGE GMBH – GERMANY

ARDACO, A.S.- SLOVAKIA

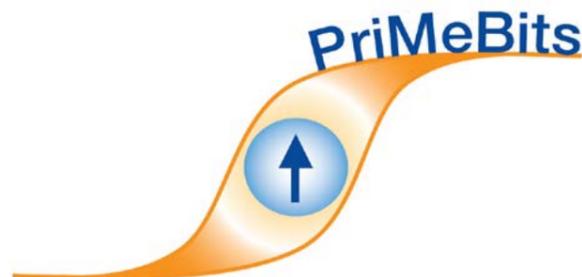
Project Description: Current printable polymer-based memory technologies typically suffer from 1) the required operating voltage being too high, 2) too short a lifetime in room atmosphere, 3) poor temperature stability, 4) chemically reactive materials needing encapsulation, and/or 5) time-consuming temperature-annealing steps in fabrication. Consequently, for many commercially attractive passive and battery-powered applications, the properties of current printable memories are unsuited. To overcome the shortcomings of prior-art approaches, printable inorganic metal-oxide-nanoparticle-based ferroelectric FRAM memory and a resistive metallic-based write-once-read-many (WORM) memory will be developed.

Project Objectives: In the PriMeBits project, a printable electric low-voltage non-volatile memory is developed for printed sensor, media and wireless ID applications. The main strategy is to utilize printed technology where it has a competitive advantage compared to silicon technology. The project builds on basic research of new materials and components and takes the results into prototyping of new applications. To reduce the research risk, two different technologies for the memory functionality are considered with partially overlapping application areas.

Profile of Slovak Participant/ -s: Ardaco, a.s. is a technological SME based in Bratislava, Slovakia. Ardaco puts strong accent on innovations and own technologies development. Its mission is to bring security to free exchange of information. Ardaco has been developing unique solutions and services in the area of communication and secure processing of information, personal identity and privacy protection for over 15 years. In recent years, Ardaco has been actively involved in European and Slovak technological and research cooperation structures such as: EPoSS ETP – former member

of the Steering Board and ARTEMISIA JTI – founding member, former member of Steering board. Previous experience relevant to the project tasks:

Ardaco has been focused on information and communication security from since its establishment. Most of the products have undergone a lot of independent security audits and have been certified by National Security Authority of the Slovak Republic. The SecureCall – a GSM encryption product got certified up to the level NATO Confidential. During the last three years Ardaco has been active in international cooperation programmes of EU. At present, Ardaco is involved in seven projects funded from FP7 and CIP programme. The most significant one is SECRIKOM - Seamless Communication for Crisis Management in which Ardaco is the technical coordinator and integration leader. Ardaco personnel have extensive experience in projects management in international environment, both in the commercial and FP7 fields.



SK Participant Project Cost: EUR 98 720

SK Participant EC Financial Contribution: EUR 74 040

Project Outcomes planned/real: The aim of finished FP7 project was to develop new low-voltage large-area printable electronic memory devices that can be utilized in new and existing markets of printable smart tags for sensor, ID and media applications and electrical sintering. Secondly to develop printable materials (such as ferroelectric nanoparticle-based inks) that also find application outside the scope of the project such as in compact antennas and in tuneable capacitors for RFID. And finally to further develop the application scenarios, end-user concepts, business models and value chains for smart-package and smart-document applications utilizing the project results.

Slovak Participant's Role in Project: Ardaco's role lay in the development of security application scenarios, end-user concepts, business models and value chains for smart-package and smart-document applications utilizing the project results.

PROGR-EAST

Project ID: 248352

Project Title: Innovative PROcurement techniques to support the GRowth of competitiveness for public services in EASTern Europe

Project website: <http://progreast.eu/>

Project Start Date: 2010-07-01

Project End Date: 2012-09-30

Project Total Cost: EUR 482 670

Project EC Financial Contribution: EUR 399 765

Slovak participant Name: BIC BRATISLAVA. SPOL. S.R.O.

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UNIVERZA V LJUBLJANI - SLOVENIA

INNOVATIKA SPZOO – POLAND

BIC BRATISLAVA. SPOL. S.R.O.- SLOVAKIA

Project Description: In the scope of the PROGR-EAST project, the long term sustainable network of public and private stakeholders will be developed in order to: support PCP strategies and policies in Eastern Europe, facilitate dialogue on PCP issues between European stakeholders, support the creation of transnational Public Private Partnerships, and implement innovative public services (e-government).

Project Objectives: The goal of the PROGR-EAST project is to encourage the use of Pre Commercial Procurement (PCP), in 5 targeted European Countries (PL, CZ, SK, HU and SL), taking into consideration the specific needs and constraints for public procurement and in particular for the procurement of R&D existing in Eastern Europe, introducing innovative PCP strategies to public authorities, universities and industrial stakeholders, transferring successful experiences implemented in other European and external regions to implement innovative public services. In particular the PROGR-EAST project is focused on PCP for eGovernment, and on other innovative on-line services for citizens and businesses.

In order to achieve this goal the PROGR-EAST project will produce the following specific outcomes:

- 1) an up-dated state of the art, including needs and constraints for the implementation of PCP in the 5 targeted countries;
- 2) identification and description of the main PCP strategies and policies implemented in Europe and abroad (US, Asia);
- 3) awareness on PCP in each country through 5 workshops and 1 training event;
- 4) 5 pilot actions to support PCP implementation in the targeted Countries;
- 5) policy recommendations addressed to policy makers in the target Countries and at EU level.



Profile of Slovak Participant/ -s: BIC Bratislava was established in 1991 as the first Business and Innovation Centre in the Central and Eastern Europe. Since then BIC Bratislava became a leading expert organisation for entrepreneurial support, internationalisation of businesses, innovation, research and regional development in Slovakia. BIC Bratislava actively cooperates with public and private stakeholders in Slovakia and the EU supporting business, research and innovation.



The main activities of BIC Bratislava: the development of innovative business (BIC Bratislava hosted the first incubator in Slovakia); the support of the public-private (academia-industry) partnerships; supporting innovation and trans-national technological cooperation in Slovakia as a coordinator of Enterprise Europe Network in Slovakia (2008-2014) and Innovation Relay Centres (1997-2008); the formulation of the Regional Innovation Strategies for 4 out of 8 Slovak regions (Bratislava, Trnava, Nitra and Presov) and the development of the RIS 3 for the Bratislava Region (Smart Specialization Strategy) and the National Innovation Strategy S3; building the innovation and technology transfer infrastructure; active membership in national and international networks for research and innovation; analysis and development of financial and non-financial tools for supporting the innovative companies; NCP for Innovation in SME and Access to Risk Finance in Horizon 2020; hosting the NCPs for innovation and SME issues in FP7 and FP5; delivering the Economic and Technological Intelligence projects in FP5/FP6. BIC Bratislava has a long experience in leading and participating in the EU projects focused on research and innovation (more than 50 projects funded by FP4-FP7, CIP, Central Europe Programme 2007-2013, PHARE, IVF from which 10 was coordinated by BIC Bratislava).

SK Participant Project Cost: EUR 90 000

SK Participant EC Financial Contribution: EUR 80 249

Project Outcomes planned/real: In the scope of the PROGR-EAST project, the long term sustainable network of public and private stakeholders has been developed in order to: support PCP strategies and policies in Eastern Europe; facilitate dialogue on PCP issues between European stakeholders; support the creation of transnational Public Private Partnerships; and implement innovative public services (eGovernment). The project was focused on transfer PCP experiences from the European countries, where these methodologies are adopted and successfully implemented by local public authorities, to public administration in targeted eastern European countries, where the use of public procurement to support R&D is still far from appropriate. Innovative PCP strategies were introduced to public authorities, universities and industrial stakeholders. The aim of the project was to encourage the use of Pre Commercial Procurement (PCP), in 5 targeted European countries (Poland, Czech Republic, Slovakia, Hungary and Slovenia), taking into consideration the specific needs and constraints for public procurement and in particular for the procurement of R&D existing in Eastern Europe. This challenge fully responds to the effective need of Eastern European countries to maximize effort and resources to improve the quality of public services, at the same time supporting the competitiveness of local industry and research.

Slovak Participant's Role in Project: BIC Bratislava was responsible for national activities in Slovakia and the Czech Republic. The tasks included preparation of a state of the art report, including needs and constraints for the implementation of Pre Commercial Procurement (PCP); awareness on PCP in each country through 2 workshops and 1 central training event; the development of pilot actions to support PCP implementation in both countries and policy recommendations addressed to policy makers in the target Countries and at EU level. In cooperation with other countries, the activities were focused on the creation of a long term sustainable network of public and private stakeholders able to support PCP strategies and policies in Eastern Europe, by providing a set of services and tools to increase their competences and initiate a platform to facilitate dialogue on PCP issues between European stakeholders.

Q-ESSENCE

Project ID: 248095

Project Title: Quantum Interfaces, Sensors and Communication based on Entanglement

Project website: <http://qessence.eu/>

Project Start Date: 2010-02-01

Project End Date: 2013-04-30

Project Total Cost: EUR 6 508 274

Project EC Financial Contribution: EUR 4 700 000

Slovak participant Name: FYZIKALNY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Physics, Slovak Academy of Sciences

Slovak participant address: Dúbravská cesta 9, 845 11 Bratislava

Contact person email/ phone: Prof. Vladimír Bužek, Vladimir.Buzek@savba.sk, +42122091 0702

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ID QUANTIQUE SA - SWITZERLAND
THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD - UNITED KINGDOM
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MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V. - GERMANY
LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN - GERMANY
FUNDACIO INSTITUT DE CIENCIES FOTONIQUES - SPAIN
KOBENHAVNS UNIVERSITET - DENMARK
FREIE UNIVERSITAET BERLIN - GERMANY
TOSHIBA RESEARCH EUROPE LIMITED - UNITED KINGDOM
UNIVERSITY OF BRISTOL - UNITED KINGDOM
POLITECNICO DI MILANO - ITALY

FYZIKALNY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF PHYSICS, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: Quantum entanglement has the capacity to enable disruptive technologies that solve outstanding issues in:

Trust, privacy protection, and security in two- and multi-party transactions;

- Novel or enhanced modes of operation of ICT devices;

- Reference standards, sensing, and metrology.

The development of entanglement-based strategies addresses these challenges and provides the foundations for quantum technologies of the 21st century. The practical exploitation of entanglement requires groundbreaking levels of robustness and flexibility for deployment in real-world environments.

Project Objectives: Quantum InterfacES, SENSors, and Communication based on Entanglement (Q-ESSENCE)

Integrating Project will aim at:

- Development of quantum interfaces capable of high-fidelity mapping of quantum information between different quantum systems

- Generation of quantum entanglement at new scales and distances as a resource to carry out quantum information tasks

- Engineering multipartite entanglement in specific topologies of elementary systems

These accomplishments will create manifold opportunities in quantum information technologies that will be captured by Q-ESSENCE to develop realistic and complete schemes for executing ICT (Information and Communication Technologies) tasks.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 227 734

SK Participant EC Financial Contribution: EUR 172 400

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

QUIE2T

Project ID: 247597

Project Title: QUantum Information Entanglement-Enabled Technologies

Project website: http://cordis.europa.eu/projects/rcn/93005_en.html

Project Start Date: 2010-02-01

Project End Date: 2013-07-31

Project Total Cost: EUR 752 546

Project EC Financial Contribution: EUR 650 000

Slovak participant Name: FYZIKALNY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Physics, Slovak Academy of Sciences

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EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZURICH - SWITZERLAND
INSTITUT D'OPTIQUE THEORIQUE ET APPLIQUEE IOTA – SUPOPTIQUE - FRANCE
UNIVERSITAET ULM - GERMANY
THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD - UNITED KINGDOM

FYZIKALNY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF PHYSICS, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: The CA QUIE2T aims at strengthening and advancing the European scientific and technological excellence in the field of Quantum Information Foundations and Technologies (QIFT). To achieve this objective, QUIE2T will maintain and expand a set of high-quality coordination measures specifically designed for the QIPC research area.

Project Objectives: To this purpose the QUIE2T initiative is committed to setting up an ultimately sustainable research architecture and to promoting it at the European level. This architecture will be structured around a set of four Virtual Institutes (VIs), mapped to the major QIPC sub-domains as identified by the scientific and technological roadmap „Quantum Information Processing and Communication: Strategic report on current status, visions and goals for research in Europe“ prepared by the QUIE2T predecessor QUROPE. Integration of the VIs is achieved by the execution of the QUIE2T Work-Packages' activities which cut across all the VIs, and in particular by the elaboration of a common vision for the future of the whole QIFT field (and which will be reflected by the update of the aforementioned Strategic Report). In addition QUIE2T will have a proactive role in taking the first steps to ensure the future sustainability of the field.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 244 822

SK Participant EC Financial Contribution: EUR 217 450

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

QUTE-EUROPE

Project ID: 600788

Project Title: Quantum Technologies for Europe

Project website: <http://quantum-technology.com>

Project Start Date: 2013-02-01

Project End Date: 2016-01-31

Project Total Cost: EUR 885 500

Project EC Financial Contribution: EUR 780 000

Slovak participant Name: FYZIKALNY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Physics, Slovak Academy of Sciences

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FONDAZIONE BRUNO KESSLER - ITALY
FUNDACIO INSTITUT DE CIENCIES FOTONIQUES – SPAIN

FYZIKALNY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF PHYSICS, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: Research in Quantum Information and Communication Technologies (QICT) has since many years gained an important European dimension. The number of research groups active in the field as well as the number of publications testify to the vigorous and scientifically proliferate state of the community and show that QIPC research in Europe is well on par and highly competitive with comparable activities elsewhere in the world.

The Coordination Action (CA) QUTE-EUROPE will continue to advance this European excellence via a structured approach towards the implementation of key topics such as a strategic vision, collaboration and dissemination. It will carry out a set of actions that are specifically targeted at coordination and cooperation within the QICT research community in Europe and beyond, as well as increasing the visibility of the field to the scientific global community, industries and the public at large.

Project Objectives: The CA will operate in three coordination work packages that are mapped to three identified key topics: 'Vision', 'Support' and 'Interaction':
- The key area Vision is concerned with the coordination and development of a common strategic vision in the field of QIPC within the research community.

- The key area Support will carry out a number of supporting activities that are mainly directed towards dissemination and the spreading of excellence within the community and beyond.

- Finally, the key area Interaction will foster links within the community of international research groups, and with QIPC stake holders from outside the research community. The CA will set up a work structure with the ultimate goal of making the research community and its scientific achievements internationally recognised and sustainable. This will guarantee that the expertise and the knowledge gained through the CA activities will be of benefit to the European QIPC research community, the global QIPC community and all involved stake holders in the field.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 480 000

SK Participant EC Financial Contribution: EUR 426 900

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

RASIMAS

Project ID: 610425

Project Title: Regional Anaesthesia Simulator and Assistant

Project website: <http://rasimas.imib.rwth-aachen.de/>

Project Start Date: 2013-11-01

Project End Date: 2016-10-31

Project Total Cost: EUR 4 553 351

Project EC Financial Contribution: EUR 3 321 679

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, University of Zilina

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KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM

SENSEGRAPHICS AB - SWEDEN

STIFTELSEN SINTEF - NORWAY

INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET EN AUTOMATIQUE - FRANCE

UNIVERSITY COLLEGE CORK, NATIONAL UNIVERSITY OF IRELAND, CORK - ÉIRE/ IRELAND

FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE

RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN – GERMANY

ZILINSKA UNIVERZITA V ZILINE, UNIVERSITY OF ZILINA- SLOVAKIA

Project Description: Regional anaesthesia (RA) has been used increasingly during the past four decades. This is addressed to the perceived advantages of reduced postoperative pain, earlier mobility, shorter hospital stay, and significantly lower costs. The performance of regional anaesthesia necessitates blocking the peripheral nerves by local injection of anaesthetic. Clinically this is achieved by the insertion of the injection needle close to the peripheral nerve, which is visualized with ultrasound and the proximity of the needle to the nerve is assessed with an electric nerve stimulator. However, it is a subtle technique and requires good theoretical, practical, and non-cognitive skills to allow trainees to achieve confidence in performing regional anaesthesia and to keep complications to a minimum. Current training methods for regional anaesthesia include cadavers, video teaching, ultrasound guidance, and simple virtual patient modelling. These techniques have limited capabilities and do not consider individual anatomy. The Virtual Physiological Human (VPH) creates the possibility to generate patient-specific computer models and apply them to RA procedures.

Project Objectives: The goal of this project is to increase the application, the effectiveness and the success rates of RA and furthermore the diffusion of the method into a broader clinical use through the development of patient-specific VPH models for anaesthesia. We aim at developing two independent but complementary systems, one system for training and one for guidance: a patient-specific Regional Anaesthesia Simulator (RASim) enhanced with ultrasound guidance and a Regional Anaesthesia Assistant (RAAs), which will assist the physicians to localize the nerve during the actual procedure. The RASimAs project will combine both, offering the possibility of training in the regional anaesthesia technique during the training phase of the physician and providing assistance during the clinical application of regional anaesthesia at later stages.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 103 520

SK Participant EC Financial Contribution: EUR 74 600

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

REMINE

Project ID: 216134

Project Title: HIGH PERFORMANCES PREDICTION, DETECTION AND MONITORING PLATFORM FOR PATIENT SAFETY RISK MANAGEMENT

Project website: N/A

Project Start Date: 2008-01-01

Project End Date: 2011-06-30

Project Total Cost: EUR 7 609 824

Project EC Financial Contribution: EUR 4 238 318

Slovak participant Name: INDRA Slovakia, a.s.

Slovak participant address: Plynárenská 7/A, 821 09 Bratislava

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RESEARCH IN ADVANCED MEDICAL INFORMATION AND TELEMATICS VZW - BELGIUM

TECHNISCHE UNIVERSITAET WIEN - AUSTRIA

HEWLETT PACKARD ITALIANA SRL - ITALY

INFO WORLD SRL - ROMANIA

LINK CONSULTING - TECNOLOGIAS DE INFORMACAO S.A. - PORTUGAL

QUALITY & RELIABILITY A.E. - GREECE

CONSORZIO PER L'INNOVAZIONE NELLA GESTIONE DELLE IMPRESE E DELLA

PUBBLICA AMMINISTRAZIONE DENOMINATO ANCHE „MIP (MASTER IMPRESE-

POLITECNICO) - ITALY

THE ROTHERHAM NHS FOUNDATION TRUST - UNITED KINGDOM

REGIONE LOMBARDIA - ITALY

QUALITY AND SYSTEMS CONSULTING LTD - UNITED KINGDOM

INDRA Slovakia, a.s.- SLOVAKIA

AMINIO AB - SWEDEN

SUUPOHJAN ELINKEINOTOIMEN KUNTAYHTYMA - SUOMI/FINLAND

Project Description: According to recent studies, Risks Against Patient Safety (RAPS) represent one of the most important factors of dead in hospitals: during therapy, more than 8% of patients recovered in hospitals suffer for additional disease that in almost 50% of the cases produce either dead or significant additional health problems. RAPS occur in any stage of the patient care process. REMINE project idea originates from the common difficulty in conducting a analysis, early identification and effective prevention on RAP when there are significant mass of inhomogeneous data sources, stored in multimedia databases, and a distributed environments with different care professionals contemporary involved.

Project Objectives: To contrast the RAPS trends and the malpractices diffusion, REMINE prosecutes a number of main objectives. a new technological platform, new care process organizational requirements. Main elements are: mining of multimedia data; modelling, prediction, detection of RAPS, RAPS management support system and info broker patient safety framework.

Main outcomes of REMINE will be: time reduction in collecting data, time reduction in RAPS analysis, standardization of common language, evolution in the interaction model, reference framework, patient safety improvement, health care cost saving (within an estimated RAPS reduction between 6% to 9% of RAPS).

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 727 241

SK Participant EC Financial Contribution: EUR 389 999

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SIQS

Project ID: 600645

Project Title: Simulators and Interfaces with Quantum Systems

Project website: https://forschdb2.unibas.ch/inf2/rm_projects/object_view.php?r=1602031

Project Start Date: 2013-05-01

Project End Date: 2016-04-30

Project Total Cost: EUR 11 784 632

Project EC Financial Contribution: EUR 8 800 000

Slovak participant Name: FYZIKALNY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Physics, Slovak Academy of Sciences

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CONSIGLIO NAZIONALE DELLE RICERCHE - ITALY

TECHNISCHE UNIVERSITEIT DELFT - NETHERLANDS

UNIVERSITAET WIEN - AUSTRIA

OESTERREICHISCHE AKADEMIE DER WISSENSCHAFTEN - AUSTRIA

RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITAET BONN - GERMANY

ID QUANTIQUE SA - SWITZERLAND

THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD - UNITED KINGDOM

TECHNISCHE UNIVERSITAET MUENCHEN - GERMANY

STICHTING CENTRUM VOOR WISKUNDE EN INFORMATICA - NETHERLANDS

FUNDACIO INSTITUT DE CIENCIES FOTONIQUES - SPAIN

UNIVERSITE DE GENEVE - SWITZERLAND

UNIWERSYTET WARSZAWSKI - POLAND

MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V. - GERMANY

UNIVERSITY OF STRATHCLYDE - UNITED KINGDOM

UNIVERSITAET BASEL - SWITZERLAND

JOHANNES GUTENBERG UNIVERSITAET MAINZ - GERMANY

TECHNISCHE UNIVERSITAET WIEN - AUSTRIA

NATIONAL UNIVERSITY OF SINGAPORE - SINGAPORE

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UNIVERSITAET STUTTGART - GERMANY

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FYZIKALNY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF PHYSICS, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: The overarching goal of the project is to develop systems based on direct and deterministic interactions between individual quantum entities, which by involving large-scale entanglement can outperform classical systems in a series of relevant applications.

Project Objectives: The project plans to achieve that by improving technologies from atomic, molecular and optical physics as well as from solid-state physics, and by developing new ones, including combinations across those different domains. We will explore a wide range of experimental platforms as enabling technologies: from cold collisions or Rydberg blockade in neutral atoms to electrostatic or spin interactions in charged systems like trapped ions and quantum dots; from photon-phonon interactions in nano-mechanics to photon-photon interactions in cavity quantum electrodynamics and to spin-photon interactions in diamond colour centres. Reserachers will work on two deeply interconnected lines to build experimentally working implementations of quantum simulators and of quantum interfaces. This will enable us to conceive and realize applications exploiting those devices for simulating important problems in other fields of physics, as well as for carrying out protocols outperforming classical communication and measurement systems.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 133 334

SK Participant EC Financial Contribution: EUR 100 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SMAC

Project ID: 288827

Project Title: SMArt systems Co-design

Project website: <http://www.fp7-smac.org/>

Project Start Date: 2011-10-01

Project End Date: 2015-03-30

Project Total Cost: EUR 13 043 170

Project EC Financial Contribution: EUR 8 197 000

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)- SLOVAKIA

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ON SEMICONDUCTOR BELGIUM BVBA - BELGIUM

KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM

THE UNIVERSITY OF NOTTINGHAM - UNITED KINGDOM

UNIVERSITA DEGLI STUDI DI CATANIA - ITALY

TECHNISCHE UNIVERSITEIT EINDHOVEN - NETHERLANDS

EDALAB SRL - ITALY

AGILENT TECHNOLOGIES BELGIUM NV - BELGIUM

UNIVERSITY COLLEGE CORK, NATIONAL UNIVERSITY OF IRELAND, CORK - ÉIRE/ IRELAND

PHILIPS MEDICAL SYSTEMS NEDERLAND BV - NETHERLANDS

POLITECNICO DI TORINO - ITALY

COVENTOR SARL - FRANCE

ST-POLITO SOCIETA' CONSORTILE A R.L. - ITALY

INSTYTUT TECHNOLOGII ELEKTRONOWEJ - POLAND

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL

UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: Smart systems consist of heterogeneous subsystems and components providing different functionalities; they are normally implemented as Multi-Package on a Board. To fully exploit the potential of current nanoelectronics technologies, as well as to enable the integration of existing/new IPs and More than Moore devices, smart system miniaturization and Multi-Chip in a Package implementation are unavoidable. Such goals are only achievable if a flexible software platform (i.e., the SMAC platform) for smart subsystems/components design and integration is made available to designers and system integrators. The platform must include methodologies and EDA tools enabling multi-disciplinary and multi-scale modelling and design, simulation of multi-domain systems, subsystems and components at all levels of abstraction, system integration and exploration for optimization of specific metrics, such as power, performance, reliability and robustness.

Project Objectives: Key ingredients for the construction of the SMAC platform include: (1) The development of a cosimulation and co-design environment which is aware (and thus considers) the essential features of the basic subsystems and components to be integrated. (2) The development of modelling and design techniques, methods and tools that, when added to the platform, will enable multi-domain simulation and optimization at various levels of abstraction and across different technological domains. The SMAC platform will allow to successfully address the following grand challenges related to the design and manufacturing of miniaturized smart systems: (1) Development of innovative smart subsystems and components demonstrating advanced performance, ultra low power and the capability of operating under special conditions (e.g., high reliability, long lifetime). (2) Design of miniaturized and integrated smart systems with advanced functionality and performance, including nanoscale sensing systems, possibly operating autonomously and in a networked fashion.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 258 710

SK Participant EC Financial Contribution: EUR 198 643

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SMARTCODE

Project ID: 247473
 Project Title: Smart Control of Demand for Consumption and Supply to enable balanced, energy-positive buildings and neighbourhoods
 Project website: www.fp7-smartcode.eu
 Project Start Date: 2010-01-01
 Project End Date: 2012-12-31
 Project Total Cost: EUR 3 322 786
 Project EC Financial Contribution: EUR 2 299 538
 Slovak participant Name: Ardaco, a.s.
 Slovak participant address: Polianky 5, 841 01 Bratislava
 Contact person email/ phone: Juraj Hajek, Email: info@ardaco.com Tel. +421 (2) 3221 2311
 Partners of the Consortium:
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 QUIET REVOLUTION LTD - UNITED KINGDOM
 TRIDONICATCO GMBH & CO KG - AUSTRIA
 INFINEON TECHNOLOGIES AUSTRIA AG - AUSTRIA
 TECHNISCHE UNIVERSITAET WIEN - AUSTRIA
 UNIVERZITET U NOVOM SADU FAKULTET TEHNICKIH NAUKA - SERBIA
 ENNOVATIS GMBH - GERMANY
 ARDACO, A.S. - SLOVAKIA

Project Description: Future buildings and neighbourhoods are expected to combine a manifold of Energy using Products (Eup) ranging from electrical lighting to HVAC with locally available renewable energies (e.g. solar energy, the wind) and with locally available storages (e.g. car batteries). An intelligent management of energy in such a local grid would enable customers to participate in the energy market and even contribute to the stability of the power grid. The problem is that such an energy management requires fine grained infrastructure and expensive hardware. Today, this limits the applicability of energy management to large consumers in the industrial and commercial sector.

Project Objectives: The objective of SmartCoDe is to enable the application of advanced techniques for energy management in private and small commercial buildings and neighbourhoods by

- developing new methods for automated energy management that specifically considers the requirements of Energy using Products in homes / offices and local renewable energy providers, considering the required information security and dependability;
- developing an inexpensive hardware/software implementation that can be integrated into arbitrary Energy using Products, providing them with the ability to communicate and to remotely control its use of power;
- demonstration of technical and economic feasibility and benefit of intelligent energy management in buildings and neighbourhoods with an initial focus on electric lighting.

Profile of Slovak Participant/ -s: Ardaco, a.s. is a technological SME based in Bratislava, Slovakia. Ardaco puts strong accent on innovations and own technologies development. Its mission is to bring security to free exchange of information. Ardaco has been developing unique solutions and services in the area of communication and secure processing of information, personal identity and privacy protection for over 15 years. In recent years, Ardaco has been actively involved in European and Slovak technological and research cooperation structures such as: EPoSS ETP – former member of the Steering Board and ARTEMISIA JTI – founding member, former member of Steering board. Previous experience relevant to the project tasks:

Ardaco has been focused on information and communication security from since its establishment. Most of the products have undergone a lot of independent security audits and have been certified by National Security Authority of the Slovak Republic. The SecureCall – a GSM encryption product got certified up to the level NATO Confidential. During the last three years Ardaco has been active in international cooperation programmes of EU. At present, Ardaco is involved in seven projects funded from FP7 and CIP programme. The most significant one is SECRIKOM - Seamless Communication for Crisis Management in which Ardaco is the technical coordinator and integration leader. Ardaco personnel have extensive experience in projects management in international environment both in the commercial and FP7 fields.



SK Participant Project Cost: EUR 230 320

SK Participant EC Financial Contribution: EUR 175 100

Project Outcomes planned/real: The research project was focused on energy management in Smart Energy Grids at a local level such as buildings and neighbourhoods. Intelligent energy management combined traditional sources of energy together with local energy sources and storages like the wind and solar energy or hybrid car and electrocar batteries. The SmartCoDe project has proven that a low-cost, low-power microelectronic component developed in the project could enable Energy using and producing Products (EupP) to become part of a locally managed energy resource cluster. In such a local cluster EupPs can constantly be monitored. With the help of the aforesaid component they can further react on the basis of energy grid requirements as well as on the forecasts of local energy generation and consumption.

A roll-out analysis example of the SmartCoDe concept to only 10 % of the 40.3 million households in Germany indicated an energy saving potential of 5.2 TWh per year and an additional potential of 1.6 TWh of regulating energy per year, i.e. energy that can either be used to balance the local energy consumption / production curve or that can be provided as a service to the grid operator for the purpose of grid stability. The latter, however, implies that a communication infrastructure will be established on lower grid levels.

One of the show-stoppers is the absence of standardisation when it comes to the integration of household equipment into DSM approaches. A promising step in the right direction is the EC initiative eeSemantics, which focuses on the communication of smart appliances at information level in smart homes. The SmartCoDe project contributed to the initiative with its EupP classification.

Slovak Participant's Role in Project: Ardaco's role in the project includes security analysis and the implementation of security layer for used protocols with respect to existing restrictions such as computational power, energy usage, bandwidth and availability of PKI infrastructure. Another important aspect is the lifetime of keys and certificates together with the possibility to upgrade algorithms, because of the expected lifetime of Smart Energy Devices in the future years.

SMESPIRE

Project ID: 296307
 Project Title: A European Community of SMEs built on Environmental Digital Content and Languages
 Project website: <http://www.smespire.eu>
 Project Start Date: 2012-05-01
 Project End Date: 2014-04-30
 Project Total Cost: EUR 1 979 328
 Project EC Financial Contribution: EUR 1 791 000
 Slovak participant Name: SLOVENSKA AGENTURA ZIVOTNEHO PROSTREDIA, The Slovak Environmental Agency (SAZP)
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 Contact person email/ phone: Mr. Martin Koska, martin.koska@sazp.sk, 048 4374143
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 EPSILON INTERNASIONAL ANONYMI ETAIREIA MELETON KAI SYMVOULON (EPSILON INTERNATIONAL SA) - GREECE
 GISTANDARDS LTD - UNITED KINGDOM
 KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM
 PARAGON LIMITED - MALTA
 CENIA, CESKA INFORMACNI AGENTURA ZIVOTNIHO PROSTREDI - CZECH REPUBLIC
 TRABAJOS CATASTRALES S.A. - SPAIN
 GISIG - GEOGRAPHICAL INFORMATION SYSTEMS INTERNATIONAL GROUP ASSOCIAZIONE - ITALY
 JRC - JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM
 PROF. SCHALLER UMWELTCONSULT GMBH - GERMANY
 FONDAZIONE GRAPHITECH - ITALY
 EPSILON CONSULTING LIMITED - CYPRUS
 UAB AEROGODEZIJOS INSTITUTAS - LITHUANIA
 INFO-LOGICA OOD - BULGARIA
 SLOVENSKA AGENTURA ZIVOTNEHO PROSTREDIA, THE SLOVAK ENVIRONMENTAL AGENCY (SAZP)- SLOVAKIA

Project Description: The INSPIRE Directive 2007/2/EC establishes an Infrastructure for Spatial Information in Europe, requiring large amounts of environmental digital content to be made accessible across Europe, resulting in a data pool that is expected to be of huge value for a myriad of value-added applications. The INSPIRE Implementing Rules Legal Acts outlines these data pools, but more work is needed.

Making data available according to the INSPIRE standards in 30 countries using 22 languages requires specific skill sets that few public authorities have. The management of this content represents an opportunity for SMEs active in this sector.

SMEs can enable countries to fulfil the Directive, creating new market opportunities with increased potential for innovation and new jobs. Due to the legal requirements, the INSPIRE implementation becomes the entry-point for

crucial business opportunities, opening new, or reinforcing existing perspectives (including Linked Open Data, Sensor Web, cloud computing and other e-environment application domains).

Project Objectives: SmeSpire's purpose is to encourage and enable the participation of SMEs in the mechanisms of harmonising and making large scale environmental content available. SmeSpire will:

- 1) assess the market potential for SMEs in relation to INSPIRE as an integral component of the Digital Agenda for Europe, describing obstacles for SMEs in entering this market in terms of knowledge gaps;
- 2) collate, translate and exploit a Best Practice Catalogue in the management of environmental content;
- 3) develop a multilingual package to train environmental data analysts in the maintenance and exploitation of environmental data commons, and;
- 4) create a network capable of transferring result-driven knowledge throughout Europe with research centres, environmental agencies, progressive technology providers and digital content providers;

SmeSpire offers the Commission an early integration of results for relevant programmes (ISA) directly into the knowledge base of geo-ICT SMEs.

Profile of Slovak Participant/ -s: SAZP (Slovak Environment Agency) is a public sector organisation of the Ministry of the Environment of the Slovak Republic (MoE SR) with focus on the environmental protection and landscape planning in accordance with the principles of sustainable development. Together with legislation implementation support, the agency is a registered research body. SAZP acts as Member state contact point and coordinator for INSPIRE (<http://inspire.ec.europa.eu/index.cfm/pageid/481>), as well as a coordinating body for Copernicus related activities (<http://www.copernicus.eu/>). SAZP is also the National Focus Point for the European Environment Agency in the Slovak Republic (<http://www.eea.europa.eu/about-us/countries-and-eionet/list-of-members-of-the-nfp-eionet-group>). In the field of environmental monitoring and informatics SAZP is actively involved in the area of design, development and implementation of environmental information systems with focus on geoinformatics, driven by legislation, relevant standards, IT evolution and stakeholders requirements.

SK Participant Project Cost: EUR 84 986

SK Participant EC Financial Contribution: EUR 84 981

Project Outcomes planned/real: Assessment of market potential for SMEs in relation to INSPIRE as an integral component of the Digital Agenda for Europe, describing obstacles for SMEs to enter this market in terms of knowledge gaps; collation, translation and exploitation of a Best Practice Catalogue in the management of environmental content; development of a multilingual package to train environmental data analysts in the maintenance and exploitation of environmental data commons; creation of a network capable of transferring result-driven knowledge throughout Europe with research centres, environmental agencies, progressive technology providers and digital content providers.

Slovak Participant's Role in Project: Contributor

SMILING

Project ID: 215493

Project Title: Self Mobility Improvement in the eLderly by counteractiNG falls

Project website: <http://www.smilingproject.eu/>

Project Start Date: 2008-01-01

Project End Date: 2010-06-30

Project Total Cost: EUR 2 868 053

Project EC Financial Contribution: EUR 2 250 000

SLOVAK PARTICIPANT 1

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice

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SLOVAK PARTICIPANT 2

Slovak participant Name: VYSOKOSPECIALIZOVANY ODBORNY USTAV GERIATRICKY SV. LUKASA V KOSICIACH N.O.

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Partners of the Consortium: ISTITUTO NAZIONALE DI RIPOSO E CURA PER ANZIANI V.E. II - ITALY

STICHTING IMEC NEDERLAND - NETHERLANDS

HOSPICES CANTONNAUX - CENTRE HOSPITALIER UNIVERSITAIRE VAUDOIS - SWITZERLAND

ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE - SWITZERLAND

UNIVERSITY OF STRATHCLYDE - UNITED KINGDOM

ALMA MATER STUDIORUM-UNIVERSITA DI BOLOGNA - ITALY

AB.ACUS SRL - ITALY

MERCAZ MISHAN LTD - ISRAEL

STEP OF MIND LTD - ISRAEL

TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE- SLOVAKIA

VYSOKOSPECIALIZOVANY ODBORNY USTAV GERIATRICKY SV. LUKASA V KOSICIACH N.O.- SLOVAKIA

Project Description: Mobility means freedom, flexibility and autonomy for all citizens, including older persons. Aging is characterized by functional changes in the sensory, neurological and musculoskeletal systems, affecting motion tasks including gait and postural balance. Gait and balance disturbances in the elderly are the main risk factor for falling. The SMILING project is planning to diminish age related impairments by interfering with the mobility disability and improving implementation into real life situations. Research undertaken in USA and Israel has shown strong indications that the vicious circle of muscle weakness and time delay of the Central Nervous System (CNS) that causes gait and balance impairment could be weakened by applying unexpected external motion perturbations.

The elderly at risk of falling can be considered to be suffering from an involuntary and stereotyped motion behaviour that restricts their participation in society. One method to overcome such a situation is to break the stereotyped motion schema and activate a new learning process to improve their approach to real life tasks. To pursue such a target, the SMILING project will use the chaos theory and dynamic systems theory with applications in the training of the ageing populations. The SMILING solution, a wearable non-invasive computer-controlled system, is aimed to perform chaotic perturbations to lower limbs during active walking by small alterations of the height and slope of weight-bearing surfaces. SMILING will implement a systemic solution to re-model training sessions used prevalently at fitness clubs or home environments to facilitate and ameliorate walking schemas. It will not develop any assistive technology to cope with ageing-related mobility limitations but will offer a reorganization of the rehabilitation process in ageing, through new training procedures and advanced technologies needed to deliver them.

Project Objectives: SMILING develops innovative training programs for elderly people, to be accomplished at home, at fitness clubs and health centres, with the aims of improving walking and balance, and to prevent and counteract falling.

The overall objectives are:

1) To develop and construct an advanced prototype of a wearable non-invasive computerized miniature system for mechanical chaotic perturbations of gait pattern in order to counteract and prevent tendencies to fall. Two prototypes of wearable motorised shoes were developed to test their acceptability by the elderly and their reliability in training as you can see in the pictures on the left. One was selected for a wider clinical testing on groups of elderly in four countries. The system is composed by a motorised pair of shoes driven by a devoted electronics; a wireless module to allow gait phases detection and complete walking analysis investigation; a User Control Unit to allow the subject undergoing training to manage his/her own training program.

2) To develop stimulation algorithms fitted to suit individual user's specific needs.

This part of the project is currently in progress. A set of training tasks has been identified and proposed to elderly people for validation. The aim is to identify which training paradigms may benefit from the SMILING system concept.

3) To implement a system of training to be spread in rehabilitation, health care and fitness centres for a reorganization of the rehabilitation process in ageing. Also if dissemination and exploitation actions are already approaching stakeholders in the rehabilitation field, this will be accomplished in the very late part of the project, when preliminary results from the SMILING system validation will allow us to prove its acceptability and usability.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: The Technical University of Košice, Faculty of Mechanical Engineering, Department of Automation, Control and Human Machine Interactions (KARaKR) covers the education of subjects focused on automation and control, especially in: technologies from the area of cybernetics, procedural and discrete automation, sensors systems, theory and practise in automation control, modelling and simulation with the usage of artificial methods and human computer interfaces. The Department performs scientific research, particularly in these areas: automation and control in industry as well as human fields, the artificial intelligence methods usage for identification, modelling, simulation and control of nonlinear systems and biometrics, modelling and development of human-machine interfaces. The Laboratory of Kinesiologic and Biometric Measurements also had an important role in this project. This research and teaching laboratory is equipped with a six camera optical system for motion analysis - SMART, force plates Kistler, 16 -channel tele- EMG and several small ergonomic and kinesiology gauges - dualer for measurement of the range of motion of the biomechanical segments, fingers and palm force transducer, or muscles force of the limbs. This laboratory is used for motion analysis, which is applied in medical practice, as well as for applications in robotics and for the interactions analysis in human-machine systems and human-computer interactions.

SK Participant Project Cost: EUR 184 176

SK Participant EC Financial Contribution: EUR 144 132

Project Outcomes planned/real: The SMILING project has developed an innovative mechatronic system that can be considered as state-of-the-art in the field of rehabilitation, as it is based on the scientific idea on the Chaos theory and Dynamic system theory to support the rehabilitation process in ageing and particularly in the prevention of falling. The main goal was to develop a rehabilitation device –The Smiling shoe- a wearable non-invasive computer-controlled system that applies chaotic perturbations to the lower limb during walking through small alterations of the height and slope of weight-bearing surfaces. The SMILING system, in its present format, is a complete system for walking assessment and training and it consists of four main modules: i) a motorized pair of shoes, ii) a user friendly portable control unit, iii) a set of PC based algorithms for ad hoc perturbation generation, iv) a complete facility for walking assessment.

The project has delivered a set of fully functional prototypes that have undergone clinical validation and the technical and formal goals of the project have also been achieved.

Slovak Participant's Role in Project: The roles of Slovak technical partner were:

- development of TUKE shoes – a mechanical part as an alternative to the STRATH mechanical design of the shoes, for the development of the motor control system, and local testing in Kosice;

- development, testing and optimization of motor control unit (MCU) hardware (HW) and firmware supporting all required basic Smiling shoe functionalities (perturbation download, actuators driving, UCU - users control unit);

- testing of all software and hardware interfaces to other Smiling shoe components;

- testing with young researchers in the laboratory used for evaluation of TUKE version shoe ergonomics;

- calculations for analysis of ankle safety relating to shoe declinations;

- production of 10 hardware MCUs optimized for The Smiling shoe mechanical constraints;

- the implementation and testing of software implemented protocols with all external Smiling components;

- creation and testing of appropriate perturbation patterns to provide appropriate chaotic signals with required behaviour;

- performing a clinical trial with prototypes of The Smiling shoe together with geriatric clinics in Košice;

- measurements and testing of seniors' gait before, during validation and after clinical trials (kinematic and kinetic measurements with SMART system, Kistler platforms and S Sense modules);

- validation of clinical trials.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 58 587

SK Participant EC Financial Contribution: EUR 45 940

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SPIKE

Project ID: 217098
Project Title: Secure Process-oriented Integrative Service Infrastructure for Networked Enterprises
Project website: <http://www.spike-project.eu/>
Project Start Date: 2008-01-01
Project End Date: 2011-03-31
Project Total Cost: EUR 2 829 936
Project EC Financial Contribution: EUR 1 964 396

SLOVAK PARTICIPANT 1

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice

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+421-55-602 3259

SLOVAK PARTICIPANT 2

Slovak participant Name: INTERSOFT A.S.

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Partners of the Consortium:

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IT INKUBATOR OSTBAYERN GMBH - GERMANY

CITEC INFORMATION OY AB - SUOMI/FINLAND

ADDIT DIENSTLEISTUNGEN GMBH & CO KG - AUSTRIA

INFINEON TECHNOLOGIES IT-SERVICES GMBH - AUSTRIA

UNIVERSIDAD DE MALAGA – SPAIN

TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE- SLOVAKIA

INTERSOFT A.S.- SLOVAKIA

Project Description: The purpose of the SPIKE project is to develop a software service platform for the easy and fast start-up of virtual business alliances.

This platform will:

- enable outsourcing the of parts of the value chain to business partners;
- simplify collaboration between the members of participating organisations through a dynamically created and pre-defined business processes and workflow;
- achieve interoperability and integration between organisations of all sizes;
- offer generic solutions for inter-enterprise interoperability and collaboration through reference scenarios and guidelines for their use;
- have a special focus on security and trust.

Project Objectives: The aim of SPIKE is to research and implement a system that will bring flexibility to the collaboration between networked enterprises. Using SPIKE, enterprises can gain business opportunities with previously inaccessible customers and partner organisations. The project targets two main organisational objectives: first, outsourcing parts of the value chain to business partners (and vice

versa, offering such parts in the form of services); second, enabling collaboration between members of participating organisations through ad-hoc created as well as predefined business processes. SPIKE will enable collaboration and cooperation between the networked enterprises.



SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Technical University of Kosice (TUCE) consists of nine faculties with around 16 000 full-time undergraduate students. It employs 900 teachers and the same number of research and administrative staff. Technical University of Kosice is the director of ICT innovation and development in the Slovakia region. The main faculties related to the business, innovation and networked economy are the Faculty of Economics, Engineering and Informatics and BERG. Their research projects (5,6,7RP) focus on business networking, socio-economic analysis of ICT impact, e-business, trust building in the business networks, knowledge management, web technologies, logistics, eGovernment and regional development. The mission of TUKE is to provide its environment with scientific and technological knowledge basis, innovation and workforce, in order to form beneficial and sustainable future and a high quality of life. This will be achieved at TUKE by innovative research and excellent education in all scientific branches of respective University Faculties. Because of our scientific excellence we are the most successful organization in FPx projects in Slovakia, esp. in IST. TUKE is active in knowledge transfer, regional development and influencing the public life through participation in several clusters and associations, esp. IT Valley, CEIT, ALADIN, etc. or in a very close cooperation with self-governing regions, regional municipalities, ministries, the chamber of commerce and relevant regional and national stakeholders.

SK Participant Project Cost: EUR 417 920

SK Participant EC Financial Contribution: EUR 316 800

Project Outcomes planned/real: SW platform for an easy and fast setup of business alliances.

Slovak Participant's Role in Project: Research team led by Tomas Sabol at Faculty of Economics is specialised in design and development of SW solutions based on knowledge and semantic technologies. They were responsible for semantic orchestration of services (including human operated tasks), semantic modelling of processes and development of portal-based user interfaces.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 243 200

SK Participant EC Financial Contribution: EUR 182 400

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

THERAEDGE

Project ID: 216027

Project Title: An integrated platform enabling Theranostic applications at the Point of Primary Care

Project website: <http://www.theraedge.org/>

Project Start Date: 2008-03-01

Project End Date: 2012-08-29

Project Total Cost: EUR 11 783 434

Project EC Financial Contribution: EUR 8 000 000

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UNIVERSITEIT ANTWERPEN - BELGIUM

Project Description: TheraEDGE is an industry-driven effort to accelerate the adoption of theranostics applications in Primary Care by pushing Point of Care Test (POCT) technology far beyond its current state-of-the-art and by delivering clinical, analytical and operational breakthroughs. TheraEDGE is built around the high-incidence clinical case of early diagnosing lower respiratory tract infections in Primary Care.

Project Objectives: Simultaneous testing for different pathogens and their antibiotic resistance will have a huge European impact:

- better clinical outcomes and standards of care through more effective and timely diagnosis and treatment
- improved health economics through optimisation of antibiotics prescription, infection control practices and reduction of clinical visits or hospital stays
- substantial business for the In Vitro Diagnostics industry through the standardisation and commercialisation of innovative POCT products and systems

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 133 334

SK Participant EC Financial Contribution: EUR 100 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

VENIS

Project ID: 284984
Project Title: Virtual Enterprises by Networked Interoperability Services
Project website: <http://www.venis-project.eu/>
Project Start Date: 2011-09-01
Project End Date: 2014-02-28
Project Total Cost: EUR 1 832 255
Project EC Financial Contribution: EUR 1 262 991

SLOVAK PARTICIPANT 1
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SLOVAK PARTICIPANT 2
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LINK TECHNOLOGIES SA- GREECE
ITLINK SRL- ITALY
INTERSOFT A.S.- SLOVAKIA
USTAV INFORMATIKY, SLOVENSKA AKADEMIA VIED, INSTITUTE OF INFORMATICS OF SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: Enterprises interoperability is the emerging need in Europe for joint projects and business facing new marketing challenges. In multi-partner projects and business, aimed at developing innovative joint products, Large Enterprises suffer from a lack of synergy and cohesion with the Small-Medium and Micro Enterprises, due to the missing sharing of project information, knowledge, workflows, etc. A novel level of integration is expected, while guaranteeing the intellectual property rights and preserving the already existing company management processes fixed in years of past activity.

Project Objectives: The VENIS project is aimed at providing a new level of interoperability between Large and Small Enterprises, according to Virtual Enterprise paradigm:

- a distributed web-based repository will be implemented in order to connect the existing information systems;
- a set of lightweight web services will be developed for a smart exchange of the common data based on legacy email systems;
- the local business processes will be modelled and linked by a distributed business engine mechanism, in order to assist the work in joint businesses and create novel synergies in marketing competition.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: II SAS is a leading research Institute in information technology of the Slovak Academy

of Sciences with the scope of research and development in informatics, information technology, robotics, control theory and artificial intelligence and has experience in knowledge oriented technologies field, which has been evolved in the IST EU 5FP project Pellucid, deepened in the IST EU 6FP K-Wf Grid project and in IST EU 7FP projects COMMIUS, ADMIRE, SECRIком as well as in several national projects related to knowledge & semantics. The aim of the Pellucid project was the development of a flexible and adaptable platform to assist organisationally mobile employees at middle and higher levels of public sector organisations. The semantics, e-collaboration with experience management was highlighted in the K-Wf Grid project. The aim of Commius was to deliver an adaptable and customisable software prototype, providing SMEs with zero-cost entry into interoperability using the ideas behind the Interoperability Service Utility. ADMIRE advanced the state of the art on large-scale, service oriented enterprise systems by showing how an integrated approach will deliver significant new capabilities with which to address the challenges provided by the complexity of such systems. SECRIком was a collaborative research project aiming at the development of a reference security platform for EU crisis management operations and brought interconnectivity of PTT traffic between different networks. The strong technological expertise of IISAS, based on knowledge management, semantic based communication processing, autonomous cooperating agents, business/process modelling and metadata for accessing document repositories create an excellent starting point for the VENIS project.



SK Participant Project Cost: EUR 299 296

SK Participant EC Financial Contribution: EUR 215 184

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: II SAS will participate in all sub-tasks and it is responsible for tasks defined in WP3 and WP6. WP1 Requirements analysis. WP2 An assessment of information technologies. WP3 Common virtual storage. It focuses on the development, testing and deployment of shared virtual storage. The target is to provide a standard access to information which is held by large or small businesses using defined authorization mechanisms within the requirements of WP1. WP4 distributed data sharing. WP5 business processes manipulator. WP6 Prototypes and demonstration. Training of technologies developed in VENIS for the participants from companies in order to exploit the results of the developed prototypes. Verification of the application of the established system for at least one real project within the corporate project partners. WP7 Dissemination and usability. WP8 Project management.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 199 767

SK Participant EC Financial Contribution: EUR 137 388

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

**1. Specific programme
COOPERATION**

*1.4 Nanosciences,
nanotechnologies, materials and
new production Technologies*



BIOELECTRICSURFACE

Project ID: 212533
 Project Title: Electrically modified biomaterials surface
 Project website: <http://www.bioelectricsurface.eu/>
 Project Start Date: 2008-10-01
 Project End Date: 2011-09-30
 Project Total Cost: EUR 4 996 254
 Project EC Financial Contribution: EUR 3 540 643
 Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava
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 PETER BREHM - GERMANY
 COOK MEDICAL LTD. - IRELAND
 AKADEMIA MEDYCZNA WE WROCLAWIU - POLAND
 BALTON SP. Z O.O. - POLAND
 NATIONAL UNIVERSITY OF IRELAND, GALWAY - IRELAND
 UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-SLOVAKIA

Project Description: The project had set out to develop methods to manipulate surface charge on biomaterials surfaces by electrical modification.

This surface charge is critical in mediating bio/non bio interactions in vivo and therefore very important in the area of medical devices.

The project developed novel nanoscale techniques to obtain a quantitative insight into biological interactions on the biomedical device surfaces.

The research provided valuable understanding of biological interactions at the nanometre scale and this understanding was applied to develop both plaque-resistant cardiovascular and urological stents; advancing new materials for rapid-healing orthopaedic implants; and producing MRSA-resistant self-sterilising hospital gowns.

Project Objectives: Objectives of the BioElectricSurface project include the following:

- Benchmarking of electrically modified surfaces of specific biomaterials with the help of atomistic modelling and innovative nanoscale experiments,
- Benchmarking of biomaterials/biological interactions through quantitative information at the nano-, micro- and macroscopic scale,
- Electrical modification of cardiovascular stent surfaces to demonstrate restenosis prevention,
- Electrical modification of urological stent surfaces to

demonstrate encrustation prevention,

- Proliferation of osteoblastic cells on electrically modified bone scaffolds/implants to increase bone growth stimulation,
- Photosterilisation of nanoparticle-embedded fabric to make high performance reusable hospital gowns.

Profile of Slovak Participant/ -s: The Comenius University is divided into a number of Faculties. The Department of Experimental Physics of the Faculty of Mathematics, Physics and Informatics and the Department of Inorganic Chemistry, Faculty of Natural Sciences are participating in the BioElectricSurface consortium. CU has developed a number of novel technological and experimental procedures for fabrication and analysis of micro- and nanostructures for cryoelectronics and sensorics, as well as preparation and study of new dielectric, semiconducting, superconducting and composite materials have been developed. CU has a strong research track record in the field of corona discharge processes. CU is also bringing its expertise of film and coating synthesis by non-vacuum techniques to the consortium.



SK Participant Project Cost: EUR 299 840

SK Participant EC Financial Contribution: EUR 226 640

Project Outcomes planned/real:

- Benchmarking of electrically modified surfaces of hydroxyapatite (HA), titanium dioxide (TiO₂) and polyurethane (PU) with the help of atomistic modelling and innovative nanoscale experiments
- Benchmarking of biomaterials/biological interactions through quantitative information at the nano-, micro- and macroscopic scale
- Electrical modification of cardiovascular stent surfaces to demonstrate restenosis prevention
- Electrical modification of urological stent surfaces to demonstrate encrustation prevention
- Proliferation of osteoblastic cells on electrically modified bone scaffolds/implants to increase bone growth stimulation by 30%.
- Photosterilisation of nanoparticle-embedded fabric to make high performance reusable hospital gowns

Slovak Participant's Role in Project: The main task to be accomplished by CU is bringing to the BioElectricSurface Consortium the expertise in nanosynthesis, nanofabrication and nanomanipulation. CU will carry out the following tasks:

- Manipulation of EFM for surface charge creation (WP1),
- Nanodomain creation for benchmarking (WP1),
- Synthesis of nano TiO₂ for benchmarking, application development and prototyping (WP1, WP2, WP3, WP6, WP7),
- Surface charge measurement at the nanoscale (WP1).

DYNAMILL

Project ID: 314413
 Project Title: Dynamic manufacturing of thin-walled work pieces by milling process
 Project website: <http://www.dynamill.eu/>
 Project Start Date: 2012-11-01.
 Project End Date: 2015-10-31
 Project Total Cost: EUR 5 174 951
 Project EC Financial Contribution: EUR 3 074 399
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 ČESKÉ VYSOKÉ UČENÍ TECHNICKÉ V PRAZE - CZECH REPUBLIC
 HEIDELBERG POSTPRESS SLOVENSKO SPOL. S.R.O. - SLOVAKIA

Project Description: Lightweight components are gaining in importance in EU key industries with good market growth potential (aerospace, automotive, power generation, medical technology etc.). To achieve weight reductions, complex thin-walled structures are combined with high strength materials. However, the lower stiffness of work pieces leads to severe challenges during the milling process:
 - Difficulty to achieve high work piece quality, due to vibration and process forces, in industries that have very high safety and quality requirements (aviation, space etc.). Therefore, in many cases manual finishing of the work pieces is required.
 - Achievement of acceptable work piece quality only through time and resource consuming trial and error identification of process parameters that circumvent critical process states. This often results in slow and inefficient processes.
 To overcome these problems, DynaMill aims at achieving the complete control over the milling process of thin-walled work pieces. This will be realised through a threefold approach combining the development of process planning, adaptive clamping devices and improved cutting conditions. Subsequently, these three developments will be integrated in the DynaMill Technology as a platform. Throughout the project demonstration of intermediate and integrated solutions will play an important role.

Project Objectives: The strategic objective of the DynaMill project is to strengthen the European thin-walled work piece manufacturing community through realising the complete control of the milling process of thin-walled work pieces, while ensuring:

High process performance in terms of efficiency, resulting in shorter production times, lower manufacturing costs, a longer tool life and a reduced consumption of energy, coolants and other production resources
 High production flexibility, due to quicker process set-up on the basis of a process planning methodology, allowing for shorter times between different products and product generations
 High product quality with almost zero defects, due to stable and accurate machining, allowing for the elimination of finishing operations and a reduction of waste volume and the number of rejected components
 Maximum availability of machines, due to less ramp-up time and clamping operations
 Low investment requirements through retrofitting of modular technology
 Less required shop floor space, due to improved throughput and elimination of finishing operations

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 430 548

SK Participant EC Financial Contribution: EUR 221 241

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EEEMBEDDED

Project ID: 609349

Project Title: Collaborative Holistic Design Laboratory and Methodology for Energy-Efficient Embedded Buildings

Project website: <http://141.30.165.10/>

Project Start Date: 2013-10-01

Project End Date: 2017-09-30

Project Total Cost: EUR 11 099 037

Project EC Financial Contribution: EUR 7 649 997

Slovak participant Name: NEMETSCHKEK ALLPLAN SLOVENSKO S.R.O.

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SOFIK HELLAS AE - GREECE

INSTITUT FÜR ANGEWANDTE BAUINFORMATIK EV-INSTITUTE FOR APPLIED BUILDING INFORMATICS IABI - GERMANY

STRABAG AG - AUSTRIA

DATA DESIGN SYSTEM ASA - NORWAY

CENTRO DE ESTUDIOS MATERIALES Y CONTROL DE OBRAS S.A. - SPAIN

NEMETSCHKEK ALLPLAN SLOVENSKO S.R.O.- SLOVAKIA

Project Description: eeEmbedded will develop an open BIM-based holistic collaborative design and a simulation platform, a related holistic design methodology, an energy system information model and an integrated information management framework for designing energy-efficient buildings and their optimal energetic embedding in the neighbourhood of surrounding buildings and energy system.

Project Objectives: A new design control and monitoring system based on hierarchical key performance indicators will support the complex design collaboration process. Knowledge-based detailing templates will allow energy simulations already in the early design phase, and BIM-enabled interoperability grounded on a novel system ontology will provide for a seamless holistic design process with distributed experts, and a seamless integration of simulations in the virtual design office (energy performance, CO₂, CFD, control system, energy system, climate change, user behaviour, construction, facility operation), thus extending it to a real virtual design lab.

A test period of 12 project months, overlapping the first 42 development months of the project, will provide a real pre-market validation of the system in two existing embedded buildings of different types, for instance residential, office or hospital buildings. The development work will be soundly based on 2 business models – the business model of the owners and hence the equipment providers and the business

model of construction and design companies, and on a set of ISO and industry standard data structures and specifications such as IFC, STEP, CityGML and OWL.

A new ontology-based Link Model will provide the bridge between the multiple physical and mathematical models involved.

Profile of Slovak Participant/ -s: Nemetschek Allplan Slovensko (NEM) is a subsidiary fully owned by Nemetschek Allplan GmbH, which is fully owned by Nemetschek AG, providing high-quality software engineering services.

The company designs, develops, tests, and maintains several software products like BIM-CAD (Allplan), facility management (Allfa) and structural analysis applications (FriLo and SCIA).

It provides advanced software solutions in computer graphics, engineering computation, database systems, web services and applications for mobile devices, and has great experience in developing BIM-tools for the AEC industry.

NEM has profound know-how in many proprietary and standard data formats used in the construction sector for data exchange.

Since the very beginning of IAI/buildingSMART in 1996, it has been developing the IFC-interface for the BIM-CAD application Allplan.



SK Participant Project Cost: EUR 590 400

SK Participant EC Financial Contribution: EUR 442 800

Project Outcomes planned/real: Whole project:

New methodology for designing of Energy-Efficient buildings.

Taking into account surrounding environment and energy simulation in early design phases.

Implementation of Virtual design laboratory to prove feasibility and to validate new methodologies.

Slovak participant will:

Participate in implementation of Virtual design laboratory, focus on BIM server, multi-model navigation and visualization.

Slovak Participant's Role in Project: In eeEmbedded NEM will contribute to WP1 and there to the requirements and specifications of the KPIs to guide and control the design process, e.g. how KPIs can be integrated in the CAD-GUI from the architectural point of view. NEM will also participate in WP2 in the KPI design framework and the development of the template schemas and will contribute to in the final consolidated holistic KPI-based design methodology.

NEM will be also engaged in WP4 in the definition of BIM domain models, and will be the WP7 leader – the multi-model navigation and visualization.

In addition, NEM will be strongly involved in the development of collaboration and orchestration methods of the SOA platform in WP8 and their implementation and will participate in the final validation of the virtual design laboratory prototype and the holistic eeDesign methodology.

ELECTROGRAPH

Project ID: 266391

Project Title: Graphene-based Electrodes for Application in Supercapacitors

Project website: <http://www.electrograph.eu/>

Project Start Date: 2011-06-01

Project End Date: 2014-05-31

Project Total Cost: EUR 4 944 226

Project EC Financial Contribution: EUR 3 584 077

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INSTITUTE OF OCCUPATIONAL MEDICINE - UNITED KINGDOM

THE UNIVERSITY OF EXETER - UNITED KINGDOM

DANUBIA NANOTECH S.R.O.- SLOVAKIA

Project Description: For vehicle applications, it is desirable to have devices with high energy density, high power density, long cycle and shelf life, and low cost. Supercapacitors are considered one of the newest innovations in the field of electrical energy storage. In hybrid electric vehicle, super-capacitors can be coupled with fuel cells or batteries to deliver the high power needed during acceleration as well as to recover the available energy during regenerative braking. To design a super-capacitor for a specific application that requires high energy density or high power density or both, proper electrode materials and a suitable electrolyte are to be chosen. The combination of graphene and graphene-based material as electrode materials, and the use of room temperature ionic liquids (RTILs) may exhibit excellent performance in super-capacitors. Graphene based materials can be obtained by a bottom-up approach in a more controllable fashion. The enhanced capacitive behaviour of this material may be obtained by the proper alignment of graphene sheets as well as the interconnected nano-scale channels. However, these studies are still at the primary stage, and further studies are necessary. The ElectroGraph project follows a technology driven approach. It is thus obvious that the development of both electrode materials as well as the electrolyte solutions is required in order to optimize the overall performance of the super-capacitor.

The main novelty of the technical development is the

optimised production of graphene with its properties specifically defined and adjusted for application as electrode material in energy storage devices. This would be achieved through defining of processing parameters to tailor-made graphene with a specific surface area, size and corresponding electrical properties is a new consideration.

The ElectroGraph will use an integrated approach in development of both electrode materials as well as the electrolyte solutions as required for optimising the overall performance of super-capacitors.

Project Objectives:

Strategic Project Goals:

Position Europe as the scientific leader in synthesis, processing and application of graphene for industrial technology.

Demonstrate to industry the enhanced performance and cost benefits of graphene.

Contribute to creating an innovative European nanotechnology industry.

Promote uptake of nanotechnology in existing sectors.

Positioning Europe on supercapacitor/energy storage market.

Scientific and Technical Goals

Production of graphene in volumes required and with properties adjusted for novel electronic components (electrodes/supercapacitors).

To establish a feedback between material properties and design parameters.

Optimizing overall performance of supercapacitors.

To present a functional model of supercapacitor.

Assessment of hazard and exposure associated with graphene materials as well as their life cycle impact.

To identify the potential for value recovery from graphene electrodes.

Exploitation Goals

Bringing graphene from laboratory into the real application in a supercapacitor device.

Incorporation of graphene into commercially available devices.

Supercapacitor device that tops all market offerings.

Supercapacitor device that opens up markets and applications currently outside reach.

Integration in automotive components.

Integration of materials and technologies into existing manufacturing automotive processes.

Innovative components and systems for vehicle with autonomous power supply.

Integration, miniaturization and cost reduction.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 329 721.6

SK Participant EC Financial Contribution: EUR 251 563

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ERA-MIN

Project ID: 291870

Project Title: European Research Area - Network on the Industrial Handling of Raw Materials for European Industries

Project website: <http://www.era-min-eu.org/>

Project Start Date: 2011-11-01

Project End Date: 2015-10-31

Project Total Cost: EUR 1 692 771.58

Project EC Financial Contribution: EUR 1 490 000

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FORSCHUNGSZENTRUM JUELICH GMBH - GERMANY

VERKET FÖR INNOVATIONSSYSTEM - SWEDEN

HUNGARIAN OFFICE FOR MINING AND GEOLOGY - HUNGARY

NARODOWE CENTRUM BADAN I ROZWOJU - POLAND

BUNDESMINISTERIUM FUER BILDUNG UND FORSCHUNG - GERMANY

CENTRO PARA EL DESARROLLO TECNOLOGICO INDUSTRIAL. - SPAIN

FUNDACAO PARA A CIENCIA E A TECNOLOGIA - PORTUGAL

SVERIGES GEOLOGISKA UNDERSOKNING - SWEDEN

AGENCE DE L'ENVIRONNEMENT ET DE LA MAITRISE DE L'ENERGIE - FRANCE

TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY

STATNY GEOLOGICKY USTAV DIONYZA STURA - SLOVAKIA

UNITATEA EXECUTIVA PENTRU FINANTAREA INVATAMANTULUI SUPERIOR, A CERCETARII, DEZVOLTARII SI INOVARII - ROMANIA

Project Description: ERA-MIN will, for the first time, bring together a significant number of funding / programming agencies in support of the development of the European non-energy mineral raw materials research area and provide a discussion forum with other European stakeholders involved in non-energy mineral raw materials research. It will aim at building a mirror group to the ETP-SMR, and liaise with non-energy mineral raw materials relevant European Commission (EC) policies and programs as well as with the projects funded by the EC. This will clearly contribute to pool EU capacities, foster EU competitiveness in line with sustainable development ethics, and contribute to the EU security of supplies. ERA-MIN will contribute to the Raw Materials for a Modern Society Partnership Initiative as it develops, providing inputs from national and regional research programming agencies and their related expert institutions, establishing comprehensive coordination as a permanent feature of the European non-energy mineral raw materials research community (ENERC).

Project Objectives: ERA-MIN will provide systematic information on its activities to the ESFRI, the OECD Global Science Forum, and the ERC. ERA-MIN will pave the way for coordinated actions between several of its participants, as well as pan-European programs, in the domains of research, outreach, training, mobility, or evaluation procedures. Through these measures, ERA-MIN will help to mobilise the intellectual resources of the whole of Europe in the preparation of the plans for the future, needed to address the non-energy mineral resources related global challenges; and foster initiatives by which a unified Europe will be progressively able to act as an equal partner in collaborative enterprises with the USA, Japan, and developing countries. It will as well be a source of support to developing countries in line with the Action Plan decided by the African and EU in November 2010.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 33 600

SK Participant EC Financial Contribution: EUR 29 960

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EUROTAPES

Project ID: 280432

Project Title: European development of Superconducting Tapes: integrating novel materials and architectures into cost effective processes for power applications and magnets.

Project website: <http://eurotapes.eu>

Project Start Date: 2012-09-01

Project End Date: 2017-02-28

Project Total Cost: EUR 19 956 431

Project EC Financial Contribution: EUR 13 499 939

Slovak participant Name: ELEKTROTECHNICKY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Electrical Engineering, Slovak Academy of Sciences

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CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE

NEXANS FRANCE S.A.S - FRANCE - LA FARGA LACAMBRA SA - SPAIN

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE - ITALY

OXOLUTIA SL - SPAIN

ELEKTROTECHNICKY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF ELECTRICAL ENGINEERING, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: High current coated conductors (CC/s) have a great potential for developing electrical power applications and very high field magnets. The key issues for market success are low cost robust processes, high performance and a reliable manufacturing methodology of long length conductors. In recent years, EU researchers and companies have made substantial progress towards these goals, based on vacuum (PLD) and chemical deposition (CSD) methods, towards the nano-structuring of films. This provides a unique opportunity for Europe to integrate these advances in high performance conductors.

Project Objectives: The EUROTAPES project will address two broad objectives:

1/ the integration of the latest developments into simple conductor architectures for low and medium cost applications and to deliver +500m tapes. The definition of quality control tools and protocols to enhance the processing throughput and yield to achieve a pre-commercial cost target of 100 /kAm.

2/ Use of advanced methodologies to enhance performance (larger thickness and Ic, enhanced pinning for high fields, reduction of ac losses, increased mechanical strength). Demonstration of high critical currents (Ic>400A/cm-w, at 77K and self-field and Ic>1000A/cm-w at 5K and 15T) and pinning forces (Fp>100GN/m3 at 60 K).

The CSD and PLD technologies will be combined to achieve optimized tape architectures, nanostructures and processes to address a variety of HTS applications at self-field, high and ultrahigh magnetic fields. Up to month 36, 3 types of conductors will be developed (RABiT, ABAD and round wire); at Mid Term 2 will be chosen for demonstration during the final 18 months. The consortium consists of 20 partners from 8 member states 6 universities (Cambridge, UK; Antwerp, B, U.A. Barcelona, ES, TU Cluj, RO, U. Ghent, BE and TU Wien, A), 5 institutes (CSIC-ICMAB, E, ENEA, I, IEE, SK, Inst. Neel-CNRS, F, and IFW, D), 1 technological centre (LEITAT, ES) and 8 industrial companies (Bruker, D, Evico, D, Theva, D, Nexans GmbH, D, Percotech, D, Nexans SA, F, Lafarga Lacambra, ES and Oxolutia, ES).

Profile of Slovak Participant/ -s: The Institute of Electrical Engineering (IEE SAS) is a scientific institution established in 1953. Researchers of the Institute implement international projects supported by EU, projects supported by ERDF, and national projects supported by APVV and VEGA agencies.

The Institute is focused on the research and development of semiconductor, superconductor, oxide and magnetic materials and devices, including theoretical and experimental study of their structural, optical, transport properties and devices for the information technology and power engineering.

The semiconductor research is focused on future Si-based memory devices, technology and study of GaN, GaAs, and InP quantum heterostructures. These activities led to several outputs, as for example capacity sensors, advanced sensors of magnetic field, x-ray detectors and others.

The superconductor research is centred on technology and the testing of superconducting MgB2 tapes and conductors, developed for power engineering devices such as transport cables, transformers and superconducting magnets.

SK Participant Project Cost: EUR 388 000

SK Participant EC Financial Contribution: EUR 298 000

Project Outcomes planned/real: High current coated conductors (CC's) have a great potential for the developing of electrical power applications and very high field magnets. The EUROTAPES project is addressing two broad objectives: 1) The integration of the latest developments into simple conductor architectures for low and medium cost applications and delivery of +500m tapes. The definition of quality control tools and protocols to enhance the processing throughput and yield to achieve a pre-commercial cost target of 100 €/kAm; 2) Use of advanced methodologies to enhance performance (larger thickness and Ic, enhanced pinning for high fields, reduced ac losses and increased mechanical strength). The demonstration of high critical currents (Ic>400A/cm-w, at 77K and self-field and Ic>1000A/cm-w at 5K and 15T) and pinning forces (Fp>100GN/m3 at 60 K). The CSD and PLD technologies will be combined to achieve optimized tape architectures, nanostructures and processes to address a variety of HTS applications at self-field, high and ultrahigh magnetic fields. Up to month 36, 3 types of conductors will be developed (RABiT, ABAD and round wire); at Mid Term 2 will be chosen for demonstration during the final 18 months.

Slovak Participant's Role in Project: Activities of the project are carried out in the Department of Superconductor Physics. The group is responsible for the Work package 6 dedicated to the development of novel conductor architectures with low AC losses and with this being its aim, the group is coordinating the effort of partners from Cambridge University, Karlsruhe Institute of Technology, ENEA Frascati and industrial companies Bruker, Nexans, Theva. Simulation techniques particularly suitable for the modelling of electromagnetic properties of hard superconductors are modified to match the requirements of industrial design and analysis. A possibility of manufacturing a round wire from coated conductor is tested. New experimental methods suitable for detailed characterization of tapes prepared by alternative technologies are under development.

FUTURE SME

Project ID: 214657

Project Title: Future Industrial Model for SMEs

Project website: <http://www.futuresme.eu/>

Project Start Date: 2009-01-01

Project End Date: 2012-12-31

Project Total Cost: EUR 8 016 171,67

Project EC Financial Contribution: EUR 5 999 959

SLOVAK PARTICIPANT 1

Slovak participant Name: ALLIED COMMUNICATIONS, S.R.O.*FORELINTERNATIONAL SCHOOL FOREL

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SLOVAK PARTICIPANT 2

Slovak participant Name: SUISSSE EXPERTS SRO

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Partners of the Consortium:

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CHALMERS TEKNISKA HOEGSKOLA AB - SWEDEN

AKYUZ PLASTIK SANAYI VE TICARET AS - TURKEY

LEAN ENTERPRISE INSTITUTE POLSKA SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSC IA - POLAND

HOUSTON CO-PACK LTD - UNITED KINGDOM

NIMBUS SRL - ITALY

FRITERM TERMİK CIHAZLAR SANAYI VE TICARET AS - TURKEY

RSO SPA - ITALY

SIMPLY COLLABORATION LIMITED - UNITED KINGDOM

ATLANTIC SIMULATION & TRAINING TECHNOLOGIES LIMITED - ÉIRE/IRELAND

VYSOKA SKOLA BANSKA - TECHNICKA UNIVERZITA OSTRAVA - CZECH REPUBLIC

SCOTTISH ENTERPRISE - UNITED KINGDOM

LINN PRODUCTS LIMITED - UNITED KINGDOM

TSUNAMI TRAINING LIMITED - ÉIRE/IRELAND

BLACK POINT SPOLKA AKCYJNA - POLAND

GALWAY MAYO INSTITUTE OF TECHNOLOGY - ÉIRE/IRELAND

LALUI SPOL SRO - CZECH REPUBLIC

DE-KA ELEKTROTEKNIK SANAYI VE TICARET ANONIM SIRKETI - TURKEY

EIREBLOC LIMITED - ÉIRE/IRELAND

SUPPLY NETWORK SHANNON LTD - ÉIRE/IRELAND

NAM SYSTEM AS - CZECH REPUBLIC

CREA-SI SNC DI POZZATI MAURIZIO E TREVISANI MARIA - ITALY

ROCHE MANUFACTURING LTD - ÉIRE/IRELAND

INGETEAM AS - CZECH REPUBLIC

SZCZEBAK MARCIN ALEKSANDER*PERFECTACENTRUM REKLAMY - POLAND

ALLIED COMMUNICATIONS, S.R.O.*FORELINTERNATIONAL SCHOOL FOREL- SLOVAKIA

SUISSSE EXPERTS SRO- SLOVAKIA

Project Description: The project will address competitiveness issues relating to European SMEs, the lack of take up of productivity methodologies such as Lean and Six Sigma and the changing nature of the business environment in which SMEs operate. A comprehensive response will be generated which will deliver and demonstrate solutions for SMEs in relation to strategic planning, cultural and structural issues preventing adoption of best practices, modified lean and six sigma tools tailored for SME businesses, virtual manufacturing and collaboration methods, value chain enhancement methods, process modelling and simulation tools, implementation methodologies within SME organisations, design for environment support tools and workflow process development tools for SMEs.

Project Objectives: The primary concept of this project is to research, develop, validate and valorise an architecture and set of tools, methodologies and structures which will assist European companies attain a competitive position in world markets in the mid to long term horizon. The target group is SMEs and specifically those from the 50 150 employee level. Within this target group, those organisations with high growth potential will be prioritised. The primary development focus will be on operation models which reflect the High Mix Low Volume (HMLV) manufacturing environment which companies must migrate towards in order to survive and compete.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 107 628.3

SK Participant EC Financial Contribution: EUR 80 721.22

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 59 258.38

SK Participant EC Financial Contribution: EUR 47 405.45

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

HIPR

Project ID: 314522

Project Title: High-Precision micro-forming of complex 3D parts

Project website: <http://www.hipr.eu/>

Project Start Date: 2012-11-01

Project End Date: 2015-10-31

Project Total Cost: EUR 5 013 745

Project EC Financial Contribution: EUR 3 317 932

Slovak participant Name: 3R TECHNICS SLOVAKIA SRO

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Partners of the Consortium:

D'APPOLONIA SPA - ITALY
 NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK – TNO - NETHERLANDS
 FRITZ STEPPER GMBH & CO.KG - GERMANY
 FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY
 BOHLER EDELSTAHL GMBH & CO KG - AUSTRIA
 PHILIPS CONSUMER LIFESTYLE B.V. - NETHERLANDS
 HELIOTIS AG - SWITZERLAND
 MI-ME MINUTERIE METALLICHE MELES SPA - ITALY

3R TECHNICS SLOVAKIA SRO - SLOVAKIA

Project Description: Today, Europe's leading position in manufacturing of formed, high-precision 3D metal parts is being threatened by developed non-EU countries that catch up quickly on product quality at low cost. If no further action is taken, loss of jobs and GDP are at risk. To face global competition, a breakthrough is needed in tackling the following four challenges: - Continuous product trend for higher quality, smaller features, at simultaneous demand for lower cost price; - Reduced number of finishing operations and consumption of raw materials and energy; - Reduction of machine downtime; - On-line 100% quality control of 3D complex shapes. HiPr will realise this essential breakthrough. The primary goal of HiPr is to develop and integrate all necessary base technologies which create the basis to control and monitor the condition of micro-tooling for complex high-precision 3D parts. This will be achieved by developing and integrating: in-depth process and material knowledge, in-line measurements, real-time predictive maintenance.

Project Objectives: The primary goal of HiPr is to develop and integrate all necessary base technologies which create the basis to control and monitor the condition of micro-tooling for complex high-precision 3D parts. This will be achieved by developing and integrating: in-depth process and material knowledge, in-line measurements, real-time predictive maintenance. Proof will be given on pilot production lines in industrial settings. HiPr will do this with a consortium of partner's best-in-class in these fields. The methodology that will be used to come to efficient realisation is the following: Define and describe the process, measure tool performance, model based prediction of tool performance. This methodology will result in reduction of: - cost by >20%; - material and energy consumption by >30%; - development cost reduction >30%. The knowledge-based HiPr results are also applicable in different sectors, leading to low defects, despite customisation trends. HiPr will therefore help in assuring a competitive and sustainable European manufacturing industry.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 685 240

SK Participant EC Financial Contribution: EUR 460 910

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

HOLISTEEC

Project ID: 609138

Project Title: Holistic and Optimized Life-cycle Integrated Support for Energy-Efficient building design and Construction

Project website: <http://www.holisteecproject.eu>

Project Start Date: 2013-10-01

Project End Date: 2017-09-30

Project Total Cost: EUR 9 703 217.38

Project EC Financial Contribution: EUR 6 500 000

Slovak participant Name: NEMETSCHKEK ALLPLAN SLOVENSKO S.R.O.

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Partners of the Consortium:

D'APPOLONIA SPA - ITALY
 TECHNISCHE UNIVERSITAET DRESDEN - GERMANY
 NATIONAL TAIWAN UNIVERSITY OF SCIENCE AND TECHNOLOGY - TAIWAN
 FUNDACION TECNALIA RESEARCH & INNOVATION - SPAIN
 S.T.I. ENGINEERING SRL - ITALY
 PICH-AGUILERA ARQUITECTOS S.L.P - SPAIN
 G.E.M. TEAM SOLUTIONS GDBR - GERMANY
 SENAATTI-KIINTEISTOT - SUOMI/FINLAND
 COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE
 CENTRE SCIENTIFIQUE ET TECHNIQUE DU BATIMENT - FRANCE
 ACCIONA INFRAESTRUCTURAS S.A. - SPAIN
 TEKNOLOGIAN TUTKIMUSKESKUS VTT - SUOMI/FINLAND
 KONINKLIJKE BAM GROEP NV - NETHERLANDS
 CYPE SOFT SL - SPAIN
 INSTITUT FUR ANGEWANDTE BAUINFORMATIK EV-INSTITUTE FOR APPLIED BUILDING INFORMATICS IABI - GERMANY
 GEOMOD SARL - FRANCE
 GDF SUEZ - FRANCE
 BERGAMO TECNOLOGIE SP200 – POLAND
 NEMETSCHKEK ALLPLAN SLOVENSKO S.R.O. - SLOVAKIA

Project Description: Despite recent evolutions of tools/practices in the Architecture Engineering, Construction and Facility Management have already resulted in considerable advances; some limitations remain, related to the complexity and variability of building life cycles, addressing building end user awareness and participation, lack of new business models, life cycle fragmentation, and limited interoperability of the ICT supports.

Project Objectives: The main objective of HOLISTEEC is thus to design, develop, and demonstrate a BIM-based, on-the-cloud, collaborative building design software platform, featuring advanced design support for multi-criteria building optimization. This platform will account for all physical phenomena at the building-level, while also taking into account external, neighbourhood-level influences. The design of this platform will rely on actual, field feedback and related business models / processes, while enabling building design and construction practitioners to take their practices one step forward, for enhanced flexibility, effectiveness, and competitiveness.

HOLISTEEC main assets are: 1) an innovative feedback / loop design workflow; 2) a multi-physical, multi-scale simulation engine; 3) A unified data model for Building and Neighbourhood Digital Modelling; 4) a full-fledged open software infrastructure for building design tools interoperability leveraging available standards; 5) innovative and flexible user interfaces.

HOLISTEEC is expected to have a direct impact on the macro level of the construction sector as a whole, through the following aspects: improved overall process efficiency, improved stakeholders collaboration and conflict resolution, lifecycle cost reduction, the reduction of errors and reworks. These impacts will be quantitatively evaluated during the demonstration and validation phase of the project, where the proposed design methodology and tools will be extensively applied to four real construction projects, in parallel to standard design approaches.

Profile of Slovak Participant/ -s: Nemetschek Allplan Slovensko (NEM) is a subsidiary fully owned by Nemetschek Allplan GmbH, which is fully owned by Nemetschek AG, providing high-quality software engineering services.

The company designs, develops, tests, and maintains several software products like BIM-CAD (Allplan), facility management (Allfa) and structural analysis applications (FriLo and SCIA).

It provides advanced software solutions in computer graphics, engineering computation, database systems, web services and applications for mobile devices, and has great experience in developing BIM-tools for the AEC industry.



NEM has a profound know-how in many proprietary and standard data formats used in the construction sector for data exchange.

Since the very beginning of IAI /buildingSMART in 1996, it has been developing the IFC-interface for the BIM-CAD application Allplan.

SK Participant Project Cost: EUR 9 703 217.38

SK Participant EC Financial Contribution: EUR 6 500 000

Project Outcomes planned/real:

Whole project:

Holistic and optimized life-cycle integrated support for Energy-Efficient building, design and construction.

BIM based software platform supporting holistic and optimized Energy-Efficient building, design and construction.

Slovak participant:

BIM framework definition and implementation, definition of the methodology and validation, dissemination and exploitation.

Slovak Participant's Role in Project: Deep involvement in WP3 on BIM framework definition and implementation, supporting the definition of the methodology and of the business model, involvement in the validation of the tools, strong support to dissemination and exploitation.

I²MINE

Project ID: 280855

Project Title: Innovative Technologies and Concepts for the Intelligent Deep Mine of the Future

Project website: <http://www.i2mine.eu>

Project Start Date: 2011-11-01

Project End Date: 2015-10-31

Project Total Cost: EUR 25 414 022

Project EC Financial Contribution: EUR 15 999 203

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice

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Partners of the Consortium:

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RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN - GERMANY

ABB AB - SWEDEN

KGHM CUPRUM SP ZOO CENTRUM BADAWCZO-ROZWOJOWE - POLAND

MINERAL INDUSTRY RESEARCH ORGANISATION - UNITED KINGDOM

SANDVIK MINING AND CONSTRUCTION GMBH - AUSTRIA

GLOWNY INSTYTUT GORNICTWA - POLAND

LULEA TEKNISKA UNIVERSITET - SWEDEN

FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY

K+S AKTIENGESELLSCHAFT - GERMANY

BOLIDEN MINERAL AB - SWEDEN

DMT GMBH & CO. KG - GERMANY

BASF CONSTRUCTION CHEMICALS EUROPE AG - SWITZERLAND

COMMODASULTRASORT GMBH - GERMANY

AGNICO-EAGLE FINLAND OY - SUOMI/FINLAND

KOMPANIA WEGLOWA SA - POLAND

INSTITUT NATIONAL DE L ENVIRONNEMENT ET DES RISQUES INERIS - FRANCE

AALTO-KORKEAKOULUSAATIO - SUOMI/FINLAND

EUROGEOSURVEYS - EGS - BELGIUM

GEODATA ZIVILTECHNIKERGESELLSCHAFT MBH - AUSTRIA

CATERPILLAR GLOBAL MINING EUROPE GMBH - GERMANY

VSH HAGERBACH TEST GALLERY LTD - SWITZERLAND

TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE- SLOVAKIA

Project Description: I²Mine marks the start of a series of development activities aimed at realising the concept of an invisible, zero impact, deep mine. The extractive sector, still seen as being old fashioned and environmentally unfriendly, will join forces to revise this image by showing that mineral extraction and processing can be done in a highly innovative and sustainable manner with a low impact under the ground and a zero impact above the ground. The concept of I²Mine is to develop innovative methods, technologies, machines and equipment necessary for the efficient exploitation of minerals and disposal of waste, both of which will be carried out under the ground. This will dramatically reduce the volume of surface transportation of minerals and waste, minimising above the ground installations and reducing the environmental impact.



Project Objectives: I²Mine will focus on the entire cycle of mining with the following objectives:

- Concepts for innovative mining methods for deep deposits (steep and flat), leading to improved resource efficiency through higher extraction rates (20% and more), a higher selectivity of extraction (10 to 20%) together with a 20% higher deposit utilisation as well as increased productivity and decreased production costs by 20%.

- Tailor-made concepts for the underground, near-to-face processing to reduce the mass flow to the surface by 15 – 25 %.

- High resolution 3D exploration methods for deep deposits.

- New concepts for mine management to reduce operational expenditure and new methods for predicting, monitoring and controlling subsidence.

- New methods to handle waste rock underground and backfill products with similar characteristics to the original rock;

- Health and safety design criteria and guidelines for the new concepts and technologies developed.

- Concepts for clean, safe and comfortable climate conditions in the underground workings.

- New concepts and technologies for deep mine rescue.

- On-line best practice database for all environmental aspects associated with deep mining projects (water management, waste management, emissions, subsidence, etc.).

Profile of Slovak Participant/ -s: VRP was created by amending F BERG Organizational order by resolution AS F No. 11/2004 as a separate department of the Institute of management production processes under the original name of Development and realisation laboratory of raw material extraction and treatment, based on the conclusion of Agreements on the establishment of a joint laboratory between F BERG TUKE and SLOVMAG, a.s. Lubeník dated on 17 March 2004. As a separate department, VRP was included in the FBERG Organizational regulations and FBERG organizational structure under Dean's Academic Senate Resolution FBERG22/2011 with effect from 1.1.2012. The legal status of the VRP is in terms of § 16 of the Faculty BERG Organizational regulations defined as separate workplace of BERG Faculty of Technical University of Kosice, which provides research and development and realization activities under the faculty projects and also projects accounting for faculty collaboration with industry practice. From the perspective of business practice, VRP forms, respectively is a part of their research departments. VRP is a self-employed and economically self-sufficient workplace. Research and development innovation (RDI) activities, infrastructure building and the service of VRP is paid only from obtained extra-budgetary sources. Sources of funding are research projects, EU projects, and minor economic activity of department, projects solved for industry, contractor contributions, donations and other extra-budgetary resources. VRP participates in 58 projects including international projects, structural projects, APVV projects, projects of the Ministry of Education, Science, Research and Sport of the Slovak Republic, projects of the Ministry of Economy of the Slovak Republic and projects for technological practice.

SK Participant Project Cost: EUR 25 414 022

SK Participant EC Financial Contribution: EUR 15 999 203

Project Outcomes planned/real: The project – program I²Mine is currently the largest of the R&D projects funded by the EU. The main coordinator of the project is a major Swedish mining company LKAB and the main project manager is an English company MIRO – Mineral Industry Research Organisation. The project aims to implement innovative technologies and concepts for the European future of an intelligent deep mine for 2011 - 2015. The target is realized by a series of research and development activities performed in order to realize the concept of the invisible mine (mine invisible) with a zero impact on the environment. Members of the I²Mine Program / project are the most prominent businesses, associations and university departments of mining sector respectively sector of raw materials extraction and treatment. This most significant grouping of researchers from among the leading European companies and institutions is considered a key player in the implementation of the priority areas of intervention mining industry by the European Union in the development of the Europe 2020 agenda. Project team members are 23 major European mining companies. VRP Department is the third most important partner as the scope of work and budget concerns. Directly involved work in three key activities: WP1 – Mine-wide information and management systems, logistics management and information flow (mass flow management), WP2 – New methods of underground mining and processing and WP5 – Applications, demonstration, validation. The current status is: Work Package 1/deliverables D1.4 is nearly completed, WP2/D2.3 in progress and WP5 / Demonstration in SMZ Jelšava, a.s. is being prepared.

Slovak Participant's Role in Project: In Work Package 1(WP1) -Mine wide information and control systems, logistic and mass flow management VRP is Task leader, within WP2- Novel mining and underground processing methods VRP is partner and in WP5-Application, Demonstration, Validation VRP is Task leader. TUKE / VRP has organized one Milestones meeting for WP1 and for WP2 in Košice and SMZ Jelšava, a.s. and one Management Committee Meeting in Košice.



INCOMERA

Project ID: 618103
Project Title: Innovation and Commercialisation in the NMP thematic area
Project website: <http://spw.wallonie.be/>
Project Start Date: 2014-01-15
Project End Date: 2018-01-14
Project Total Cost: EUR 1 711 827.47
Project EC Financial Contribution: EUR 1 500 000

SLOVAK PARTICIPANT 1

Slovak participant Name: Ministry of Education, Science, Research and Sport of the Slovak Republic

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SLOVAK PARTICIPANT 2

Slovak participant Name: Slovak Academy of Sciences

Slovak participant address: Štefánikova 49, 814 39 Bratislava

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SLOVAK PARTICIPANT 3

Slovak participant Name: Slovak Technical University

Slovak participant address: Vazovova 5, 812 43 Bratislava

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Partners of the Consortium:

SERVICE PUBLIC DE WALLONIE - BELGIUM
AGENCIA DE INNOVACION Y DESARROLLO DE ANDALUCIA - SPAIN
UNITATEA EXECUTIVA PENTRU FINANTAREA INVATAMANTULUI SUPERIOR, A CERCETARII, DEZVOLTARII SI INOVARII - ROMANIA
KARLSRUHER INSTITUT FUER TECHNOLOGIE - GERMANY
AGENTSCHAP VOOR INNOVATIE DOOR WETENSCHAP EN TECHNOLOGIE - BELGIUM
REGIONE PIEMONTE. - ITALY
SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA) - SLOVAKIA
MINISTERSTVO SKOLSTVA SLOVENSKEJ REPUBLIKY, MINISTRY OF EDUCATION, SCIENCE,
RESEARCH AND SPORT OF THE SLOVAK REPUBLIC- SLOVAKIA
SLOVENSKA AKADEMIA VIED, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA
FUNDACAO PARA A CIENCIA E A TECNOLOGIA - PORTUGAL
REGION ALSACE - FRANCE
SVILUPPO TOSCANA SPA - ITALY
INSTITUTO VALENCIANO DE LA COMPETITIVIDAD EMPRESARIAL - SPAIN
NEMZETI INNOVACIOS HIVATAL - HUNGARY
NYSKOPUNARMIDSTOD ISLANDS - ISLAND
REGION OF WESTERN GREECE - GREECE
RÉGION NORD-PAS DE CALAIS - FRANCE
ATHENA RESEARCH AND INNOVATION CENTER IN INFORMATION COMMUNICATION & KNOWLEDGE TECHNOLOGIES - GREECE
CONSELLERIA DE ECONOMIA E INDUSTRIA. XUNTA DE GALICIA - SPAIN
MATIMOP, ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT - ISRAEL
VENETO INNOVAZIONE SPA - ITALY

Project Description: Towards Europe 2020, European Commission adopted a comprehensive innovation strategy to enhance Europe's capacity to deliver smart, sustainable and inclusive growth. This strategy concerns the so called concept of Smart Specialization Strategy. By itself, sounds a challenging task, but it is of crucial importance, especially for less advanced regions. According to this concept, each region must set its own innovation priorities and streamline public funds in those technological fields, where certain advantages and thus exploitation prospects exist.

Project Objectives: This is the challenge INCOMERA partners decided to take up by answering those three objectives:
1. To detect and financially support NMP research results likely to provide solutions for innovative products, processes or services,
2. To analyse and assess the lessons from the measures taken and supported in various Member States to exploit transform research results,
3. To provide operational guidance for supporting efficiently the successive steps between research and innovation, paying particular attention to the use of European Regional Development Funds (ERDF), in the context of Smart Specialization Strategies.
INCOMERA is composed of 22 extremely experienced partners (including the associated partner), 13 countries and 11 regions, planning to:
- Develop all synergy required for supporting SME's transnational/regional cooperation, within the context of each region's smart specialization strategy for enhancing the commercialization/productivity plans of NMP consortia,
- Launch an Online Platform for innovation providing tailored made services to NMP research projects that reached TRL4,
- Launch three joint calls for proposals to fund innovative industrial research projects close to the market.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 22 800

SK Participant EC Financial Contribution: 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 22 800

SK Participant EC Financial Contribution: EUR 20 330

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 3

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 22 800

SK Participant EC Financial Contribution: EUR 20 330

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

INTEG-RISK

Project ID: 213345
Project Title: Early Recognition, Monitoring and Integrated Management of Emerging, New Technology Related Risks
Project website: <http://www.integrisk.eu-vri.eu/>
Project Start Date: 2008-12-01
Project End Date: 2013-05-31
Project Total Cost: EUR 19 081 868.64
Project EC Financial Contribution: EUR 13 629 109
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DET NORSKE VERITAS AS, NORWAY / ELECTRICITE DE FRANCE S.A. - FRANCE
D'APPOLONIA SPA - ITALY
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AGENZIA REGIONALE PROTEZIONE CIVILE-EMILIA ROMAGNA - ITALY

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DEFINIENS AG - GERMANY
RIJKSINSTITUUT VOOR VOLKSGEZONDHEIDEN MILIEU - NETHERLANDS
SCHWEIZERISCHES INSTITUT ZUR FORDERUNG DER SICHERHEIT - SWITZERLAND
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UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA - ITALY
TECNOLOGICA GROUP - EUROPEAN TECHNICAL JOINT VENTURE CVBA - BELGIUM
POYRY FINLAND OY - FINLAND
ATOS SPAIN SA - SPAIN
TUV SUD INDUSTRIE SERVICE GMBH - GERMANY
JRC - JOINT RESEARCH CENTRE - EUROPEAN COMMISSION - BELGIUM
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STEINBEIS ADVANCED RISK TECHNOLOGIES GMBH - GERMANY
SWISSI AG - SWITZERLAND
TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE- SLOVAKIA

Project Description: iNTeg-Risk coordinates research and development sub-projects related to new materials and technologies for establishing a common EU approach to face the challenge of emerging risks within the next 15 years. The main goal of iNTeg-Risk - Project is to establish a holistic approach for facing the challenge of emerging risks, due to new materials and technologies, within the next 15 years.

Project Objectives: The iNTeg-Risk solution is based on the analysis of 17 individual applications of new technologies, the so-called iNTeg-Risk ERRAs - Emerging Risk Representative Applications in EU Industry, involving e.g. nanotechnologies, H2 technologies, underground storage of CO2, new materials. The solutions from these single applications have been generalized and have been used for the definition of the iNTeg-Risk framework.



The solution is being made available to the users in the form of the iNTeg-Risk “one-stop shop”. The solution includes issues of early recognition and monitoring of emerging risks, communication, governance, pre-standardization, education & training, dissemination, as well as new tools such as Safetypedia, Atlas of Emerging Risks, Reference Library, etc.

Profile of Slovak Participant/ -s: Faculty of Mechanical Engineering was established on 8 July 1952 as one of first faculties of The Slovak Technical University. Nowadays it is the most developed faculty at Technical University of Kosice.

Faculty of Mechanical Engineering has several departments. These Departments are autonomous units with the function of education, research, development and other activities, which are application-oriented.

Department of Safety and Quality of Production was being formed under the Department of Transport Equipment and Logistics for ten years and was eventually established on 1 September 2001. The Department is part of the Institute of Safety, Quality and Environmental Science.

Department activities:

- Quality and Safety Management System implementation according to ISO 9001 and OHSAS 18001, SQAS, Maintenance Management.

- Skills in Risk assessment area from occupation health and safety view and also assessment of Major industrial hazard (ATEX, SEVESO, Pipeline Integrity Management application, Road Tunnel risks),

- Maintenance Management – implementation (RCM, RBI, TPM), New engine construction.

- Education - the Department has two accredited study branches: Quality production, Health and Safety at workplace.

SK Participant Project Cost: EUR 86 900.8

SK Participant EC Financial Contribution: EUR 59 525

Project Outcomes planned/real: iNTeg-Risk is a large-scale integrating project aimed at improving the management of emerging risks, related to “new technologies” in European industry. This is achieved by building a new management paradigm for emerging risks as a set of principles supported by a common language, agreed tools & methods, and Key Performance Indicators, all integrated into a single framework. The project aim is to reduce time-to-market for the lead market EU technologies and promote safety, security, an environmentally friendly approach and social responsibility as a trademark of the EU technologies. The project improves early recognition and monitoring of emerging risks, seek to reduce accidents caused by them (estimated 75 B€/year EU27) and decrease reaction times if major accidents involving emerging risks happen. **OUTCOMES:** SP1: TECHNOLOGY CASES: Identifying specific emerging risks and developing solutions to enter into the unifying framework, concept of ERRAs - Emerging Risk Representative industrial Applications

SP2: CREATING AN INTEGRATED SCIENTIFIC & TECHNOLOGY FRAMEWORK (Emerging Risk Management Framework, ERMF): iNTeg-Risk New Paradigm, Methods & Tools for dealing with emerging Risks

SP3: APPLICATION, VERIFICATION & VALIDATION: European Network of Industrial Systems and Facilities for exploration of Emerging Risks (ENISFER); verifying the SP2 results and validating the whole method

SP4: DISSEMINATION ONE-STOP-SHOP: iNTeg-Risk integrated EU solutions addressing emerging risks, gathered in a “one-stop-shop”

SP5: MAKING IT HAPPEN & ASSURING SUSTAINABILITY; MANAGING A LARGE COLLABORATIVE PROJECT: Managing iNTeg-Risk and creating its IT and post-project infrastructure

MANAGING A LARGE COLLABORATIVE PROJECT: Managing iNTeg-Risk and creating its IT and post-project infrastructure

Slovak Participant’s Role in Project: TUKE participated in 5 different tasks:

T1.5.1 D1: Definition of KPIs emerging risks for selected industry case studies, including CSR aspects of emerging risks

T2.3.1 - Gap analysis to identify missing models and methods within the iNTeg-Risk Framework

T2.4.1 - Development of KPIs for Technology

T2.6.4 - Guidance Topic D: Policies

T3.1.7 - Case studies of Integrated Risk Management
- Demonstrative report: Validation examples of implementation of the Guideline of Integrated Risk Management Framework in several SMEs.

IRON-SEA

Project ID: 283141

Project Title: Establishing the basic science and technology for Iron-based superconducting electronics applications

Project website: <http://www.ironsea.eu/>

Project Start Date: 2011-10-01

Project End Date: 2014-09-30

Project Total Cost: EUR 2 169 814

Project EC Financial Contribution: EUR 1 665 611

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University

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UNIVERSITEIT TWENTE - NETHERLANDS

CONSIGLIO NAZIONALE DELLE RICERCHE - ITALY

FRIEDRICH-SCHILLER-UNIVERSITAET JENA - GERMANY

POLITECNICO DI TORINO – ITALY

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-SLOVAKIA

Project Description: Recent investigations of iron-based superconductors have revealed many similarities to MgB₂ and the cuprates, for instance, a multiband nature, high upper critical fields and a short coherence length. Now, due to the immediate interest in a new class of materials, the exploration of potential electronics applications such as Josephson devices and SQUIDs will take place. In this project, we will address the feasibility of electronics applications by establishing the fundamentals of the iron-based superconductors.

Examining the Josephson Effect and SQUIDs, the so-called phase-sensitive experiment, paves the way to understanding fundamental properties such as the order parameters of symmetry and energy gap, which is one of the main objectives of this project. Investigations by various spectroscopy experiments and transport properties are also conducted within the project. Such fundamental studies may find unique physical properties, which lead to the exploring of new kinds of devices and applications. Since the iron-based superconductors are multi-band natures, comparative studies to MgB₂ are also carried out. The obtained results are interpreted based on modelling and theory, which will also lead to the design of better junctions.

We will investigate various kinds of the iron-based superconducting films, involving K-doped SrFe₂As₂ (Sr-122), Co-doped BaFe₂As₂ (Ba-122), Te containing FeSe (11), F-doped NdFeAsO (Nd-1111), LaFeAsO (La-1111) and MgB₂. To date, the in-situ growth of both K-doped Sr-122 and F-doped Nd-1111 have been prepared by molecular beam epitaxy, MBE, only in this consortium. High quality, Co-doped Ba-122 and Te containing 11 epitaxial films by pulsed laser deposition are also usable for this project, since the deposition condition for both films have been almost optimized by the individual groups within this consortium.

Project Objectives: The discovery of high-temperature superconductivity in iron-based oxides and intermetallics triggered world-wide research activities to investigate the fundamental properties of these extraordinary materials. Up to now, most of the research has been carried out on either bulk single crystals or polycrystalline materials due to the difficulties in synthesising epitaxial thin films. Nevertheless recent investigations of this new class of superconductors have revealed many similarities to MgB₂ and the cuprates, for instance, layered structures, a multiband nature, high upper critical fields and a short coherence length. On the other hand, there are important differences such as the quite isotropic behaviour in contrast to the cuprates and the peculiar pairing symmetry. There is a strong support in favour of an unusual superconducting state in which the order parameter has opposite signs in different bands (s± wave symmetry).

Whenever new superconducting materials are discovered, it becomes immediately interesting to explore their potential applications such as large scale power applications involving motors, transformers and superconducting magnets using wires, device applications based on the Josephson Effect such as Superconducting Quantum Interface Devices (SQUIDs) and Single Flux Quantum (SFQ) devices. However, not all of these possibilities may be realistic for all materials. For instance, iron-based compounds may not be suited for large scale applications, like the cuprates and MgB₂, since most of them contain As which is highly toxic and could not be handled easily in large amounts. An additional reason is that the transport current in these compounds is reduced significantly across the grain boundaries due to the short coherence length, requiring biaxially textured films for higher current. This is the same drawback that delays practical power applications of the cuprates.

Recent success in epitaxially grown iron-based superconducting films achieved by the consortium members as well as the partner of the coordinated Japanese project members opens the way to electronics applications as well as a variety of experiments carried out to broaden our understanding of the intrinsic properties. In this collaborative project, we will focus on establishing the fundamentals of the iron-based superconductors for electronics applications and address their feasibility.

Profile of Slovak Participant/ -s: The Comenius University (CU) is the largest and oldest university in Slovakia with about 28 000 students. CU is divided into 13 faculties. Department of Experimental Physics is a part of the Faculty of Mathematics, Physics and Informatics. The CU team has developed a number of novel technological and experimental procedures for fabrication and analysis of micro- and nanostructures for cryoelectronics and sensorics, as well as for the preparation and study of new dielectric, semiconducting, superconducting and composite materials. The CU team will participate in the consortium with 4 key members, 6 scientists and 5 PhD. students.

SK Participant Project Cost: EUR 256 000

SK Participant EC Financial Contribution: EUR 195 000

Project Outcomes planned/real: Recent investigations on iron-based superconductors have revealed a lot of similarities to MgB2 and the cuprates, for instance, a multiband nature, high upper critical fields and a short coherence length. Due to the recent immediate interest in a new class of materials, potential electronics applications such as Josephson devices and SQUIDs will be explored. In this project, we will address the feasibility of electronics applications by establishing the fundamentals of the iron-based superconductors.

Examining the Josephson Effect and SQUIDs, the so-called phase-sensitive experiment, also paves the way to the understanding of fundamental properties such as order parameters symmetry and energy gap, which is one of the main objectives in this project. Investigations by point contact spectroscopy, infrared spectroscopy and transport properties are also conducted within the same work frame. Such fundamental studies may find unique physical properties, which lead to exploring new kinds of devices and applications. Since the iron-based superconductors are multi-band natures, comparative studies to MgB2 are also carried out. The obtained results' interpretation is based on modelling and theory, which will also lead to designing better junctions. We will investigate various kinds of the iron-based superconducting films, involving K-doped SrFe2As2 (Sr-122), Co-doped BaFe2As2 (Ba-122), Te containing FeSe (11), F-doped NdFeAsO (Nd-1111) and LaFeAsO (La-1111). So far, the in-situ growth of both K-doped Sr-122 and F-doped Nd-1111 have been prepared by molecular beam epitaxy, MBE, by this consortium only. High quality, Co-doped Ba-122 and Te containing 11 epitaxial films by pulsed laser deposition are usable for this project.

Slovak Participant's Role in Project: Main tasks:

- CU will contribute to the IRON-SEA Consortium its expertise in technology of thin film preparation, characterization of their properties, fabrication and measurements of the superconducting devices as well as theoretical modelling of unconventional superconductors.

- CU will carry out the following tasks:

- Preparation of MgB2 thin films by magnetron sputtering (WP2),
- Characterization of MgB2 and Iron-based superconducting thin films (XRD, EDX, WDS, AFM, SSRS, electrical transport properties) (WP3),
- Preparation and measurement of the tunnel junctions and SQUIDs based on MgB2 and Iron-based superconducting thin films (WP4 and WP5),
- Theoretical models of unconventional superconductors (WP6).

LIAA

Project ID: 608604

Project Title: Lean Intelligent Assembly Automation

Project website: <http://www.project-leanautomation.eu/>

Project Start Date: 2013-09-02

Project End Date: 2017-09-01

Project Total Cost: EUR 10 665 874

Project EC Financial Contribution: EUR 7 950 000

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VISUAL COMPONENTS OY - SUOMI/FINLAND
UNIVERSITY OF PATRAS - GREECE
FUNDACION TECNALIA RESEARCH & INNOVATION - SPAIN
INSYSTEMS AUTOMATION GMBH - GERMANY
ADAM OPEL AG - GERMANY
TELNET REDES INTELIGENTES SA - SPAIN
EON DEVELOPMENT AB - SWEDEN
TEKNOLOGISK INSTITUT - DENMARK
UNIVERSAL ROBOTS AS - DENMARK
DRESDEN ELEKTRONIK INGENIEURTECHNIK GMBH - GERMANY
LP-MONTAGETECHNIK GMBH - GERMANY
FISCHER IMF GMBH & CO KG - GERMANY
PENNY AB - SWEDEN
SPINEA S.R.O. - SLOVAKIA

Project Description: LIAA aims to keep assembly jobs in Europe by creating and implementing a framework that enables humans and robots to truly work together in assembly tasks. Co-working allows the senses and intelligence of the human to be complemented by the strength and endurance of the automation and so obtains the best from each of them, reducing repetitive injuries and costs and enhancing job satisfaction and the average length of time that a worker can continue in the same job. The LIAA framework will be developed not from theory, but instead from the extensive experience partners have gained through many previous projects. It will not be a thought experiment, but applied to create solutions to five real use cases from five different areas of industrial assembly. In this way the framework will be forced not only to be useable and functional but also general enough to be broadly applicable. A LIAA work station can be used either by human or robot alone or by both together, and the instructions for tasks will be written for both, by formalising a modular skill hierarchy and creating both human and machine instruction sets for each skill. People will be able to keep track of what the automation is doing and is about to do via an augmented reality (AR) display. The robot will keep track of what the human is doing and is about to do via a dedicated camera-based system and some intelligent prediction algorithms. To date, safety regulations only cover very limited types of human-robot interaction in industry. The inclusion of Denmark's Notified Body as a partner in LIAA ensures that

not only will all our solutions be properly risk assessed for actual use in industry but also that our experiences will feed back to those responsible for drafting new EU robot co-worker safety regulations.

The direct final outcome of LIAA will be five working co-worker solutions to diverse industrial assembly use cases and a strong unifying framework providing a basis for future co-worker solutions.

Project Objectives: LIAA aims at the development of low-cost, low-complexity robot systems. Low-cost robot systems are enabled by the availability of low-cost robots for about 20.000 € (e.g. Universal Robot UR5, Rethink Robotics Baxter), low cost sensor systems for about 200 € (e.g. Kinect-like sensors), by tool sharing between human and robot and by integrating the human in the loop (symbiotic assembly). The human in the loop will eliminate complex and costly application-specific robot tools and fixtures otherwise required by the robot system to cope with the types of unstructured environments that are easy for humans.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 401 160

SK Participant EC Financial Contribution: EUR 234 360

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MANUNET II

Project ID: 266549

Project Title: Supporting SMEs towards a new phase to European Research Area on new processes, adaptive manufacturing systems and the factory of the future

Project website: <http://www.manUNET.net>

Project Start Date: 2011-04-01

Project End Date: 2015-03-31

Project Total Cost: EUR 1 756 249

Project EC Financial Contribution: EUR 1 499 470

SLOVAK PARTICIPANT 1

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SLOVAK PARTICIPANT 2

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

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EUSKO JAURLARITZA-GOBIERNO VASCO. - SPAIN

SERVICE PUBLIC DE WALLONIE - BELGIUM

AGENCIA DE SUPORT A L EMPRESA CATALANA- SPAIN

COMUNIDAD FORAL DE NAVARRA - GOBIERNO DE NAVARRA - SPAIN

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

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TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY

THE ICELANDIC CENTRE FOR RESEARCH - ICELAND

UNITATEA EXECUTIVA PENTRU FINANTAREA INVATAMANTULUI SUPERIOR, A CERCETARII, DEZVOLTARII SI INOVARII - ROMANIA

KARLSRUHER INSTITUT FUER TECHNOLOGIE - GERMANY

FINPIEMONTE S.P.A - ITALY

MINISTRSTVO ZA VISOKO SOLSTVO, ZNANOST IN TEHNOLOGIJO - SLOVENIA

FUNDACAO PARA A CIENCIA E A TECNOLOGIA - PORTUGAL

MATIMOP, ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT - ISRAEL

SVILUPPO TOSCANA SPA - ITALY

NIEDEROESTERREICH - AUSTRIA

REGION OF WESTERN GREECE - GREECE

Project Description: The aim of MANUNET II is not only to (a) launch a 4 year cooperation (b) among regions and countries around Europe with (c) fruitful calls in the field of Manufacturing, but also to ensure that (d) MANUNET II suits perfectly in ERA and, finally, (e) to propose a sustainable cooperation structure for a very long term frame. In order to enhance this impact, the extension that will cover MANUNET II is going to be longer than MANUNET CA, having included more countries.

Project Objectives: The specific objectives of MANUNET II are to:

- constitute a Consortium with a longer extension around Europe.
- improve cooperation and coordination among MANUNET II and national and regional programmes.
- improve cooperation and coordination among MANUNET II and the other initiatives at European level, such as the NMP calls, 'The Factory of the Future' and the other manufacturing related ERA-NETs (MATERA, MNT-ERA.Net II), in this last case opening the path for manufacturing activities integration.
- propose effective solutions for an integrated and sustainable European manufacturing programme based on national and regional funds and able to effectively complement the other continental RTD support tools.
- carry out 4 new calls for proposals with a high cooperation among regions/countries, more funding by countries/regions, higher R&D investment mobilized, appropriate dates and effective dissemination.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 44 859.82

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 78 504.67

SK Participant EC Financial Contribution: EUR 70 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MATRANS

Project ID: 228869

Project Title: Micro and Nanocrystalline Functionally Graded Materials for Transport Applications

Project website: <http://kmmvin.eu/node/134>

Project Start Date: 2010-02-01

Project End Date: 2013-01-31

Project Total Cost: EUR 4 918 660

Project EC Financial Contribution: EUR 3 600 000

Slovak participant NAME: USTAV MATERIALOV A MECHANIKY STROJOV SLOVENSKEJ AKADEMIE VIED, Institute of Materials & Machine Mechanics Slovak Academy of Sciences

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FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY

CARDIFF UNIVERSITY - UNITED KINGDOM

NATIONAL TECHNICAL UNIVERSITY OF ATHENS - GREECE

POLITECHNIKA WROCLAWSKA - POLAND

EADS DEUTSCHLAND GMBH - GERMANY

STEINBEIS ADVANCED RISK TECHNOLOGIES GMBH - GERMANY

TECHNISCHE UNIVERSITAET KAISERSLAUTERN - GERMANY

USTAV MATERIALOV A MECHANIKY STROJOV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF MATERIALS & MACHINE MECHANICS SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: MATRANS aims at the development of novel metal-ceramic functionally graded materials (FGMs) for aerospace and automotive applications. The project addresses the joint design of the FGM and the structural component it is intended for. Economic and ecological aspects of processing are included. Risks aspects of material non-performance will be tackled, too. MATRANS has mobilized a critical mass of interdisciplinary expertise and highly specialized equipment.

Project Objectives: MATRANS aims at the development of novel metal-ceramic functionally graded materials (FGMs) for aerospace and automotive applications in: 1) exhaust and propulsion systems, 2) power transmission systems, and 3) braking systems, with the main objective to enhance the mechanical properties of these materials through spatial variations of material composition and microstructure.

Specifically, MATRANS deals with two groups of bulk FGMs: 1) ceramics-copper/copper alloys, 2) ceramics-intermetallics. These FGM systems have not yet been used in the targeted transport sectors.

Profile of Slovak Participant/ -s: The Institute of Materials & Machine Mechanics Slovak Academy of Sciences (IMSAS). The Institute is oriented towards basic and applied research of the development and characterization of advanced materials such as metal matrix composites (MMC), intermetallics and metallic foams. The development of materials is supported by research facilities for the evaluation of structure and the determination of almost all basic materials properties. The Institute has gained much experience in design and development of unique processing technologies and it supplies many institutes and companies all over the world with testing samples and prototypes. The standard manufacturing routes include directional solidification, diffusion bonding, pressure infiltration, cold and hot isostatic compaction, hot extrusion, electrolytic, CVD and PVD deposition of coatings on reinforcing constituents, plasma spraying of metallic and ceramic powders, foaming of metals. IMSAS possesses the unique experience in synthesis of various alloys, compounds and nanostructured materials with the aid of various advanced technologies.

SK Participant Project Cost: EUR 193 600

SK Participant EC Financial Contribution: EUR 146 360

Project Outcomes planned/real: The project aimed at the development of novel metal-ceramic functionally graded materials for aerospace and automotive applications in exhaust and propulsion systems, power transmission systems and braking systems with the main objective to enhance the mechanical properties of these materials through spatial variations of material composition and microstructure. The method for infiltration of ceramic discs was successfully developed. These composites created to function as brake discs have passed series of tribological tests, exhibiting better performance than the currently used grey iron brake discs. The developed technology can be used for the infiltration of Al₂O₃ skeletons with homogeneous as well as gradient structures or preforms composed from ceramic segments that very efficiently hinder the crack propagation in composite structures. Reactive infiltration has been successfully applied for the preparation of a new family of valves based on Ni-Al intermetallic alloys. These valves are aimed for combustion car engines. Proposed technique resulted into weight savings of 16.5 % when compared to the currently used valves. As-received valves successfully passed fatigue tests in requested temperature ranges up to 800°C.

Slovak Participant's Role in Project: The role of The Institute of Materials & Machine Mechanics Slovak Academy of Sciences in the project was to develop demonstrator valves according to proprietary design of FGM composite based on intermetallic Ni-Al alloy reinforced by ceramic Al₂O₃ particles. The most modern procedures of powder metallurgy and pressure infiltration were applied. Prepared valves exhibited a considerable weight reduction. The technological procedure has been developed to a high level and series of real engine valves were produced. Prepared valves were successfully tested in real engine tests. Advanced brake discs based on Al₂O₃ ceramics infiltrated with molten copper were developed as well. Tribological tests confirmed their improved performance when compared with the current grey iron brake discs.

M-ERA.NET

Project ID: 291826
Project Title: From materials science and engineering to innovation for Europe
Project website: <http://www.m-era.net/>
Project Start Date: 2012-02-01
Project End Date: 2016-01-31
Project Total Cost: EUR 3 448 544.93
Project EC Financial Contribution: EUR 3 000 000
Slovak participant Name: SLOVENSKA AKADEMIA VIED, Slovak Academy of Sciences
Slovak participant address: Štefánikova 49, 814 39 Bratislava
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Partners of the Consortium:

OESTERREICHISCHE FORSCHUNGSFOERDERUNGSGESELLSCHAFT MBH – AUSTRIA
FORSCHUNGSZENTRUM JUELICH GMBH – GERMANY
AGENCIA DE INNOVACION Y DESARROLLO DE ANDALUCIA – SPAIN
NEDERLANDSE ORGANISATIE VOOR WETENSCHAPPELIJK ONDERZOEK – NETHERLANDS
THE ICELANDIC CENTRE FOR RESEARCH – ICELAND
BUNDESMINISTERIUM FUER BILDUNG UND FORSCHUNG – GERMANY
DEUTSCHE FORSCHUNGSGEMEINSCHAFT – GERMANY
UNITATEA EXECUTIVA PENTRU FINANTAREA INVATAMANTULUI SUPERIOR, A CERCETARII, DEZVOLTARII SI INOVARII – ROMANIA
KARLSRUHER INSTITUT FUER TECHNOLOGIE – GERMANY
AGENTSCHAP VOOR INNOVATIE DOOR WETENSCHAP EN TECHNOLOGIE - BELGIUM
SERVICE PUBLIC DE WALLONIE - BELGIUM
RESEARCH PROMOTION FOUNDATION - CYPRUS
FONDS VOOR WETENSCHAPPELIJK ONDERZOEK - BELGIUM
LATVIJAS ZINATNU AKADEMIJA – LATVIA
MINISTRSTVO ZA VISOKO SOLSTVO, ZNANOST IN TEHNOLOGIJO – SLOVENIA
FUNDACAO PARA A CIENCIA E A TECNOLOGIA – PORTUGAL
MATIMOP, ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT – ISRAEL
TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU – TURKEY
LIETUVOS MOKSLO TARYBA – LITHUANIA
AGENCIA VASCA DE LA INNOVACION-BERRIKUNTZAREN EUSKAL AGENTZIA – SPAIN
CONSEIL REGIONAL MIDI-PYRENEES – FRANCE
AGENCE NATIONALE DE LA RECHERCHE – FRANCE
SIHTASUTUS EESTI TEADUSAGENTUUR - ESTONIA
MINISTERO DELL'ISTRUZIONE, DELL'UNIVERSITA' E DELLA RICERCA – ITALY
THE TECHNOLOGY STRATEGY BOARD - UNITED KINGDOM
TEKES-TEKNOLOGIAN JA INNOVAATIOIDEN KEHITTAEMISKESKUS - SUOMI/FINLAND
NORGES FORSKNINGSRAD – NORWAY
ORSZAGOS TUDOMANYOS KUTATASI ALAPPROGRAMOK IRODA – HUNGARY
REGIONE PIEMONTE. – ITALY
VERKET FÖR INNOVATIONSSYSTEM – SWEDEN
BUNDESMINISTERIUM FUER VERKEHR, INNOVATION UND TECHNOLOGIE – AUSTRIA
FONDS ZUR FÖRDERUNG DER WISSENSCHAFTLICHEN FORSCHUNG – AUSTRIA
FUNDACION PARA EL CONOCIMIENTO MADRIMASD – SPAIN
SLOVENSKA AKADEMIA VIED, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA
NARODOWE CENTRUM BADAN I ROZWOJU – POLAND
FONDS NATIONAL DE LA RECHERCHE - LUXEMBOURG (GRAND-DUCHÉ)
INSTITUTO DE DESARROLLO ECONOMICO DEL PRINCIPADO DE ASTURIAS - SPAIN

Project Description: M-ERA.NET will be a real tool for developing a strong European RTD community on materials science and engineering and for supporting the European economy with respect to the challenges of the 21st century. M-ERA.NET will be a highly ambitious network involving a majority of European key players in national funding of materials science and engineering. M-ERA.NET will replace a number of smaller previous ERA-NETs and cover the materials domain with an innovative and flexible umbrella concept for one single ERA-NET contract. M-ERA.NET will set up a multi-annual policy for joint programming targeted at the whole innovation cycle. Cooperation at an international level will enable the European RTD community to access world leading knowledge.

Project Objectives:

- Strengthen the status of the European RTD community and economy in materials sciences and engineering;
- Mobilise critical mass of national and regional funding for transnational RTD cooperation in materials science and engineering, thereby achieving a very large leverage effect of the requested FP7 funding;
- Set up a novel umbrella concept for cooperation to react to emerging needs and to allow coverage of future topics in related thematic areas;
- Establish strategic programming of joint activities, addressing societal and technological challenges in an interdisciplinary approach;
- Support the exploitation of created knowledge along the whole innovation chain;
- Enable enlarged research cooperation within the EU member states and associated states;
- Establish international cooperation with partners outside Europe;
- Exploit the novel developments in a durable, long term cooperation between funding organisations.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 31 668

SK Participant EC Financial Contribution: EUR 28 237.3

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MINERALS4EU

Project ID: 608921
Project Title: Minerals Intelligence Network for Europe
Project website: <http://www.minerals4eu.eu>
Project Start Date: 2013-09-01
Project End Date: 2015-08-31
Project Total Cost: EUR 2 772 289
Project EC Financial Contribution: EUR 1 999 000
Slovak participant Name: STATNY GEOLOGICKY USTAV DIONYZA STURA, State Geological Institute of Dionýz Štúr
Slovak participant address: MLYNSKÁ DOLINA 1, 817 04 BRATISLAVA
Contact person email/ phone: Mgr. Stanislav Šoltés, PhD., 02/59375310, stanislav.soltes@geology.sk

Partners of the Consortium:

GEOLOGIAN TUTKIMUSKESKUS - SUOMI/FINLAND
NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK – TNO - NETHERLANDS
NATURAL ENVIRONMENT RESEARCH COUNCIL - UNITED KINGDOM
BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES - FRANCE
GEOLOGICAL SURVEY OF NORWAY - NORWAY
SELOR EEIG - NETHERLANDS
MINISTRY OF AGRICULTURE, NATURAL RESOURCES AND ENVIRONMENT OF CYPRUS - CYPRUS
INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE - KONINKLIJK BELGISCH INSTITUUT VOOR NATUURWETENSCHAPPEN KONINKLIJK BELGISCH INSTITUUT VOOR NATUURWETENSCHAPPEN - BELGIUM
MAGYAR FOLDTANI ES GEOFIKAI INTEZET - HUNGARY
HRVATSKI GEOLOSKI INSTITUT - CROATIA
DEPARTMENT OF COMMUNICATIONS, ENERGY AND NATURAL RESOURCES - ÉIRE/ IRELAND
CESKA GEOLOGICKA SLUZBA - CZECH REPUBLIC
RAW MATERIALS GROUP RMG AB - SWEDEN
INSTITUTUL GEOLOGIC AL ROMANIEI - ROMANIA
BUNDESANSTALT FUER GEOWISSENSCHAFTEN UND ROHSTOFFE - GERMANY
EIDGENOSSISCHES DEPARTEMENT FÜR VERTEIDIGUNG, BEVOLKERUNGSSCHUTZ UND SPORT - SCHWITZERLAND
STATE GEOLOGICAL AND SUBSURFACE SURVEY OF UKRAINE - UKRAINE
INSTITUTO GEOLÓGICO Y MINERO DE ESPAÑA - SPAIN
ETHNIKO KENTRO VIOSIMIS KAI AEIFOROU ANAPTYXIS - GREECE

FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY
SVERIGES GEOLOGISKA UNDERSOKNING - SWEDEN
LABORATORIO NACIONAL DE ENERGIA E GEOLOGIA I.P. - PORTUGAL
GEOLOSKI ZAVOD SLOVENIJE - SLOVENIA
THE GEOLOGICAL SURVEY OF DENMARK AND GREENLAND - DENMARK
GEOLOGISCHE BUNDESANSTALT - AUSTRIA
JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM
PER SHERBIMIN GJEOLGIK SHQIPTAR - ALBANIA
PANSTWOWY INSTYTUT GEOLOGICZNY - PANSTWOWY INSTYTUT BADAWCZY - POLAND
EUROGEOSURVEYS – EGS - BELGIUM
WUPPERTAL INSTITUT FÜR KLIMA, UMWELT, ENERGIE GMBH. - GERMANY
ISTITUTO SUPERIORE PER LA PROTEZIONE E LA RICERCA AMBIENTALE – ITALY
STATNY GEOLOGICKY USTAV DIONYZA STURA, STATE GEOLOGICAL INSTITUTE OF DIONÝZ ŠTÚR- SLOVAKIA

Project Description: The Minerals4EU project is designed to meet the recommendations of the Raw Materials Initiative and will develop an EU Mineral intelligence network structure delivering a web portal, a European Minerals Yearbook and foresight studies. The network will provide data, information and knowledge on mineral resources around Europe, based on an accepted business model, making a fundamental contribution to the European Innovation Partnership on Raw Materials (EIP RM), seen by the Competitiveness Council as key for the successful implementation of the major EU2020 policies. The Minerals4EU project will firstly establish the EU minerals intelligence network structure, comprising European minerals data providers and stakeholders, and transform this into a sustainable operational service. Minerals4EU will therefore contribute to and support the decision making on the policy and adaptation strategies of the Commission, as well as supporting the security of EU resource and raw materials supply, by developing a network structure with mineral information data and products, based on authoritative of information sources. The Minerals4EU project is built around an INSPIRE compatible infrastructure that enables EU geological surveys and other partners to share mineral information and knowledge, and stakeholders to find, view and acquire standardized and harmonized georesource and related data.



Project Objectives: The target of the Minerals4EU project is to integrate the best available mineral expertise and information based on the knowledge base of member geological surveys and other relevant stakeholders, in support of public policy-making, industry, society, communication and education purposes at European and international levels. The Minerals4EU consortium possesses the skills and resources to make this the leading European mineral information network structure that will provide tools and expertise to enhance resource efficiency, minerals supply security and support sustainable mineral development for Europe.

Profile of Slovak Participant/ -s: The State Geological Institute of Dionýz Štúr performs the tasks of the State Geological Survey of the Slovak Republic. The SGIDŠ activity is focused on the solutions of the geological research and exploration projects, creation and application of the information system in geology, registration, collection, evidence and making accessible the results of geological works carried out at the territory of the Slovak Republic. SGIDŠ provides independent expertise, lecturing, consulting and advisory activity and compiles the input documents for the state administration. The State Geological Institute of Dionýz Štúr is a state contributory organization supervised by the Ministry of Environment of the Slovak Republic. The Institute was established in 1940. The SGIDS headquarters are located in Bratislava, while its regional centres are located in Spišská Nová Ves, Banská Bystrica and Košice.

The State Geological Institute of Dionýz Štúr is a member of the international organization of geological surveys EuroGeoSurveys and GeoHealth.

SK Participant Project Cost: EUR 24 600

SK Participant EC Financial Contribution: EUR 21 935

Project Outcomes planned/real: The Minerals4EU project is designed to meet the recommendations of the Raw Materials Initiative and will develop an EU Mineral intelligence network structure delivering a web portal, a European Minerals Yearbook and foresight studies. The network will provide data, knowledge and information on mineral resources around Europe, based on an accepted business model, making a fundamental contribution to the European Innovation Partnership on Raw Materials (EIP RM), seen by the Competitiveness Council as key for the successful implementation of the major EU2020 policies. The Minerals4EU project will firstly establish the EU minerals intelligence network structure, comprising European minerals data providers and stakeholders, and transform this into a sustainable operational service. Minerals4EU will therefore contribute to and support the decision making on the policy and adaptation strategies of the Commission, as well as supporting the security of EU resource and raw materials supply, by developing a network structure with mineral information data and products, based on authoritative information sources. The Minerals4EU project is built around an INSPIRE compatible infrastructure that enables EU geological surveys and other partners to share mineral information and knowledge, and stakeholders to find, view and acquire standardized and harmonized georesource and related data. The target of the Minerals4EU project is to integrate the best available mineral expertise and information based on the knowledge base of the member geological surveys and other relevant stakeholders, in support of public policy-making, industry, society, communication and education purposes at European and international levels. The Minerals4EU consortium possesses the skills and resources to make this the leading European mineral information network structure that will provide tools and expertise to enhance resource efficiency, minerals supply security and support sustainable mineral development for Europe.

Slovak Participant's Role in Project: Role in Project: partner in the project, and will contribute to the work in WP 4 (Mineral statistics), WP2 (network structure) and WP3. SGIDS will provide mineral statistics and analyses for Slovakia's mineral, mining, trade and recycling data. According to 14 years of experience in issuing Slovak Minerals Yearbook, SGIDS also provides personal capabilities for the preparation of the European Minerals Yearbook.

MNT-ERA.NET II

Project ID: 234989

Project Title: Micro and Nano Technologies for a new highly competitive European industry

Project website: <http://www.mnt-era.net/>

Project Start Date: 2009-03-01

Project End Date: 2011-12-31

Project Total Cost: EUR 1 624 494.82

Project EC Financial Contribution: EUR 1 333 000

Slovak participant Name: Slovak Academy of Sciences

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Partners of the Consortium: OSTERREICHISCHE FORSCHUNGSFORDERUNGSGESELLSCHAFT - ÖSTERREICH
VDI/VDE INNOVATION + TECHNIK GMBH - DEUTSCHLAND
CESKÁ SPOLEČNOST PRO NOVE MATERIÁLY A TECHNOLOGIE - ČESKÁ REPUBLIKA
NORDISK INNOVATIONSCENTER - NORGE
KARLSRUHER INSTITUT FUER TECHNOLOGIE - DEUTSCHLAND
EUSKO JAURLARITZA-GOBIERNO VASCO. - ESPAÑA
TEKES-TEKNOLOGIAN JA INNOVAATIOIDEN KEHITTAEMISKESKUS - SUOMI/FINLAND
NARODOWE CENTRUM BADAN I ROZWOJU - POLSKA
AGENCIA VASCA DE LA INNOVACION-BERRIKUNTZAREN EUSKAL AGENTZIA - ESPAÑA
FUNDAÇÃO PARA A CIENCIA E A TECNOLOGIA - PORTUGAL
SERVICE PUBLIC DE WALLONIE - BELGIQUE-BELGIË
MINISTRSTVO ZA VISOKO SOLSTVO, ZNANOST IN TEHNOLOGIJO - SLOVENIJA
RESEARCH PROMOTION FOUNDATION - KYPROS/KIBRIS
CONSEIL REGIONAL MIDI-PYRENEES - FRANCE
VERKET FÖR INNOVATIONSSYSTEM - SVERIGE
TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY
NEMZETI INNOVACIOS HIVATAL - MAGYARORSZAG
OSEO SA - FRANCE
UNITATEA EXECUTIVA PENTRU FINANTAREA INVATAMANTULUI SUPERIOR, A CERCETARII, DEZVOLTARII SI INOVARII - ROMANIA
FEDERAL OFFICE FOR PROFESSIONAL EDUCATION AND TECHNOLOGY - SCHWEIZ/ SUISSE/SVIZZERA

Project Description: MNT-ERA.NET II improves the coordination between funding programmes, research organisations and industries and secure durable cooperation between key actors from national and regional funding systems. It will promote the convergence of MNT programmes, the streamlining of procedures, and the efficient use of resources, thereby reducing the fragmentation of European funding instruments. The value of programmes for end-users increases due to a close interaction with European industry, exploiting strategy papers and roadmaps (such as the MINAM SRA).

Project Objectives: MNT-ERA.NET II aims at the best possible integration of regional and national strategies with European needs and visions by setting up a joint RTD programme, ensuring complementarities with other funding instruments. This will help to reduce cross-European programme duplication and to overcome barriers to entry, enabling the rapid dissemination of research results and exploiting the scientific, technological and innovative impact of public investment in RTD. This will be of particular value for regions and countries that are catching up in terms of research investment and performance. Innovative joint calls, operated in a variable geometry approach, will be widely promoted among the target groups, especially high-tech SMEs. They will reflect the needs identified by the European R&D community, thus opening an attractive and efficient tool for transnational RTD. MNT-ERA.NET II will therefore stimulate the increased and more rapid uptake of new micro- and nano-technologies within Member states industry. It will support the broad implementation of decisive knowledge for high added-value products, processes and applications and provide strategic and practical contributions to enhancing the competitiveness of the European industry. MNT-ERA.NET II will prepare an ERA NET PLUS to achieve maximum impact of joint programming by mobilising substantial funding from member states and the EC.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 37 560

SK Participant EC Financial Contribution: EUR 33 491

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MORGAN

Project ID: 214610
Project Title: Materials for Robust Gallium Nitride
Project website: <http://www.morganproject.eu/>
Project Start Date: 2008-11-01
Project End Date: 2011-10-31
Project Total Cost: EUR 13 862 596.42
Project EC Financial Contribution: EUR 9 200 000

SLOVAK PARTICIPANT 1

Slovak participant Name: ELEKTROTECHNICKÝ ÚSTAV SLOVENSKEJ AKADEMIE VIED, Institute of Electrical Engineering, Slovak Academy of Sciences

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SLOVAK PARTICIPANT 2

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

Slovak participant address: VAZOVOVA 5, 81243 BRATISLAVA

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Partners of the Consortium:

III V LAB GIE - FRANCE
ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE - SWITZERLAND
GWENT ELECTRONIC MATERIALS LIMITED - UNITED KINGDOM
ELEMENT SIX LIMITED - UNITED KINGDOM
VIVID COMPONENTS LTD - UNITED KINGDOM
UNIVERSITE JOSEPH FOURIER GRENOBLE 1 - FRANCE
AIXTRON SE - GERMANY
UNIVERSITAET ULM - GERMANY
MICROGAN GMBH - GERMANY
FCUBIC AB - SWEDEN
SWEREA IVF AB - SWEDEN
TECHNISCHE UNIVERSITAET WIEN - AUSTRIA
IMPACT COATINGS AB - SWEDEN
RESEARCH CENTRE FOR NATURAL SCIENCES, HUNGARIAN ACADEMY OF SCIENCES - HUNGARY
UNIVERSITY OF BATH - UNITED KINGDOM
THALES SA - FRANCE
GOOCH & HOUSEGO (TORQUAY) LIMITED - UNITED KINGDOM
INSTYTUT TECHNOLOGII ELEKTRONWEJ - POLAND
CESKE VYSOKE UCENI TECHNICE V PRAZE - CZECH REPUBLIC
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE
FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE
UNIVERSITY OF GLASGOW - UNITED KINGDOM
ELEKTROTECHNICKÝ ÚSTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF ELECTRICAL ENGINEERING, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA
SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: MORGAN is an project which address the need for new materials for electronic devices and sensors that operate in extreme conditions, especially high temperatures and high electric fields. It will take advantage of the excellent physical properties of diamond and gallium nitride (GaN) based heterostructures. The association of these two materials will give rise to the best materials and devices for ultimate performance in extreme environments.

Project Objectives:

- Develop GaN sensors & RF transistors for harsh environments;
- Combine the properties of GaN and diamond. MORGAN will develop several promising solutions:
- Novel diamond substrates and passivation
- New growth techniques
- Associated packaging and interconnect development.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 325 701.2

SK Participant EC Financial Contribution: EUR 213 461

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 336 738.13

SK Participant EC Financial Contribution: EUR 240 636

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

NAD

Project ID: 212043
Project Title: NANOPARTICLES FOR THERAPY AND DIAGNOSIS OF ALZHEIMER DISEASE
Project website: <http://www.nadproject.eu/>
Project Start Date: 2008-09-01
Project End Date: 2013-08-31
Project Total Cost: EUR 14 365 090

Project EC Financial Contribution: EUR 10 921 350

Slovak participant Name: CHEMICKÝ ÚSTAV, SLOVAK ACADEMY OF SCIENCES, Institute of Chemistry, Slovak Academy of Sciences

Slovak participant address: DUBRAVSKA CESTA 9, 845 38 BRATISLAVA

Contact person email/ phone: Dr. Igor Tvaroška, chemitsa@savba.sk, +421 2 54772080

Partners of the Consortium:

UNIVERSITY OF MILANO-BICOCCA - ITALY
UNIVERSITY OF PARIS-SUD XI - FRANCE
KAROLINSKA INSTITUTET - SWEDEN
ACADEMIC MEDICAL CENTER AT THE UNIVERSITY OF AMSTERDAM - NETHERLANDS
BIOTALENTUM LTD. - HUNGARY
UNIVERSITY OF TURKU - FINLAND
NANOVECTOR SRL. - ITALY
UNIVERSITY OF PATRAS - GREECE
UNIVERSITY OF ANTWERP - BELGIUM
UNIVERSIDAD DEL PAÍS VASCO - SPAIN
LANCASTER UNIVERSITY - UNITED KINGDOM
MARIO NEGRI INSTITUTE FOR PHARMACOLOGICAL RESEARCH - ITALY
STAB VIDA, LDA. - PORTUGAL
UNIVERSITÉ PIERRE ET MARIE CURIE - FRANCE
GUERBET SA. - FRANCE
BIAL INDUSTRIAL FARMACÉUTICA S.A. - SPAIN
UNIVERSITY OF COPENHAGEN - DENMARK
INSTITUTO DE SALUD CIII - SPAIN
CHEMICKÝ ÚSTAV, SLOVAK ACADEMY OF SCIENCES, INSTITUTE OF CHEMISTRY, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The NAD (Nanoparticles for therapy and diagnosis of Alzheimer's disease) Project is aiming to develop nanoparticles for Alzheimer's diagnosis and therapy. Recent statistics indicate that 24.3 million people worldwide are affected by dementia with 4.6 million new cases per year (one new case every 7 seconds). In Europe there are 5 million cases of dementia, 3 million of which are classified as Alzheimer's. Given the continuing increase in life expectancy, these numbers are expected to rise dramatically. In 2040 cases are expected to double in Western Europe and to triple in Eastern Europe. Despite great progress in the scientific field, which has made interpretation of the molecular bases of the disease possible, there has been little progress in diagnosis and therapy.

Project Objectives: The goal of the study, developed in the field of nanotechnologies, is to create nanoparticles (NPs) able to cross the blood-brain barrier to reach the brain, principal site of Alzheimer's disease. Molecules that can recognize (diagnosis) and destroy (therapy) the amyloid deposits, characteristic of the illness, will be attached to the nanoparticles, and tested on animal models of the disease (transgenic mice). If the expectations of the research are attained, future experiments can be performed on humans. The results can have an enormous impact on the early diagnosis and therapy of a disease of high incidence, which takes a heavy social cost.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 251 872

SK Participant EC Financial Contribution: EUR 189 904

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

NANOIMPACTNET

Project ID: 218539

Project Title: European Network on the Health and Environmental Impact of Nanomaterials

Project website: <http://www.nanoimpactnet.eu/>

Project Start Date: 2008-04-01

Project End Date: 2012-03-31

Project Total Cost: EUR 3 222 073.4

Project EC Financial Contribution: EUR 1 999 960

Slovak participant Name: SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, Slovak Medical University

Slovak participant address: LIMBOVA 12, 833 03 BRATISLAVA

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Partners of the Consortium:

INSTITUT UNIVERSITAIRE ROMAND DE SANTE AU TRAVAIL - SWITZERLAND

DANMARKS TEKNISKE UNIVERSITET - DENMARK

UNIVERSITY OF SURREY - UNITED KINGDOM

HERIOT-WATT UNIVERSITY - UNITED KINGDOM

UNIVERSITY OF PLYMOUTH - UNITED KINGDOM

TYOETERVEYSLAITOS - SUOMI/FINLAND

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE

INSTITUTE OF OCCUPATIONAL MEDICINE - UNITED KINGDOM

JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM

EIDGENOESSISCHE MATERIALPRUEFUNGS- UND FORSCHUNGSANSTALT - SWITZERLAND

NORSK INSTITUTT FOR LUFTFORSKNING - NORWAY

DEUTSCHE GESETZLICHE UNFALLVERSICHERUNG - GERMANY

UNIVERSITAET BERN - SWITZERLAND

HEALTH AND SAFETY EXECUTIVE - UNITED KINGDOM

INSTITUT FUR ENERGIE UND UMWELTECHNIK EV - IUTA - GERMANY

EDINBURGH NAPIER UNIVERSITY - UNITED KINGDOM

UNIVERSITE DE FRIBOURG - SWITZERLAND

NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS" - GREECE

UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN - ÉIRE/ IRELAND

STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK - NETHERLANDS

RIJKSINSTITUUT VOOR VOLKSGEZONDHEID EN MILIEU - NEDERLAND

KØBENHAVNS UNIVERSITET - DENMARK

HOSPICES CANTONNAUX CHUV - SWITZERLAND

DUBLIN INSTITUTE OF TECHNOLOGY - ÉIRE/IRELAND

ST MARY'S UNIVERSITY COLLEGE TWICKENHAM - UNITED KINGDOM

SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, Slovak Medical University- SLOVAKIA

Project Description: Recent technological advances allow the targeted production of objects and materials in the nanoscale (smaller than 100 nm). Nanomaterials have chemical, physical and bioactive characteristics, which are different from those of larger entities of the same materials. Nanoparticles can pass through body barriers. This is interesting for medical applications, but it raises concerns about their health and environmental impact.



Project Objectives: The objective of the NanoImpactNet is to create a scientific basis to ensure the safe and responsible development of engineered nanoparticles and nanotechnology-based materials and products, and to support the definition of regulatory measures and implementation of legislation in Europe. It includes a strong two-way communication to ensure efficient dissemination of information to stakeholders and the European Commission, while at the same time obtaining input from the stakeholders about their needs and concerns. The work plan shows six work packages (WPs: Human hazards and exposures, Hazards and fate of nanomaterials in the environment, Impact assessment, Communication, Integration and nomenclature, and Coordination and management). The work plan will be implemented over four years. Discussions about strategies and methodologies will be initiated through well-prepared workshops covering the WP topics. External researchers and stakeholders will be invited to participate. After these workshops, the researchers will collaborate to produce thorough reports and sets of guidelines reflecting the consensus reached. All of the leading European research groups with activities in nanosafety, nanorisk assessment, and nanotoxicology are represented in NanoImpactNet. All exposure routes, major disease classes and impact assessment approaches are represented within the network. It will coordinate activities within Europe. It will help implement the EU Actionplan for Nanotechnology and support a responsible and safe development of nanotechnologies in Europe.

Profile of Slovak Participant/ -s: SMU is the only institution in Slovakia entirely focused on medical research, carrying out experimental and clinical research and has extensive experience in environmental health research. SMU has participated in numerous EU projects within the 5th and 6th Framework Programmes as well as PHARE and NIH projects. The Institution is an EU Centre of Excellence in Environmental Health Research (HEAR NAS). The CoE is creating multidisciplinary research groups for projects aimed at reducing the negative impact of environmental factors (including mineral fibres and particles) on health and is the centre for education and training of young researchers in the area of environmental health. The scientific team participated in FP5 project FIBRETOX focused on the toxic effects of mineral dust. The team is involved in several FP6 projects such as COMICS, NewGeneris, INTARESE, HEIMTSA, HENVINET and has a high level of expertise in environmental health, biomonitoring, environmental and occupational epidemiology, in vitro and in vivo toxicology.

SK Participant Project Cost: EUR 50 856

SK Participant EC Financial Contribution: EUR 45 346.6

Project Outcomes planned/real: The objective of the NanoImpactNet co-ordination action was to create a widely supported scientific basis to ensure the safe and responsible development of engineered nanoparticles and nanotechnology-based materials and products, and to support the definition of regulatory measures and implementation of legislation in Europe. This framework included a strong two-way communication, which ensured efficient dissemination of information to the various stakeholder groups (notably the European Commission, industry and SMEs, and the general public) while at the same time obtaining input from these groups about their needs and questions.

Slovak Participant's Role in Project: SMU contributed to WP3 (Impact assessment) where it was responsible for organising Workshops for young scientists and it will contribute to WP3 with its expertise in fibres and ultrafine particles toxicity, risk assessment and in impact of particles on human health.



NANOSCI-EPLUS

Project ID: 219433

Project Title: Transnational call for collaborative proposals in basic nanoscience research

Project website: <http://www.cnrs.fr/>

Project Start Date: 2008-01-01

Project End Date: 2012-12-31

Project Total Cost: EUR 19 576 716

Project EC Financial Contribution: EUR 6 316 233

Slovak participant Name: SLOVENSKA AKADEMIA VIED, Slovak Academy of Sciences

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DEUTSCHE FORSCHUNGSGEMEINSCHAFT - GERMANY

SCIENCE FOUNDATION IRELAND SFI - ÉIRE/IRELAND

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FUNDACION PARA EL CONOCIMIENTO MADRIMASD - SPAIN

MINISTERIO DE CIENCIA E INNOVACION - SPAIN

NARODOWE CENTRUM BADAN I ROZWOJU - POLAND

AGENCE NATIONALE DE LA RECHERCHE - FRANCE

Project Description: In the first phase of the proposed project, the call itself will be implemented, following modalities similar to those used for the first call run by NanoSci-ERA in 2006, while procedures will be amended in order to cope with identified weaknesses. The call will be based on a two-stage submission / evaluation procedure. The funding scheme will rely on a real (although partial) common pot to which a majority of countries will contribute. Mutualizing part of the budget permits to avoid trade-offs where the selection of projects would be determined by the availability of funds, in a manner detrimental to the objective of supporting the highest quality research.

The second phase of the project will deal with the management of the call budget, the follow-up activities and the monitoring of the call impacts. Because of the direct involvement of national agencies, NanoSci-E+ should contribute to blur further the distinction between national and European programmes. It is expected to encourage researchers to think European since their agencies give them the opportunity to finance indifferently national or transnational projects. The class of projects that can possibly fit within the scope of the planned call is clearly transverse to many disciplines of nanoscience and therefore accessible for the researchers of all the participating countries. In the same time, the topic is ambitious enough and resolutely forward-looking to make necessary a circulation of ideas, competencies and talents as well as a dialogue between different scientific approaches (inter-disciplinarity).

Project Objectives: NanoSci-E+ aims at launching, managing and carrying out the follow-up of a transnational call for collaborative projects in the field of basic nanoscience research, with a thematic focus on the interfacing of functional nano-objects .

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 4 440

SK Participant EC Financial Contribution: EUR 3 958

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

NANOTHER

Project ID: 213631

Project Title: Integration of Novel Nanoparticle based Technology for Therapeutics and Diagnosis of different types of Cancer

Project website: <http://www.nanother.eu>

Project Start Date: 2008-09-01

Project End Date: 2012-08-31

Project Total Cost: EUR 11 556 307.55

Project EC Financial Contribution: EUR 8 408 483

Slovak participant Name: HAMELN RDS A.S.

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TEL AVIV UNIVERSITY - ISRAEL

FEYECON DEVELOPMENT & IMPLEMENTATION BV - NETHERLANDS

COLOROBIA ITALIA SPA - ITALY

PHARMAMAR, S.A.U. - SPAIN

CENTRO DE INVESTIGACION COOPERATIVA EN BIOCIENCIAS - SPAIN

ASOCIACION CENTRO DE TECNOLOGIAS DE INTERACCION VISUAL Y COMUNICACIONES-VICOMTECH - SPAIN

INSTITUT POLYTECHNIQUE DE BORDEAUX - FRANCE

ALMA CONSULTING GROUP SAS - FRANCE

DOMINION PHARMAKINE S.L. - SPAIN

JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM

AHAVA DEAD SEA LABORATORIES LTD - ISRAEL

TECHNOLOGICAL EDUCATIONAL INSTITUTION OF ATHENS - GREECE

NUOVOPROBE LTD - UNITED KINGDOM

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ACONDICIONAMIENTO TARRASENSE ASSOCIACION - SPAIN

UNIVERSITE VICTOR SEGALEN BORDEAUX II - FRANCE

HAMELN RDS A.S.- SLOVAKIA

Project Description: The World Health Organisation estimates that over 11 million new cases of cancer are diagnosed and more than seven million people die of cancer worldwide each year. The recorded incidence of cancer is set to increase rapidly, as new screening techniques accelerate the rate of diagnosis and the population ages. In addition to its impact on individual patients, cancer imposes a great economic burden upon society.

The main challenge for pharmaceutical biotechnology nowadays is to direct a drug or therapeutic agent specifically to a target molecule, enzyme, cell or tissue. Cancer is one of the most extensive and life-threatening pathologies in Europe, only surpassed by circulatory diseases so it is the perfect candidate pathology for the development of new drugs and new tools for therapy and diagnosis. There are many therapeutic agents that show activity in vitro, but when introduced in the human body they do not have the same effect due to the limitation of reaching specifically the target location, resulting in very high dosages given to patients to overcome this problem, leading to the problems of side effects.



Project Objectives: Nanother intersects biomedical, health and nano industries, and R&D sits at the interface of chemical, biological and physical sciences and engineering. The main Nanother objective is therefore based on the integration of 5 key elements of current technology:

- Nanoparticle functionalization technology,
- contrast agent & specific antibody diagnostic techniques & imaging equipment,
- novel drug-delivery & activation systems
- new uses for electromagnetic based technology and medical equipment.
- Another important innovation is RNAi technology, and the objective is to investigate the successful formulation and application of nanocarriers including siRNA as the therapeutic agent.

Profile of Slovak Participant/ -s: hameln rds a.s. is a company dealing with drug development and provides all services which are necessary to bring a pharmaceutical product from the pharmaceutical, biotechnological and medical technology industries into the market. The present employees carry out chemical, biotechnology and analytical research, stability studies, pharmacological and toxicological studies as well as clinical trials and registration services at the request of their customers who are predominantly European.

SK Participant Project Cost: EUR 364 883.96

SK Participant EC Financial Contribution: EUR 275 734.43

Project Outcomes planned/real: The aim of the project was to use the latest techniques in nanotechnology to design nanoparticles capable of detecting and locating tumours. Once located, these developed nanoparticles will also have the capacity to attack and neutralise the tumour. The main NANOTHER objective was based on the integration of 5 key elements of current technology:

- 1) Nanoparticle functionalization technology,
- 2) Contrast agent and specific antibody diagnostic techniques and imaging equipment,
- 3) Novel drug-delivery and activation systems,
- 4) New uses for electromagnetic based technology and medical equipment,
- 5) Another important innovation is RNAi technology, and the objective was to investigate the successful formulation and application of nanocarriers including siRNA as the therapeutic agent.

The project was focused on breast, colon and bone cancer. New ways of preparing nanoparticles for biomedicine were found; their efficacy and the safety was demonstrated in the both systems in vitro and in vivo. One multifunctional nanoparticle that could be used for diagnosis of bone cancer in vivo was obtained. A new usable software for imaging tumours with the nanoparticles for the diagnosis of bone cancer was prepared. The NANOTHER consortium brought together 17 multidisciplinary partners from 9 European countries and was based on high-level scientific expertise from Universities, Research Centres, SMEs and large industrial groups.

Slovak Participant's Role in Project: hameln rds together was responsible for evaluating in vivo toxicity of different nanoparticles and drug loaded nanoparticles after single and repeated administration in mice (MTD, MTMD values). The selected nanoparticle formulations were evaluated also after repeated intravenous administration in CD1 mice. In addition, the mutagenicity of some nanoparticles was evaluated in two test systems. The test according to OECD 476 and OECD 474 test methods were used. The safety profile of selected nanoparticles was evaluated in hERG test, screening test for identifying cardiotoxicity.

The second area of hameln participation in NANOTHER project was the investigation of the biodistribution of the drug loaded nanoparticles using techniques such as radio-labeling, fluorescent labelling and analysis in animals. The normal mice as well as tumour bearing mice were used for biodistribution studies. The biodistribution experiments were focused on taxol nanoformulation in breast-cancer-bearing mice with high expression of folate receptor.

NOMS

Project ID: 228916

Project Title: NANO-OPTICAL MECHANICAL SYSTEMS

Project website: <http://www.noms-project.eu/>

Project Start Date: 2009-09-01

Project End Date: 2012-08-31

Project Total Cost: EUR 3 385 218

Project EC Financial Contribution: EUR 2 549 965

SLOVAK PARTICIPANT 1

Slovak participant Name: UNIA NEVIDIACICH A SLABOZRKYCH SLOVENSKA, Slovak Blind and Partially Sighted Union

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SLOVAK PARTICIPANT 2

Slovak participant Name: USTAV POLYMEROV SLOVENSKEJ AKADEMIE VIED, Polymer Institute of Slovak Academy of Sciences

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MICROSHARP CORPORATION LIMITED - UNITED KINGDOM

IXSCIENT LIMITED - UNITED KINGDOM

UNIVERSITAT AUTONOMA DE BARCELONA - SPAIN

UNIVERSITAET HAMBURG - GERMANY

UNIA NEVIDIACICH A SLABOZRKYCH SLOVENSKA, SLOVAK BLIND AND PARTIALLY SIGHTED UNION- SLOVAKIA

USTAV POLYMEROV SLOVENSKEJ AKADEMIE VIED, POLYMER INSTITUTE OF SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: Nano-optical mechanical actuation based on nanotube-enriched polymeric materials is a much sought-after technology. In this scheme, light sources promote mechanical actuation of the polymeric materials producing a variety of nano optical mechanical systems such as tactile displays, artificial muscles, and nano-grippers among others. The purpose of the NOMS project is to fabricate microsystems capable of light-induced mechanical actuation.

In particular, the team proposes to build a visual-aid tablet for the blind or partially-sighted. Accomplishing this ambitious project requires knowledge of the basic and the applied research within the field. It also requires the contribution of expert neuropsychologists to study, in cooperation with end-users, the effectiveness of the tablet both as an assistive tool for the visually impaired and as a research tool in the field of neuropsychology.

Project Objectives: The purpose of the NOMS project is to build a visual-aid tablet for visually impaired people which may be attached to computers, I-Pods, mobile phones, etc. The device will utilise novel developments in optically-actuated nano-composite materials. NOMS will provide tactile screens for the visually impaired to read complex visual representations such as mathematical equations and graphical images. Everyday activities of such individuals will be greatly improved by including these devices in ATMs, personal computers, mobile phones etc.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: ÚNSS - Slovak Blind and Partially Sighted Union is an NGO gathering visually impaired people, their family members, friends, specialists working in the field of visual impairment. It was established on 7 April 1990 and is registered by the Ministry of Interior of the Slovak Republic according to the Act 83/1990. The number of members is 4500, organized in 69 local organizations grouped in 8 regional councils. The main decision body is the national council. The general objective of UNSS is to improve the quality of life of visually impaired people; to prepare them for equal and integrated life; to give them a chance to participate in the creation of conditions necessary for their full participation in society; to provide special services, ICT and social rehabilitation training, social counselling and advocacy related to visual impairment. Services to visually impaired people are provided through the main office and 8 regional centres.

UNSS has a long time experience in the field of ICT; it has been participating in the localization of practically all assistive technology available on the Slovak market. It provides advisory service for the optimal choice of assistive technology; training of users and instructors of ICT with assistive technologies; accessible documents including Braille; counselling and audits of the accessibility of web sites; counselling for reasonable accommodation of home, educational and working environment; advisory service to building and transport companies, municipalities, and developers concerning the accessibility of built environment and transport systems.

SK Participant Project Cost: EUR 40 200

SK Participant EC Financial Contribution: EUR 40 200

Project Outcomes planned/real: The purpose of the NOMS project was to build a tactile tablet for visually impaired people which may be attached to computers, i-Pods, mobile phones etc.

The objective was to develop and to fabricate microsystems capable of light-induced mechanical actuation. The team proposed to develop two different refreshable tactile tablets for visually impaired people: a basic 10x10 version capable of displaying standard Braille text and a more advanced 80x80 version with higher resolution, capable of displaying some basic graphics.

Nano-optical mechanical actuation based on nanotube-enriched polymeric materials is a much sought-after technology. In this scheme, light sources promote mechanical actuation of the polymeric materials capable of producing a variety of nano-optical mechanical systems such as tactile displays, artificial muscles, and nano-grippers among others. A key component of the device is the photo-actuating material and the project has focused on two different material types – polymer-CNT composites

and liquid crystal elastomers. The latter materials have been successfully used in a prototype 10x10 tactile display. However, recent progress in the polymer-CNT materials (based on ethylene vinylacetate) suggests that these materials are now also suitable for inclusion in a similar device.

Although the version of tactile display, capable of showing basic graphics, is still some way from reality, the basic prototype capable of displaying standard Braille text has been demonstrated and is on track to provide advanced capabilities for visually impaired people.

Slovak Participant's Role in Project: Within the NOMS project, UNSS represented visually impaired potential end users; it was responsible for specifying and testing the intermediate and final project outputs from the point of view of visually impaired users, both beginners and experienced users of tactile graphics and Braille displays. UNSS also disseminated project ideas and results within the community of people with visual impairment, their educators and employers, and producers of assistive technology. UNSS participated at series of workshops and conferences, in which organisations and end users related to the visual impairment, were invited and given briefings on the technologies developed. UNSS as a member of the World Blind Union (WBU), the European Blind Union (EBU), the International Council for Education of Visually Impaired People (ICEVI), and the International Federation of Guide Dog Schools. Being active in these organisations helped the project partners to develop and foster contact and cooperation with the organisations of the blind in Europe.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Polymer Institute SAS (PI SAS) is an excellent research institute, it currently represents an important research and training centre for basic and applied research in the contemporary topics of polymer chemistry, characterization and study of new polymers, polymer composites, and nanocomposites, participated in national or international projects, projects of 7 FP, and cooperation with industry. The activities of the Department of Composite Materials are focused on the research and development of polymeric composites, nanocomposites, blends, and polymeric surfaces. In the field of polymeric composites, the main attention is paid to the electrically and thermally conductive composites on the base of carbon nanofillers for the advanced applications such as sensors and actuators. A significant attention is paid to the biodegradable plastics with the aim to modify their properties through blending with appropriate fillers. Another important topic for the department is the study of surface properties of polymeric films, fibres, and fabrics modified by barrier or radio-frequency plasma, with the aim to improve their polarity, conductivity, or antibacterial properties. A special effort is focused on the sol-gel chemistry and technology of organofunctional silanes. Researchers from the Department of Composite Materials involved in 7RP NOMS have a long time experiences with electrically conductive nanoparticles modification and application in nanocomposites and/or sensors.

SK Participant Project Cost: EUR 388 960

SK Participant EC Financial Contribution: EUR 302 960

Project Outcomes planned/real: The key outcome of the 7FP project NOMS was the preparation of photoactuating nanocomposites based on ethylene vinyl acetate copolymer - EVA and multiwall carbon nanotubes (MWCNT). For achieving a good dispersion of MWCNT in the polymeric matrix noncovalent modification with compatibilizer (cholesteryl 1-pyrenecarboxylate) was used. For the testing of photo and thermo actuation two types of samples were prepared. The first was in the form of a Braille element shape (BE). The best result of actuation was found for composite EVA/0.3 wt.% MWCNT, with 69 micron expansion of Braille element. EVA/MWCNT nanocomposites in the form of strips were tested during irradiation by different methods. The strips have shown reversible actuation when using the dynamic-mechanical analyser for testing. The measurements showed a bimodal fully reversible response for the test strips, depending on the method of strip preparation. Up to now the actuation of nanocomposites based on EVA copolymer filled with carbon nanotubes has not been published (WOS database). PI SAS researchers published 9 WOS papers, 1 book chapter and over 30 abstracts for posters and oral presentation on conferences.



Slovak Participant's Role in Project: FP7 project NOMS (Nano-Optical Mechanical Systems) was aimed to develop photomechanical active materials, i.e. materials that are able to change their dimensions upon radiation (IR / UV light) in order to construct a new type of touch screen for blind and partially sighted people. The aim of the project was to develop original screens which will be able to display not only Braille alphabets signs, but also complex graphical objects, equations, graphs and reliefs, which will facilitate access to information for visually-impaired people through computers. The main task of the project participants from PI SAS was to develop active materials based on commercially available elastomeric polymers with low cost. Photoactuating nanocomposites were prepared from polymer matrices - ethylene vinyl acetate copolymer (EVA), and styrene-isoprene-styrene copolymer (SIS) and nanofillers, carbon nanotubes (CNT) by casting from solution. To improve the dispersion of carbon nanotubes new compatibilizer based on pyrene and cholesterol was synthesized at PISAS: Photoactuators were prepared and tested in two forms. Two shapes of testing specimen were prepared, nanocomposites in the form of Braille element, and also nanocomposites in the form of strips. Braille elements after irradiation expanded. In the latter case, the test strips were uniaxially stretched in the oven using special homemade equipment, and CNT were oriented in the direction of stretching. The test strips were irradiated and a change actuating pressure during and after switching off the excitation radiation was monitored. Composites on the base of EVA filled with modified CNT in the form of strips showed bimodal and reversible actuation.

SAFEPROTEX

Project ID: 228439

Project Title: High-protective clothing for complex emergency operations

Project website: <http://www.safeprotex.org/>

Project Start Date: 2010-04-01

Project End Date: 2013-09-30

Project Total Cost: EUR 4 222 879

Project EC Financial Contribution: EUR 3 099 368

Slovak participant Name: VYSKUMNY USTAV CHEMICKYCH VLAKIEN, A.S., Research Institute for Man-Made Fibres, JSC

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DE MONTFORT UNIVERSITY - UNITED KINGDOM

INOTEX SPOL SRO - CZECH REPUBLIC

RESEARCH AND DEVELOPMENT OF CARBON NANOTUBES S.A. - GREECE

ASOCIACION SARE SALVAMENTO AYUDA RESCATE ESPANOL - SPAIN

SUMINISTROS IRUNAKO, S.C. - SPAIN

TDV INDUSTRIES - FRANCE

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SWEREA IVF AB - SWEDEN

FUNDACION GAIKER - SPAIN

NEXT TECHNOLOGY TECNOTESSILE SOCIETÀ NAZIONALE DI RICERCA R.L. - ITALY

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PALMHIVE TECHNICAL TEXTILES LTD - UNITED KINGDOM

RESCOLL - FRANCE

VYSKUMNY USTAV CHEMICKYCH VLAKIEN, A.S., RESEARCH INSTITUTE FOR MAN-MADE FIBRES, JSC - SLOVAKIA

Project Description: The concept of the SAFEPROTEX project lies in the development of protective uniforms, incorporating multiple protective properties and designated for rescue teams under complex risky conditions met in various types of everyday emergency operations.

Technological developments and climatic changes have both led to a large increase in the hazards to which humans are exposed. Since a garment or a uniform constitutes the safety barrier between the wearer and the source of potential injury, its characteristics will determine the degree of injury suffered in case of an accident or an emergency operation. The steady evolution of health & safety requirements to respond to new types of risks makes it necessary to develop new innovative products and to ensure their reliability. Indeed, the range of hazards and the means of combating them continue to grow and become ever more complex. Emergency teams are trained to face operations varying from small scale or wild land fires, extreme weather incidents and other complicated situations. Even in a given emergency operation, rescue teams are exposed to a variety of risks. Flood cleanup workers, for example, face variable hazards in flood waters that, in addition to obvious hazards such as water permeation, may also include sewage, household chemicals and cleaning solutions, petroleum products, hazardous industrial chemicals, pesticides, and flammable liquids.

Project Objectives: The idea that constitutes the basis of the proposed project is to create innovative solutions to address the main limitations of existing protective garments designated for rescue teams and emergency operators. Thus, the key scope of SAFEPROTEX is to develop uniforms exhibiting the following characteristics:

- Protection against multiple hazards
- Physiological comfort and enhanced mechanical parameters
- Extended service life compared to existing protective clothing

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 120 240

SK Participant EC Financial Contribution: EUR 90 270

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SHYMAN

Project ID: 280983

Project Title: Sustainable Hydrothermal Manufacturing of Nanomaterials

Project website: <http://www.shyman.eu>

Project Start Date: 2012-05-01

Project End Date: 2016-04-30

Project Total Cost: EUR 9 683 320.64

Project EC Financial Contribution: EUR 6 863 305

Slovak participant Name: GTVT S.R.O

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REPSOL YPF SA - SPAIN

PROMETHEAN PARTICLES LTD - UNITED KINGDOM

THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN - ÉIRE/IRELAND

VAN LOON CHEMICAL INNOVATIONS BV - NETHERLANDS

THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD - UNITED KINGDOM

SOLVAY SA - BELGIUM

ENDOR NANOTECHNOLOGIES SL - SPAIN

INSTYTUT WYSOKICH CISNIEN POLSKIEJ AKADEMII NAUK - POLAND

LEWA GMBH - GERMANY

ITAPROCHIM SRL - ITALY

TOP-GAN SP ZOO - POLAND

PPG FRANCE BUSINESS SUPPORT SAS - FRANCE

CESKE VYSOKE UCENI TECHNICKE V PRAZE - CZECH REPUBLIC

PIELASZEK RESEARCH SP ZOO - POLAND

CERAMISYS LIMITED - UNITED KINGDOM

GTVT S.R.O- SLOVAKIA

Project Description: Continuous hydrothermal synthesis is an enabling and underpinning technology that is ready to prove itself at industrial scale as a result of recent breakthroughs in reactor design which suggest that it could now be scaled over 100 tons per annum. Academic specialists with international reputation in reactor modelling and kinetics and metrology will develop the knowhow needed to scale up the current pilot scale system.

Selected project partners with expertise in sustainability modelling and life cycle assessment will quantify the environmental impact and benefits of a process that uses water as a recyclable solvent, whilst producing the highest quality, dispersed and formulated products. In addition to scale up production, the process will be improved through case studies with industrial end users in four key areas:

- Printed electronics with SOVY,
- Surface coatings with CRF, PPG and SOVY,
- Healthcare and medical with ENDOR and CERA,
- Hybrid polymers and materials with ITAP, TopGaN and REPSOL.

Further value will be added to the Project by working on new materials that have been identified as key future targets but cannot be currently made, or made in significant quantities. The consortium is founded on the principle that the whole value chain (from nanoparticle production to the final product) must be involved in the development of the technology. This will not only inform the development stages of the production process but also maximise market pull, rather than simply relying on a subsequent technology push.

Project Objectives: the SHYMAN project is a 4-year project based on a technology with a solid foundation and will focus on 5 key themes, specifically:

- Scale-up – what are the limits of the scale-up? How can these limits be impacted by a better process design?
- Formulation – how flexible is the process to allow online pre-treatment of the nanoparticle?
- Weight loading – how can the concentration of the final product be increased from 1 % to 30 %?
- Cost – how low can the opex be driven to make the one of the most sustainable manufacturing processes of the future?
- Sustainability – what are the environmental benefits of the process?

Profile of Slovak Participant/ -s: GTVT s.r.o. is an independent private research and development SME established in 2004. The company is fused on various industrial ecology areas and conducts applied and technological research with a goal to develop innovative technologies, processes and equipment, and to provide specialized services for the industry and public sectors. The company R&D activities are focused mainly on technologies for waste and wastewater recycling, waste management, environment protection, hydrometallurgy, biotechnology, biofuels and energy production, on-line measurements, electrochemistry and process engineering. GTVT has (an experience) is experienced in the investigation of the phenomena taking place at inorganic-organic mixtures, in particular, the physical-chemical processes for the recycling of components from various liquid and solid mixtures, detoxification, decontamination, purification and remediation technologies. Beside the common lab practice, GTVT has experience in design, construction and testing of bench-scale and semi-pilot plants, on-line monitoring systems, data treatment and process modelling.

SK Participant Project Cost: EUR 336 932.8

SK Participant EC Financial Contribution: EUR 251 499

Project Outcomes planned/real: It is vital that nanomanufacturing routes facilitate an increase in production whilst being 'green', sustainable, low cost and capable of producing high quality materials. Continuous hydrothermal synthesis is an enabling and underpinning technology that is ready to prove itself at industrial scale as a result of the recent breakthroughs in reactor design which suggest that it could now be scaled over 100 tons per annum. Academic specialists with international reputations in reactor modelling and kinetics and metrology will develop the 'know-how' needed to scale up the current pilot scale system. Selected project partners with expertise in sustainability modelling and life cycle assessment will quantify the environmental impact and benefits of a process that uses water as a recyclable solvent, whilst producing the highest quality, dispersed and formulated products. In addition to the scale up production, the process will be improved through case studies with industrial end users in four key areas – printed electronics surface coatings; healthcare and medical; hybrid polymers and materials. A further value will be added to the Project by working on new materials that have been identified as key future targets but cannot be currently made, or made in significant quantities. The consortium is founded on the principle that the whole value chain (from nanoparticle production to final product) must be involved in the development of the technology. This will not only inform the development stages of the production process but also maximise the 'market pull', rather than simply relying on a subsequent 'technology push'.

Slovak Participant's Role in Project: GTVT contributes to the project RTD activities in more work packages where GTVT is focussed on: on-line metrology approaches which must be developed that can quantify the improvements being made through formulation, and processing optimisation. One specific objective would be the identification of a rapid analysis method that is either real time or as close to real time as possible; Collection of high weight loaded solutions using mechanical and physical partitioning; and contribution in Life Cycle Assessment by waste water testing and recycling assessment.

SILTRANS

Project ID: 229127

Project Title: Micro and Nanocrystalline Silicide - Refractory Metals FGM for Materials Innovation in Transport Applications

Project website: <http://www.siltrans.sav.sk/>

Project Start Date: 2009-10-01

Project End Date: 2013-09-30

Project Total Cost: EUR 4 281 549

Project EC Financial Contribution: EUR 2 997 671

Slovak participant Name: USTAV MATERIALOV A MECHANIKY STROJOV SLOVENSKEJ AKADEMIE, Institute of Materials & Machine Mechanics Slovak Academy of Sciences

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Partners of the Consortium:

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EADS DEUTSCHLAND GMBH - GERMANY

ARCHER TECHNICOAT LIMITED - UNITED KINGDOM

TECHNISCHE UNIVERSITAET WIEN - AUSTRIA

FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY

CLEANAIR GMBH - AUSTRIA

DR. KOCHANEK ENTWICKLUNGSGESELLSCHAFT -- GERMANY

USTAV MATERIALOV A MECHANIKY STROJOV SLOVENSKEJ AKADEMIE, INSTITUTE OF MATERIALS & MACHINE MECHANICS SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: The SILTRANS project focuses on the development of novel composites. The volume content of silicides will gradually increase from the refractory core, forming a continuous skin layer on the surface. The design of these tailored gradient materials (FGM) will be based on multiscale modelling, characterisation and non-destructive evaluation techniques developed to elucidate the role of residual stresses and acting degradation mechanisms. The infiltration technique for manufacturing of complex near-net shape parts having self-healing oxide coating will open a cost efficient way for wide range of structural applications in space, automotive and energy production sectors, especially when a reliable performance at high temperature (above 1500 K) in oxidizing environment is required. The large involvement of industrial partners guarantees a rapid market uptake for the developed materials.

Project Objectives: The project focuses on the development of novel composites consisting of percolating shaped bodies made from refractory metals (Nb, Mo, W) which are embedded in silicide-matrix. In such composites the silicide matrix provides excellent oxidation resistance at high temperature (forming silica), while the percolating of refractory metal reinforcements enhances their strength at high temperature, ductility and creep resistance. The continuous metallic skeleton serves as an efficient tool against crack propagation, thus improving the toughness of material at both high and low temperatures.

Profile of Slovak Participant/ -s: Institute of Materials & Machine Mechanics Slovak Academy of Sciences (IMSAS). The Institute is oriented towards a basic and applied research in the development and characterization of advanced materials such as metal matrix composites (MMC), intermetallics and metallic foams. The development of materials is supported by research facilities for the evaluation of structure and the determination of almost all basic materials' properties. The Institute has gained much experience in design and development of unique processing technologies and it supplies many institutes and companies all over the world with testing samples and prototypes. The standard manufacturing routes include directional solidification, diffusion bonding, pressure infiltration, cold and hot isostatic compaction, hot extrusion, electrolytic, CVD and PVD deposition of coatings on reinforcing constituents, plasma spraying of metallic and ceramic powders, foaming of metals. IMSAS possesses the unique experience in synthesis of various alloys, compounds and nanostructured materials with the aid of various advanced technologies.

SK Participant Project Cost: EUR 732 496

SK Participant EC Financial Contribution: EUR 539 664

Project Outcomes planned/real: The aim of the project was to develop a new class of high temperature composites consisting of a continuous refractory metal framework (Nb, Mo, W) embedded in a silicide matrix. The plan was to infiltrate continuous (percolating) porous skeletons of refractory metal (Nb, Mo, W) with molten silicon or silicon based alloy using gas pressure infiltration (GPI). During GPI, partial reactions between melt and refractory metal take place, forming silicides predominantly in the vicinity of the surface of porous precursor, leaving less free silicon for the formation of silicides inside the porous structure, thus making in situ FGMs with gradually increasing metal content towards the core of the composite. Extensive study of infiltration of wire and particle Mo preforms with molten silicon has been performed. Two competitive processes dominate the infiltration – the penetration of silicon into the empty spaces and dissolution of Mo in molten Si. It is therefore crucial to gain control of the process kinetics. The infiltration process was optimized and preforms made of Mo wires and sintered Mo powders were infiltrated. It appeared that the intense reaction between Mo and Si can be controlled by the amount of silicon entering the reaction or by using metals alloyed with silicon. The elimination of porosity accompanying the silicide formation as a result of volume changes due to phase transformations represents a serious problem. Silicides are very firm even at temperatures above 1500 °C which makes their compaction via current compaction technologies quite complicated. Therefore, Mo wires with surface silicides were coated with a thin layer of Ni and subsequently pressed. Ni formed a ternary phase interconnecting Mo wires. The porosity significantly decreased. Procedure for direct infiltration of silicides with Ni was investigated. Demonstrator-components of some applications were made of developed composites. Oxidation tests confirmed excellent properties in an aggressive gas environment. Mechanical tests showed that new composite Mo/MoSi has a bending strength of 289 MPa at 1150 °C which is greater than the one of the currently used top material PM 1000 (160 MPa).

Slovak Participant's Role in Project: Institute of Materials & Machine Mechanics Slovak Academy of Science was the main coordinator of the project. It coordinated 8 partners from 5 European countries (Austria, Germany, UK, Switzerland and Slovakia). Beside the coordination and management of the whole SILTRANS project, IMSAS developed and optimised a novel reactive infiltration technique for the infiltration of porous refractory preforms with silicon and contributed to material analysis. Various demonstrators were prepared and successfully tested.

SMASH

Project ID: 228999

Project Title: Smart Nanostructured Semiconductors for Energy-Saving Light Solutions

Project website: http://www.osram-os.com/osram_os/en/

Project Start Date: 2009-09-01

Project End Date: 2012-08-31

Project Total Cost: EUR 11 947 753

Project EC Financial Contribution: EUR 8 299 360

Slovak participant Name: MEDZINARODNE LASEROVE CENTRUM, International Laser Centre

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Contact person email/ phone: Prof. Frantisek Uherek, uherek@ilc.sk, +421 2 65421575

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UNIVERSITAET KASSEL - GERMANY

TECHNISCHE UNIVERSITAET BRAUNSCHWEIG - GERMANY

L - UP SAS - FRANCE

OXFORD INSTRUMENTS PLASMA TECHNOLOGY LTD - UNITED KINGDOM

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE

FORSCHUNGSVERBUND BERLIN E.V. - GERMANY

UNIVERSITA DEGLI STUDI DI ROMA TOR VERGATA - ITALY

UNIVERSITY OF BATH - UNITED KINGDOM

OBDOCAT TECHNOLOGIES AB - SWEDEN

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE

MACDERMID AUTOTYPE LTD - UNITED KINGDOM

OBDOCAT TECHNOLOGIES AB - SWEDEN

MEDZINARODNE LASEROVE CENTRUM, INTERNATIONAL LASER CENTRE- SLOVAKIA

Project Description: Solid state light sources based on compound semiconductors are opening a new era in general lighting and will contribute significantly to a sustainable energy saving. For a successful and broad penetration of LEDs into the general lighting market two key factors are required: high efficiency and low cost. Two new disruptive technologies based on nano-structured semiconductors are proposed to address these key factors. A novel epitaxial growth technique based on nano-rod coalescence will be explored to realize ultra-low defect density templates which will enable strain-relieved growth of LEDs and thus achieve higher efficiency. The second highly innovative approach is the growth of directly emitting Gallium nitride based nano-rod structures. These structures are expected to produce exceptionally high efficiency devices covering the whole visible spectrum and even phosphor-free white LEDs. Significantly, our new nano-structured compound semiconductor based technology will enable LED growth on low-cost and large-area substrates (e.g., Silicon) as wafer bowing will be eliminated and thus lead to a dramatic reduction in production costs.

Project Objectives: The main objectives over the three years are: Profound understanding of the growth mechanisms and properties of nano-rod systems New materials and process technologies (wafer-scale nano-imprinting, dry etching, device processing) for LEDs based on nano-structured templates and nano-rod LEDs.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 393 600

SK Participant EC Financial Contribution: EUR 297 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SO-PC-PRO

Project ID: 609190

Project Title: Subject-Orientation for People-Centred Production

Project website: <http://www.metasonic.de/en/SO-PC-Pro>

Project Start Date: 2013-10-01

Project End Date: 2016-09-30

Project Total Cost: EUR 4 040 080

Project EC Financial Contribution: EUR 2 947 725

SLOVAK PARTICIPANT 1

Slovak participant Name: TC CONTACT, spol. s r.o.

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SLOVAK PARTICIPANT 2

Slovak participant Name: Centire s.r.o.

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AXXIS CONSULTING SA DE CV - MEXICO

BYELEMENT GMBH - SWITZERLAND

FRANCO CESARO SRL - ITALY

CORPORATIVO BIMBO SA DE CV - MEXICO

MA SYSTEMS AND CONTROL LIMITED - UNITED KINGDOM

FIMAP SPA - ITALY

METASONIC AG - GERMANY

Centire s.r.o. - SLOVAKIA

TC CONTACT, spol. s r.o. - SLOVAKIA

Project Description: European production companies face a variety of challenges arising from the increasingly complex and dynamic environment in which they operate. These challenges have been understood mostly in economic terms based on the time-cost-quality triangle. The main approach to tackling these challenges has been to rationalise production processes through standardised work procedures and automated systems, aiming to reduce cost and increase productivity. However, the predominant focus on functionality and efficiency neglects a critical factor for sustainable organisational success: the human being. While worker satisfaction, motivation and empowerment have been recognised as critical for healthy production organisations, these human factors are often viewed as being at odds with the economic goals of a company.

Project Objectives: The goal of SO-PC-Pro is to develop methods and tools for the holistic design and management of workplaces in production companies, thereby aligning business goals and human needs. It is based on a view of production companies as complex, socio-technical systems of people, processes and machines that flexibly interact. This view is well captured in the "subject-oriented" methodology for bpm. SO-PC-Pro will apply this methodology for the first time to modelling processes and interactions in the production domain, resulting in a new set of ICT-based technologies that will support people-centred workplaces in three ways: 1) through developing new human-machine interactions that allow for higher degrees of the autonomy of workers, 2) through empowering workers to re-design their own workplaces using intuitive design methods and collaborative tools, and 3) through seamlessly integrating production and business processes to enable more adaptable workplaces throughout the whole enterprise. By building on existing models and interface standards, the technologies and case studies developed will demonstrate that people-centred production sites can be created in a not so distant future.



SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 240 000

SK Participant EC Financial Contribution: EUR 165 600

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Since its foundation in 1994, Centire Ltd. – based in Bratislava, Slovakia – ranks, thanks to hundreds of successfully implemented projects, among the top consultancies in the Slovak market. The successful implementation of its projects is based on cooperation with domestic and foreign professionals and leading international consulting and IT companies. The company provides services in four main areas: grant consultancy, management consulting, IT consulting as well as tax consulting and bookkeeping services. Centire provided consulting services in preparation of the projects financed through the Operational Programmes of the National Strategic Reference Framework, cross-border cooperation programmes and community programmes (Life-long Learning Program – Leonardo da Vinci, Sixth and Seventh Framework Programmes). It has also been involved in many successful projects in the field of environment, public facilities, research and development and education. The company's clients include, for example, the towns of Snina, Hurbanovo and Martin; the municipalities of Muráň, Čachtice and Vyškovce nad Ipľom; and the companies such as Agrofert Holding, Slovak Telekom and many others. Other examples of many important and innovative projects include a cooperation with the creating of eGovernment in the Slovak Republic and the Civitas.sk portal, which allows cities to provide quality electronic services to their inhabitants, or the first electronic survey in Turčianske Teplice, which was awarded the „Inovatívny čin roka“ prize (Innovation of the year). The company's processes are certified according to the STN EN ISO 9001:2009 and STN EN ISO 14001:2005 standards. The company provides its project management services to different project owners. Moreover, Centire is also a founding member of the Slovak Grant Consultants' Association.

SK Participant Project Cost: EUR 223 360

SK Participant EC Financial Contribution: EUR 162 880

Project Outcomes planned/real: The goal of SO-PC-Pro is to develop methods and tools for the holistic design and management of workplaces in production, companies, thereby aligning business goals and human needs. It is based on a view of production companies as complex, socio-technical systems of people, processes and machines that flexibly interact. This view is well captured in the "subject-oriented" methodology for bpm. For the first time, SO-PC-Pro will apply this methodology to modelling processes and interactions in the production domain, resulting in a new set of ICT-based technologies that will support people-centred workplaces in three ways: 1) through developing new human-machine interactions that allow for higher degrees of the autonomy of workers, 2) through empowering workers to re-design their own workplaces using intuitive design methods and collaborative tools, and 3) through seamlessly integrating production and business processes to enable more adaptable workplaces throughout the whole enterprise. By building on existing models and interface standards, the technologies and case studies developed will demonstrate that people-centred production sites can be created in a not so distant future.

Slovak Participant's Role in Project: Centire participates in defining use cases on site with one of two production companies engaged in the project – TC Contact, s.r.o. Based on the requirements for the specific use cases, Centire is involved in WP 3 (Development of Extensions of Subject-Orientation) concerning with developing methods, models and tools for extending the subject-oriented methodology. The outputs of this WP will then be implemented on the shop floor through WP4 (Case Study Implementation "Process Automation"), for which Centire is a WP leader. In the WP7 (Formative and Case Study Evaluations) Centire will collect various data and perform analyses to evaluate the SO-PC-Pro in a formative as well as summative way.

STOICISM

Project ID: 310645

Project Title: Sustainable Technologies for Calcined Industrial Minerals in Europe

Project website: <http://www.stoicism.eu/>

Project Start Date: 2013-01-01

Project End Date: 2016-12-31

Project Total Cost: EUR 8 632 661.23

Project EC Financial Contribution: EUR 5 828 076

SLOVAK PARTICIPANT 1

Slovak participant Name: GA DRILLING A.S.

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SLOVAK PARTICIPANT 2

Slovak participant Name: ECOLAND S.R.O.

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C-TECH INNOVATION LIMITED - UNITED KINGDOM

PREDICT SAS - FRANCE

BIO ACEITES DEL SUR SL - SPAIN

UNIVERSITÉ DE LORRAINE - FRANCE

INDUSTRIAL MINERALS ASSOCIATION EUROPE - BELGIUM

CENTRAX LIMITED - UNITED KINGDOM

FULLER SMITH & TURNER PLC - UNITED KINGDOM

IMPERIAL CHEMICAL INDUSTRIES LIMITED - UNITED KINGDOM

AALTO-KORKEAKOULUSAATIO - SUOMI/FINLAND

TECHNISCHE UNIVERSITEIT DELFT - NETHERLANDS

TEMA PROCESS BV - NETHERLANDS

OUTOTEC GMBH - GERMANY

PRICEWATERHOUSECOOPERS ADVISORY SAS - FRANCE

THE UNIVERSITY OF EXETER - UNITED KINGDOM

GA DRILLING A.S. - SLOVAKIA

ECOLAND S.R.O.- SLOVAKIA

Project Description: Europe is a major global producer of industrial minerals. Around 180 million tonnes per year of products are extracted in the EU, with an estimated contribution of 10 billion to European GDP and offering direct employment to some 42 500 people. A secure supply of sustainable mineral products is essential to maintain the European mining, mineral and manufacturing industries.

Project Objectives: The main objective of STOICISM is to enhance the competitiveness of the European industrial minerals sector by developing cleaner, more energy efficient extraction and processing technologies. STOICISM is an industry-led project with a specific focus on calcined industrial minerals which are presently energy intensive to produce. Most calcining uses the direct combustion of fossil fuels, contributing to up to 85% of their carbon emissions.



To meet the overall aim, three key calcined industrial minerals have been identified: diatomaceous earth; perlite and kaolin. The processes implemented can then also be directly transferable to many other industrial minerals. In global terms, the EU produces one third of the world's production of perlite, 20% of calcined kaolin and 20% of diatomite. Key markets for these minerals are beverage filtration, coatings, plastic, rubber, cosmetics, and insulation and construction materials. STOICISM will research, develop and demonstrate a range of new innovative technologies along the industrial minerals value chain. This will include developments in extraction, beneficiation, drying, calcining and waste recycling.

STOICISM is expected to have significant impact on the sustainability of the EUs industrial minerals industry by decreasing the use of natural resources (both mineral deposits and energy resources) leading to the sustainable production of better and purer products with less waste and lower environmental impact.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: GA Drilling (former Geothermal Anywhere) is a high-technology SME located in Bratislava, Slovakia. The company is focused on the R&D of new technology for deep drilling and mining to efficiently reach sources several kilometres under the Earth's surface. The core of the technology is based on the thermal approach of a non-contact electric plasma drilling device. This technology brings substantial results in many industries such as mining, tunnelling, geothermal energy, oil and gas drilling, and carbon capture and storage (CCS). Geothermal Anywhere owns several patent applications for technologies in the deep drilling and material disintegration areas.

SK Participant Project Cost: EUR 689 600

SK Participant EC Financial Contribution: EUR 512 440

Project Outcomes planned/real: The main objective of STOICISM is to enhance the competitiveness of the European Industrial Minerals (IM). STOICISM is expected to have significant impact on the sustainability of the EU's IM industry by decreasing the use of natural resources (mineral deposits and energy resources), leading to the production of better and purer products with less waste and lower environmental impact. The industry, will develop a cleaner, more energy efficient extraction and processing technology and also advanced engineering solutions and routes to market to enable application.

Slovak Participant's Role in Project: GA Drilling's primary project task is to design and modify equipment and/or infrastructure for the processes of dewatering, drying and calcination (high temperature treatment). Their approach is based on the utilisation of the plasma torch assisted and joule heating assisted processes. This effort will be followed by the evaluation of the potential of the scale-up of both processes to industrial scale, and feasibility studies focused on energy and mass balance.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 486 880

SK Participant EC Financial Contribution: EUR 363 120

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SURFUNCCELL

Project ID: 214653

Project Title: Surface functionalisation of cellulose matrices using cellulose embedded nano-particles

Project website: <http://www.surfuncell.eu/>

Project Start Date: 2008-12-01

Project End Date: 2012-11-30

Project Total Cost: EUR 7 996 704

Project EC Financial Contribution: EUR 5 472 795

Slovak participant Name: MONDI SCP A.S.

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UNIVERZA V MARIBORU - SLOVENIA

UNIVERSITEIT UTRECHT - NETHERLANDS

UNIVERSITY OF HULL - UNITED KINGDOM

NANOMEPS SARL - FRANCE

PREDILNICA LITJIA DOO - SLOVENIA

FRIEDRICH-SCHILLER-UNIVERSITAET JENA - GERMANY

INNOVIA FILMS LIMITED - UNITED KINGDOM

X-FLOW BV - NETHERLANDS

CHT R. BETLICH GMBH - GERMANY

ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS - ARMINES - FRANCE

MONDI UNCOATED FINE & KRAFT PAPER GMBH - AUSTRIA

MONDI SCP A.S. - SLOVAKIA

Project Description: EU-funded scientists have developed renewable composites largely made up of natural materials and functionalised with green processing methods. The approach aims to impart properties such as antimicrobial activity, corrosion resistance and ultraviolet (UV) protection.

Nanocomposites typically consist of a polymeric matrix in which nanoparticles are embedded as fillers or reinforcements. Surface functionalisations achieved by embedding the nanoparticles at the matrix surface are much less common. However, much as cell surface receptors impart a wealth of functions to a living cell, such modifications on the surface of other materials can play an important role in the way the composites interact with other materials and substances.

Project Objectives: The projects main R&T objective is to create new, smart and bio-based surface nanostructured polymer composites showing exceptional surface functionality (mechanical, chemical, selective interaction properties). These new materials will be composed of nano-scaled polysaccharides layers with embedded nano-particles, coating different celluloses matrices. The compounding is restricted to the biopolymers surface and outer layers, providing the filler to the area where it is required and avoiding the deterioration of the matrix materials mechanical properties. The project will investigate these new effects - cellulose dissolution, structuration with nano-particles and irreversible coating will develop their understanding and mastering and exploit their applicability. Several routes will be opened to prepare a completely new class of high-value biobased materials with tailored functions and properties applicable in many different fields

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SWARMITFIX

Project ID: 214678

Project Title: Self reconfigurable intelligent swarm fixtures

Project website: <http://www.dimec.unige.it/pmar/sfix/>

Project Start Date: 2008-10-01

Project End Date: 2012-01-31

Project Total Cost: EUR 3 695 367

Project EC Financial Contribution: EUR 2 649 045

Slovak participant Name: ZTS VYSKUMNO-VYVOJOVY USTAV KOSICE AS, ZTS VVU KOSICE a.s.

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CENTRO RICERCHE FIAT SCPA - ITALY

POLITECHNIKA WARSZAWSKA - POLAND

PIAGGIO AERO INDUSTRIES SPA - ITALY

EXECHON AB - SWEDEN

ZTS VYSKUMNO-VYVOJOVY USTAV KOSICE AS, ZTS VVU KOSICE a.s. - SLOVAKIA

Project Description: A step beyond flexible/reconfigurable fixtures for higher continuous adaptation of production resources respect to production objectives and technical conditions in the knowledge-based factory is achievable today by synergic convergence of the NMP themes of flexible fixtures, parallel robots and new/smart materials with the ICT themes of robot swarms with networked embedded control. Today's smartest adaptable fixtures have limited adjustment capability, are mostly operated manually, are usually setup off-line with help of external measuring equipment, e.g. laser. Significant increase in effectiveness and decrease in cost may come from on-line fully actuated configuration/reconfiguration, large adaptability to different shapes and the capability to dynamically concentrate the support in the region where manufacturing is actually performed, doing that on-line and without moving/removing the part from the fixture. We propose the new concept of self adaptable swarm fixtures composed of mobile agents that can freely move on a bench and reposition below the supported part behaving as a swarm, all without moving/removing the part from the fixture. Each fixture agent is composed of: *A mobile platform, *a parallel robot fixed to the mobile platform, *an adaptable head with phase-change fluid and an adhesion arrangement, to sustain/clamp the supported part perfectly adapting to the part local geometry. A hybrid control system is adopted and each robot is treated as an autonomous agent exhibiting its own behaviours. Behaviour based translocation of the robots to destination positions is adopted to reduce planner complexity, with *no need to plan exact trajectories and *no significant increase in complexity when extra units are removed/added. The area of manufacturing of thin metal sheets is considered (aircrafts and automotive bodies). The project objective is to develop a swarm fixture for a large range of sheet shapes to fully replace the specialized fixtures today used.

Project Objectives: The project develops intelligent fixture technology for the manufacturing of components made of thin sheets with 3D geometry. The new concept of self adaptable swarm fixture is proposed.

The targeted applications are manufacturing of aircraft and automotive body components.

The swarm fixture comprises a bench, few fixed supports constraining the rigid body motions of the workpiece, a swarm of mobile support agents moving on the bench and repositioning below the workpiece in the workpiece region where manufacturing is currently carried out.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 580 603.2

SK Participant EC Financial Contribution: EUR 419 302

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

VFF

Project ID: 228595

Project Title: Holistic, extensible, scalable and standard Virtual Factory Framework

Project website: <http://www.vff-project.eu/>

Project Start Date: 2009-09-01

Project End Date: 2013-02-28

Project Total Cost: EUR 11 941 510.4

Project EC Financial Contribution: EUR 8 000 000

Slovak participant Name: CEIT SK S.R.O.

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SIMX LIMITED - UNITED KINGDOM

MAGYAR TUDOMANYOS AKADEMIA SZAMITASTECHNIKAI ES AUTOMATIZALASI KUTATO INTEZET - HUNGARY

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STEEL PROJECTS FRANCE - FRANCE

COMPA SA - ROMANIA

ROPARDO SRL - ROMANIA

AUTOEUROPA-AUTOMOVEIS LDA - PORTUGAL

ALENIA AERMACCHI SPA - ITALY

PSI AKTIENGESELLSCHAFT FÜR PRODUKTE UND SYSTEME DER INFORMATIONSTECHNOLOGIE - GERMANY

TECHNOLOGY TRANSFER SYSTEM S.R.L. - ITALY

AUDI HUNGARIA MOTOR KFT. - HUNGARY

FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY

NOVA INNOVATION SOLUTIONS GMBH - SWITZERLAND

UNIVERSITY OF PATRAS - GREECE

FUNDACION TECNALIA RESEARCH & INNOVATION - SPAIN

INESC PORTO - INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES DO PORTO - PORTUGAL

HOMAG HOLZBEARBEITUNGSSYSTEME GMBH - GERMANY

SCUOLA UNIVERSITARIA PROFESSIONALE DELLA SVIZZERA ITALIANA (SUPSI) - SWITZERLAND

FICEP S.P.A. - ITALY

FRIGOGLOSS SAIC COMMERCIAL REFRIGERATION AE - GREECE

SYM VOULOI KAI PROIONTA LOGISMIKOU AE - GREECE

CEIT SK S.R.O.- SLOVAKIA

Project Description:

The VFF promotes major time and cost savings while increasing performance in the design, management, evaluation and reconfiguration of new or existing facilities, supporting the capability to simulate dynamic complex behaviour over the whole life cycle of Factory, approached as a complex long living Product.

The project defines and implements the underlying models and ideas at the foundation of a new conceptual framework designed to implement the next generation Virtual Factory, also meant to lay the basis for future applications in this research area

Project Objectives: The project's uttermost objective is to foster and strengthen the primacy of Future European Manufacturing by defining the next generation Virtual Factory Framework. The VFF will promote major time and cost savings while increasing performance in the design, management, evaluation and reconfiguration of new or existing facilities, supporting the capability to simulate dynamic complex behaviour over the whole life cycle of Factory, approached as a complex long living Product. Thus the project will research and implement the underlying models and ideas at the foundation of a new conceptual framework designed to implement the next generation Virtual Factory, also meant to lay the basis for future applications in this research area.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 254 400

SK Participant EC Financial Contribution: EUR 184 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

WOODWISDOM- NET+

Project ID: 321573

Project Title: WoodWisdom-Net+ Pacing Innovation in the Forest-Based Sector

Project website: www.woodwisdom.net

Project Start Date: 2012-11-15

Project End Date: 2017-11-14

Project Total Cost: EUR 2 340 845

Project EC Financial Contribution: EUR 8 000 000

Slovak participant Name: MINISTERSTVO PODOHOSPODARSTVA A ROZVOJA VIDIEKA SLOVENSKEJ REPUBLIKY, Ministry of Agriculture and Rural Development of the Slovak Republic

Slovak participant address: DOBROVICOVA 12, 812 66 BRATISLAVA

Contact person: Dr. Boris Greguska, email/ phone: boris.greguska@land.gov.sk, +421259266519

Partners of the Consortium:

TEKES-TEKNOLOGIAN JA INNOVAATIOIDEN KEHITTAEMISKESKUS - SUOMI/FINLAND

MINISTRY OF AGRICULTURE AND FORESTRY - SUOMI/FINLAND

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE - FRANCE

MINISTRSTVO ZA IZOBRAZEVANJE, ZNANOST, KULTURO IN SPORT - SLOVENIA

INSTITUT TECHNOLOGIQUE FCBA (FORETCELLULOSE BOIS-CONSTRUCTION AMEUBLEMENT) - FRANCE

MINISTERE DE L AGRICULTURE DE L AGROALIMENTAIRE ET DE LA FORET - FRANCE

LATVIJAS ZINATNU AKADEMIJA - LATVIA

SUOMEN AKATEMIA - SUOMI/FINLAND

THE FORESTRY COMMISSIONERS - UNITED KINGDOM

VERKET FÄ-R INNOVATIONSSYSTEM - SWEDEN

NORGES FORSKNINGSRAD - NORWAY

BUNDESMINISTERIUM FÜR LAND- UND FORSTWIRTSCHAFT, UMWELT UND WASSERWIRTSCHAFT - AUSTRIA

FACHAGENTUR NACHWACHSENDE ROHSTOFFE E.V. - GERMANY

MINISTERSTVO PODOHOSPODARSTVA A ROZVOJA VIDIEKA SLOVENSKEJ REPUBLIKY, MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT OF THE SLOVAK REPUBLIC- SLOVAKIA

STATENS ENERGIMYNDIGHET - SWEDEN

AGENCE DE L'ENVIRONNEMENT ET DE LA MAITRISE DE L'ENERGIE - FRANCE

MINISTRY OF AGRICULTURE REPUBLIC OF LATVIA - LATVIA

DEPARTMENT OF AGRICULTURE, FOOD AND THE MARINE - ÉIRE/IRELAND

FEDERAL DEPARTMENT FOR ENVIRONMENT TRANSPORTS ENERGY AND COMMUNICATION - SWITZERLAND

EIDGENÖSSISCHES VOLKSWIRTSCHAFTSDEPARTEMENT - SWITZERLAND

Project Description: The overall objective of the WoodWisdom-Net+ is to support the transformation of the European F-BI and sustainable forest management for increasing resource efficiency and adapting to and mitigating climate change effects. This will be achieved by integrating knowledge and technologies of large-scale industrial products and processes, as well as primary production.

The aim is to plan a single joint call for proposals for research, development and innovation in the forest sector with a clear financial commitment from the participating national (or regional) research programmes and the EU

Project Objectives: The main approach in the WW-Net+ is the substitution of non-renewable resources (e.g. materials or fossil fuels), by renewable forest-based solutions to reduce carbon emissions and waste. The joint trans-national call will address the whole forest-based value chain in four areas.

These are: 1) the sustainable management of forest resources through 2) their efficient utilisation in industrial processes to 3) value added products and 4) competitive customer solutions. The exact scope will be defined during the project.

WW-Net+ will base its research, development and innovation funding activities on the processes and experience developed during the preceding ERA-Nets towards streamlined and efficient processes. The preceding ERA-Nets WoodWisdom-Net (2004-08) and WoodWisdom-Net 2 (2009-12) form the transnational WoodWisdom-Net Research Programme (total funding volume of the launched 3 calls ca. 50 MEUR) which provides the planned ERA-NET Plus Action with a solid foundation. Looking to the future, the WW-Net+ will continue to improve the delivery of joint activities and has ambitious goals for funding trans-national research and offering access to the resources of other countries.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 30 165.6

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

1. Specific programme
COOPERATION

1.5 Energy



CEUBIOM

Project ID: 213634

Project Title: Classification of European Biomass Potential for Bioenergy Using Terrestrial and Earth Observations

Project website: <http://www.ceubiom.org/>

Project Start Date: 2008-03-01

Project End Date: 2010-11-30

Project Total Cost: EUR 1 340 827

Project EC Financial Contribution: EUR 1 340 827

Slovak participant Name: SLOVENSKA INOVACNA A ENERGETICKA AGENTURA, Slovak Innovation and Energy Agency

Slovak participant address: Bajkalská 27, 827 99 BRATISLAVA

Contact person email/ phone: Eduard Jambor; eduard.jambor@siea.gov.sk; +421908 736 041

Partners of the Consortium:

GEONARDO ENVIRONMENTAL TECHNOLOGIES LTD - HUNGARY

UNIVERZA V LJUBLJANI - SLOVENIA

ADVANCED COMPUTER SYSTEMS ASC S.P.A. - ITALY

CROSS CZECH A.S. - CESKA REPUBLIKA

INSTYTUT GEODEZJI I KARTOGRAFII - POLAND

CENTRUL PENTRU PROMOVAREA ENERGIEI CURATE SI EFICIENTE IN ROMANIA - ROMANIA

MIZH Narodna Asociația Ukrainkii Centr Menedjmentu Zemli ta Resursiv - UKRAINE

NACIONALNA ASOCIACIA PO BIOMASA - BULGARIA

UNIVERZITET U SARAJEVU - BOSNIA AND HERZEGOVINA

MEDITERRANEAN AGRONOMIC INSTITUTE OF CHANIA - GREECE

REMOTE SENSING SOLUTIONS GMBH - GERMANY

UNIVERSITY OF ZAGREB FACULTY OF ELECTRICAL ENGINEERING AND COMPUTING - CROATIA

BALKAN FOUNDATION FOR SUSTAINABLE DEVELOPMENT - THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA

JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFT MBH – AUSTRIA

SLOVENSKA INOVACNA A ENERGETICKA AGENTURA, SLOVAK INNOVATION AND ENERGY AGENCY - SLOVAKIA

Project Description: With the advent of Earth Observation (EO) techniques in natural sciences, increasing interest has been documented in using these approaches in order to estimate the potential of biomass production for specific areas. Before the extensive use of remote sensing on biomass estimation, field data were used to this end. The most common approach has been the destructive sampling of average trees and development of allometric equations which relate one or several plant dimensions (e.g. diameter, height, crown depth etc.) to several biomass components (stem, branches, foliage etc.).

EO satellites, with increasing capabilities in terms of spatial, temporal and spectral resolution, allow a more efficient, reliable and affordable monitoring of the environment over time at global, regional and local scales. The combined use of EO-derived data with in-situ measurement based on common agricultural and forestry survey practices can be a powerful tool for assessing biomass potential. The ambition of CEUBIOM project is to develop a platform and a self-sustained e-service that will directly assist and train professionals from the EO, agricultural and EO/biomass sectors with regard to the new, common and harmonised applications of EO and a better understanding of each other's requirements.

Project Objectives: The main objective of the project is to develop a common methodology for gathering information on biomass potential using terrestrial and earth observations. This objective will be achieved by the implementation of a systematic assessment work plan and will result in the establishment of a harmonised approach and an e-training tool for dissemination. The e-training environment will be an important tool for reaching the much-needed European harmonisation, whereas a Stakeholder Platform will facilitate access to reliable and common datasets on biomass potential and as such it will offer a more efficient use of the available European biomass feedstock. The project will:

- develop a common methodology for gathering information on biomass potential using terrestrial and earth observations;
- disseminating information, best practices and methodology on using earth observations in the assessment of biomass potential;
- use e-technologies for disseminating information, best practices on the use and applicability of developed harmonised methodology.

Profile of Slovak Participant/ -s: The Slovak Innovation and Energy Agency (SIEA) is a contributory organization of the Ministry of Economy of the Slovak Republic. Initially, it formed a part of the Slovak energy inspection. In 1999, it became independent on the ground of the decision of the Minister of Economy of the Slovak Republic. It is a recognized independent expert authority in the energy sector. It performs consulting, training and implementation of support programmes in this area. Since 2007, it also performs tasks related to supporting increasing innovation performance of enterprises. For ten years, SIEA has implemented measures supported by the Structural Funds of the European Union (EU). In 2014, it became the sole implementing agency of the Ministry of Economy of the Slovak Republic.

SK Participant Project Cost: EUR 75 859

SK Participant EC Financial Contribution: EUR 75 859

Project Outcomes planned/real: The main objective of the project was to develop a common methodology for gathering information on biomass potential using terrestrial and earth observations. Establishment of a common dataset and an e-training tool, which contained updated information on best practices and a common methodology on the assessment of biomass potential in Europe using remote sensing.

Slovak Participant's Role in Project: SIEA has been a regular project partner. SIEA Department for International Cooperation and Projects is responsible for the implementation of projects funded through various European community programmes.



CGS EUROPE

Project ID: 256725
 Project Title: Pan-European coordination action on CO2 Geological Storage
 Project website: <http://www.cgseurope.net/>
 Project Start Date: 2010-11-01
 Project End Date: 2013-10-31
 Project Total Cost: EUR 2 619 558.84
 Project EC Financial Contribution: EUR 2 236 837

Slovak participant Name: STATNY GEOLOGICKY USTAV DIONYZA STURA, State Geological Institute of Dionyz Štúr
 Slovak participant address: MLYNSKÁ DOLINA 1, 817 04 BRATISLAVA
 Contact person email/ phone: RNDr. Ľudovít Kucharčí, CSc, ludovit.kucharci@geology.sk, 02 59375478
 Partners of the Consortium:

BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES - FRANCE
 GEOINZENIRING DRUZBA ZA GEOLOSKI INZENIRING DOO - SLOVENIA
 DEPARTMENT OF COMMUNICATIONS, ENERGY AND NATURAL RESOURCES - ÉIRE/IRELAND
 GEOLOGIAN TUTKIMUSKESKUS - SUOMI/FINLAND
 CO2GEONET - RESEAU D'EXCELLENCE EUROPEEN SUR LE STOCKAGE GEOLOGIQUE DE CO2 - FRANCE
 LATVIJAS VIDES, GEOLOGIJAS UN METEOROLOGIJAS CENTRS SIA - LATVIA
 ETHNIKO KENTRO VIOSIMIS KAI AEIFOROU ANAPTYXIS - GREECE
 SVERIGES GEOLOGISKA UNDERSOKNING - SWEDEN
 LABORATORIO NACIONAL DE ENERGIA E GEOLOGIA I.P. - PORTUGAL
 INSTITUTO GEOLOGIKON KAI METALLEYTIKON EREYNON - GREECE
 SOFIISKI UNIVERSITET SVETI KLIMENT OHRIDSKI - BULGARIA
 FACULTY OF ECOLOGY AND ENVIRONMENTAL SCIENCES - SERBIA
 MAGYAR FOLDTANI ES GEOFIZIKAI INTEZET - HUNGARY
 UNIVERSITY OF ZAGREB, FACULTY OF MINING, GEOLOGY AND PETROLEUM ENGINEERING - CROATIA
 INSTITUTO GEOLÓGICO Y MINERO DE ESPAÑA - SPAIN
 GEOLOGISCHE BUNDESANSTALT - AUSTRIA
 GAMTOS TYRIMŲ CENTRAS - LITHUANIA
 TALLINNA TEHNIKAULIKOOL - ESTONIA
 MIDDLE EAST TECHNICAL UNIVERSITY - TURKEY
 PANSTWOWY INSTYTUT GEOLOGICZNY - PANSTWOWY INSTYTUT BADAWCZY - POLAND
 INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE - BELGIUM
 BUNDESANSTALT FUR GEOWISSENSCHAFTEN UND ROHSTOFFE - GERMANY
 INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU GEOLOGIE SI GEOECOLOGIE MARINA-GEOECOMAR - ROMANIA
 CESKA GEOLOGICKA SLUZBA - CZECH REPUBLIC
 ASSOCIATION OF GEOPHYSICISTS AND ENVIRONMENTALISTS OF SERBIA – SERBIA
 STATNY GEOLOGICKY USTAV DIONYZA STURA, STATE GEOLOGICAL INSTITUTE OF DIONYZ ŠTÚR- SLOVAKIA

Project Description: The EU has made significant progress in CCS as a bridging technology for combating climate change, but this must now accelerate and be spread evenly throughout EU Member States and Associated Countries. In this context, CO2GeoNet, CO2NET EAST and EneRG are joining forces, pooling their expertise and building on their Networking experience to form CGS Europe, a unique concerted European reference point on CO2 storage.

Project Objectives: The objective of CGS Europe is to build a credible, independent and representative pan-European scientific body of expertise on CO2 geological storage that will: (1) create a durable networking of research capacity on CO2 storage in Europe, (2) liaise and coordinate its activities with other stakeholders, including the ZEP Technology Platform, (3) facilitate the large-scale demonstration and industrial deployment of CCS, (4) support the implementation of the EU Directive on the geological storage of CO2 and other regulatory regimes.

Profile of Slovak Participant/ -s: State Geological Institute of Dionyz Štúr performs the tasks of the State Geological Survey of the Slovak Republic. SGIDŠ activity is focused on geological research and exploration projects, creation and application of the information system in geology, registration, collection, evidence and publication of results of geological work carried out in the territory of the Slovak Republic. SGIDŠ provides independent expertise, lecturing, consulting and advisory activity and compiles input documents for state administration. The State Geological Institute of Dionyz Štúr is a state contributory organization supervised by the Ministry of Environment of the Slovak Republic.

The Institute was established in 1940. The SGIDS headquarters is located in Bratislava, while its regional centres are located in Spišská Nová Ves, Banská Bystrica and Košice. The State Geological Institute of Dionyz Štúr is a member of the international organization of geological surveys EuroGeoSurveys and GeoHealth.

SK Participant Project Cost: EUR 45 600

SK Participant EC Financial Contribution: EUR 40 660

Project Outcomes planned/real: CGS Europe will strive to compile and structure the existing research results, policy and regulations in a centralised knowledge repository to enable stakeholders to easily find pertinent information. Knowledge development will be ensured by the sharing of good practices, the assessment of research needs and the fostering of new research projects. Major effort will be dedicated to knowledge dissemination and capacity building, aiming and giving impartial and understandable information to the different stakeholders according to their specific needs in each country.

Slovak Participant's Role in Project: Development of knowledge repository database. Elaboration of key reports. Coordination of research activities and promotion of research groups within CGS Europe participants. Organisation of knowledge sharing workshop in Bratislava – "Other promising options for CO2 storage". Staff exchange programme for young scientists.

COTEVOS

Project ID: 608934
 Project Title: Concepts, Capacities and Methods for Testing EV systems and their interoperability within the Smartgrids
 Project website: <http://cotevos.eu/>
 Project Start Date: 2013-09-01
 Project End Date: 2016-02-29
 Project Total Cost: EUR 5 648 413.2
 Project EC Financial Contribution: EUR 4 351 777

Slovak participant Name: ZAPADOSLOVENSKA DISTRIBUCNA AS
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 Contact person email/ phone: Peter Sevce, peter.sevce@eon-slovensko.sk, +421 918 718 664
 Partners of the Consortium:

FUNDACION TECNALIA RESEARCH & INNOVATION - SPAIN
 NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK – TNO - NETHERLANDS
 POLITECHNIKA LODZKA - POLAND
 ETREL SVETOVANJE IN DRUGE STORITVE DOO - SLOVENIA
 FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.- GERMANY
 AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH - AUSTRIA
 ALTRA SPA - ITALY
 DANMARKS TEKNISKE UNIVERSITET - DENMARK
 RICERCA SUL SISTEMA ENERGETICO - RSE SPA - ITALY
 EUROPEAN DISTRIBUTED ENERGY RESOURCES LABORATORIES E.V. – GERMANY
 ZAPADOSLOVENSKA DISTRIBUCNA AS- SLOVAKIA

Project Description: In order to promote a widespread adoption of electric vehicles (EV) in Europe and to reduce the different regulatory, commercial or political barriers, it is imperative that EVs, Charging Points (CPs) and various systems needed to enable charging and other additional services are compatible to some extent.

EVs emerge as a great challenge for the grid infrastructure. During the past few years most OEMs have been producing new EV series, which slowly spread in the market. In parallel, intelligent systems of very different functionalities and technologies aim to open new markets of added value services.

The performance and interoperability of all these systems need to be assessed from different perspectives, including electric energy, communications and information management. In such a manner, the whole system will be able to offer charging and other services, which will allow the creation of new sustainable business models. COTEVOS considers all these needs, and verifies the functionalities that the different systems require to manage the EV charging and the associated smart grid infrastructure.

Project Objectives: COTEVOS aims to develop optimal structures and capacities to test the conformance, interoperability and performance of the different systems to be included in the infrastructure for smart charging of Electric Vehicles. Based on the partners' contrasted experience and a decade of collaboration around the facilities, standardization and research infrastructures for DER and aligned with ongoing standardization development under M/453, M/468 and M/490 (CENELEC SG-CG, E-Mobility Smart Charging WG among others), COTEVOS will address key issues such as cross-national transparency, interaction between grid infrastructure and vehicles and the operational reliability, while reducing the time-to-market of equipment, so that these will be available in line with the arrival of the electric vehicle. For that purpose, a number of on-going demo projects will be used as reference.

Profile of Slovak Participant/ -s: Západoslovenská distribučná, member of the ZSE Group, is an electricity distribution network operator (DSO). The company is responsible mainly for the distribution grid operation, connection of new energy generation sources and the quality of energy supply.



SK Participant Project Cost: EUR 185 712

SK Participant EC Financial Contribution: EUR 109 656

Project Outcomes planned/real: In order to promote the widespread adoption of electric vehicles (EV) in Europe and to reduce the different regulatory, commercial or political barriers, it is imperative that EVs, Charging Points (CPs) and all kind of systems needed to allow the charging and other additional services are compatible to some extent. COTEVOS focus on the interoperability of electromobility concept within the SmartGrid.

Slovak Participant's Role in Project: ZSE Group contributes its experience from the distribution grid operation, where new types of supply and demand streams occur. There are synergies between Emobility, SmartGrid and SmartMetering concepts, in which ZSE Group is able to provide experience gained in the daily operation. Specific knowledge from VIBRATE, Crossing Borders and Competence Centre is included. Via E.ON we are able to include the European view on the topic as well.

CPV4ALL

Project ID: 296014

Project Title: Novel CPV system fit for mass production, for electricity costs beyond grid parity and for applications in B2B, industrial and residential areas

Project website: -

Project Start Date: 2012-12-01

Project End Date: 2015-11-30

Project Total Cost: EUR 12 606 895.6

Project EC Financial Contribution: EUR 7 252 307

Slovak participant Name: NEWAYS SLOVAKIA A.S.

Slovak participant address: P. O. HVIEZDOSLAVA 791 23, 018 51 NOVA DUBNICA

Contact person email/ phone: Peter Cibulka, Phone: +421 42 4660, cibulka@neways-slovakia.sk

Partners of the Consortium:

VOESTALPINE METAL FORMING GMBH - AUSTRIA

NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK – TNO - NETHERLANDS

LEYBOLD OPTICS GMBH - GERMANY

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE

SUNCYCLE TECHNOLOGY BV - NETHERLANDS

STICHTING KATHOLIEKE UNIVERSITEIT – NETHERLANDS

NEWAYS SLOVAKIA A.S. - SLOVAKIA

Project Description: CPV4ALL proposes an innovative solution for concentration-based photovoltaic electricity beyond grid parity kWh prices and is oriented on short term results. CPV4ALL aims towards large-scale replication in 2015 so that the demonstrated technologies will quickly lead to market deployment and thus significantly contribute to the EU energy and climate change policy (20-20-20 targets by 2020).

Project Objectives: CPV4ALL focuses on demonstrating and validating, at industrial scale, the production technology for the components and the assembly technology for the CPV modules and system. The developed CPV systems itself will undergo extensive evaluation programmes at test sites and in real situations by CEA-INES. In order to realize the concepts and objectives described in the previous sections, a structure of six work packages has been defined. WP1 is focused on RTD activities and deals with the development and optimisation of the system components. In WP2-3-4 the necessary demonstration activities will be defined and developed. WP2 is dedicated to the demonstration of a pilot line for the manufacturing of components and module assembly for volume > 100 000 modules/yr, while WP3 focuses on the demonstration of high-throughput manufacturing processes of critical system components for volume > 1 million units/yr.

Profile of Slovak Participant/ -s: Producer of industrial electronics including the development of production technology and the management of New Product Introductions (NPI).



SK Participant Project Cost: EUR 1 343 912

SK Participant EC Financial Contribution: EUR 673 205

Project Outcomes planned/real: A production line for 100 000 pcs (first phase) and 1 000 000 pcs (second phase) of solar concentrator and inverter units.

Slovak Participant's Role in Project: To develop the production line that can produce the 100K and 1M pieces including the test equipment and procedures.



ECCOFLOW

Project ID: 241285

Project Title: Development and field test of an efficient YBCO Coated Conductor based Fault Current Limiter for Operation in Electricity Networks

Project website: <http://www.eccoflow.org/>

Project Start Date: 2010-01-01

Project End Date: 2013-12-31

Project Total Cost: EUR 4 637 451

Project EC Financial Contribution: EUR 2 696 365

SLOVAK PARTICIPANT 1

Slovak participant Name: ELEKTROTECHNICKÝ USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Electrical Engineering, Slovak Academy of Sciences

Slovak participant address: Dúbravská 9, 841 04 BRATISLAVA

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SLOVAK PARTICIPANT 2

Slovak participant Name: VYchodoslovenská energetika a.s.

Slovak participant address: Mlynská 31, 040 01 KOŠICE

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Partners of the Consortium: NEXANS FRANCE S.A.S - FRANCE

AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS - SPAIN

ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE - SWITZERLAND

VATTENFALL RESEARCH AND DEVELOPMENT AB - SWEDEN

RWE RHEIN-RUHR NETZSERVICE - GERMANY

L'AIR LIQUIDE S.A - FRANCE

ENDESA DISTRIBUCION ELECTRICA S.L - SPAIN

NEXANS SUPERCONDUCTORS GMBH - GERMANY

RICERCA SUL SISTEMA ENERGETICO - RSE SPA - ITALY

FUNDACION TECNALIA RESEARCH & INNOVATION - SPAIN

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE

KARLSRUHER INSTITUT FUER TECHNOLOGIE - GERMANY

AZA RETI ELETTRICHE SPA - ITALY

ELEKTROTECHNICKÝ USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF ELECTRICAL ENGINEERING, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: Since the discovery of high-temperature superconductors (HTS) in 1986 scientists all over the world have been working on understanding and improving the superconducting materials and exploring their possible technological applications. Several materials have been further developed and tested for different applications. While low-temperature superconductors (LTS) are facing established markets in the medical sector and in high energy physics research, only very few HTS based devices so far have reached the pre-commercial development stage. The prospects for HTS devices are predominantly seen in the energy sector and among the most promising future applications are superconducting fault current limiters (SFCL), electric power transmission cables, electric motors and magnetic levitation devices. A superconducting fault current limiter (SFCL) is a unique device which is unparalleled in conventional technology. Among all High Temperature Superconducting (HTS) power applications the SFCL is considered the most promising device in terms of commercialization prospects today.

Project Objectives: The objective of ECCOFLOW is to develop and test an SFCL based on an improved HTS material: the coated conductor YBCO tape which has just become available with a suitable performance. Due to its higher critical current density with strongly reduced AC losses and its improved thermo-mechanical properties it offers great advantages over existing materials with respect to operating costs and reliability. From a user point of view, the SFCL is highly attractive, as it provides not only a solution on how to deal with the growing level and incidence of fault currents but also facilitates innovative planning of electricity grids. The significant improvements with respect to the new device will result in reduced reinvestment needs and an optimised usage of existing grids, and therefore in lower operating costs. Thus, the introduction of a coated conductor SFCL would enhance the performance, stability and efficiency of energy networks and contribute to the security of supply.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: The Institute of Electrical Engineering (IEE SAS) was established in 1953 as a research institution. Researchers of the Institute implement international projects supported by the EU, projects supported by ERDF, and national projects supported by APVV and VEGA agencies. The Institute is focused on the research and development of semiconductor, superconductor, oxide and magnetic materials and devices, including theoretical and experimental study of their structural, optical, transport properties and devices for the information technology and power engineering. The semiconductor research is focused on future Si-based memory devices, technology and study of GaN, GaAs, and InP quantum heterostructures. These activities led to several outputs, e.g. capacity sensors, advanced sensors of magnetic field, x-ray detectors etc. The superconductor research is centred on technology and testing of superconducting MgB2 tapes and conductors, developed for power engineering devices such as transport cables, transformers and superconducting magnets.

SK Participant Project Cost: EUR 139 840

SK Participant EC Financial Contribution: EUR 104 880

Project Outcomes planned/real: The project aimed at developing a superconducting fault current limiter (SFCL) based on coated conductor YBCO tape (cc-tape) or 2nd Generation HTS tape. The SFCL provides a solution to the increasing incidence and level of fault currents and will contribute to improved performance, stability and efficiency of electricity grids. It can be applied as a new tool for grid operation and will enhance the flexibility for further grid planning. SFCL are considered to be the most attractive superconducting devices as they offer unparalleled features compared to conventional techniques such as automatic ultrafast and effective current limitation, no external trigger (fail safe), rapid self-recovery and negligible impedance during operation. In contrast to conventional solutions, resistive type SFCLs are also suitable for higher voltage levels. The SFCL prototypes based on BSCCO material which have been developed thus far are exhibiting significant AC-losses at higher currents which oppose their commercial introduction. Today, the availability of cc-tape in longer lengths at reasonable cost makes a commercial breakthrough of FCL possible with unique features such as compactness, short recovery-time, low AC-losses. Leading industrial and academic institutions from Europe have teamed up to design, build, and test the first full 3-phase cc-tape FCL worldwide. The device had to be submitted to long-term testing in the medium voltage grid. A strong demand for this device is emphasized by the large number of electric utilities participating as partner. The device was designed, manufactured and tested in a certified laboratory in order to obtain approval for being connected to the public electricity grid.

Slovak Participant's Role in Project: Activities of the project were carried out in the Department of Superconductor Physics, which is a leading group in the field of superconductivity applications in AC power devices, such as transmission cables, transformers and current limiters. The group successfully runs the Centre of Excellence project "Applied Superconductivity Training and Research Advanced Centre" (ENK6-CT-2002-80658) and the Marie-Curie Research and Training Network "Nanoengineered Superconductor for Power Applications" (MRTN-CT-2006-035619).

The group addressed the research topic of the optimisation of superconducting devices with regard to the AC loss. Simulation techniques particularly suitable for the investigation of electromagnetic properties of hard superconductors were utilized and further modified to match the requirements of recent progress in the field of superconducting materials. Test structures and small models were designed and manufactured to enable experimental verification of theoretical predictions. Novel experimental techniques have been developed to determine the AC dissipation and heating of the limiter components. The goal of reaching significant reduction of AC loss was reached.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 161 000

SK Participant EC Financial Contribution: EUR 83 500

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EU-GUGLE

Project ID: 314632

Project Title: European cities serving as Green Urban Gate towards Leadership in sustainable Energy

Project website: <http://eu-gugle.eu/>

Project Start Date: 2013-04-01

Project End Date: 2018-03-31

Project Total Cost: EUR 30 140 290

Project EC Financial Contribution: EUR 16 785 372

SLOVAK PARTICIPANT 1

Slovak participant Name: HLAVNE MESTO SLOVENSKEJ REPUBLIKY BRATISLAVA, City of Bratislava

Slovak participant address: PRIMACIALNE NAMESTIE 1, 814 99 BRATISLAVA

Contact person email/ phone: Mr. Milan Oršula, orsula@bratislava.sk, +421 2 593 561 11

SLOVAK PARTICIPANT 2

Slovak participant Name: SLOVENSKA RADA PRE ZELENE BUDOVY, Slovak Green Building Council

Slovak participant address: ULICA VAJNORSKA 8 A, 831 04 BRATISLAVA

Contact person email/ phone: Mr. Roman Bahnik, roman.bahnik@skgbc.org, +421903237732

SLOVAK PARTICIPANT 3

Slovak participant Name: TECHNICKY A SKUSOBNY USTAV STAVEBNY n.o., Building Testing and Research Institute

Slovak participant address: STUDENA 3, 821 04 BRATISLAVA

Contact person email/ phone: Mr. Lubos Trnovsky, trnovsky@tsus.sk, +421 2 49228130

Partners of the Consortium:

NATIONAL RENEWABLE ENERGY CENTER - SPAIN

CITY OF VIENNA - AUSTRIA

BOKU UNIVERSITY OF NATURAL SCIENCES AND LIFE SCIENCES - AUSTRIA

WIENER WOHNEN - AUSTRIA

THE CITY OF AACHEN - GERMANY

STADTWERKE AACHEN - GERMANY

GEWOGA AACHEN - GERMANY

TAMPERE - FINLAND

TECHNICAL RESEARCH CENTRE OF FINLAND, VTT - FINLAND

MILAN - ITALY

ALER - ITALY

POLITECNICO MILANO - ITALY

SESTAO BERRI 2010 - SPAIN

EVE - BASQUE ENERGY BOARD - SPAIN

GREENOVATE! EUROPE IC CONSULENTEN - GERMANY

GAZIANTEP METROPOLITAN MUNICIPALITY - TURKEY

CITY OF GOTHENBURG - SWEDEN

ZABALA INNOVATION CONSULTING - SPAIN

SP TECHNICAL RESEARCH INSTITUTE OF SWEDEN - SWEDEN

HLAVNE MESTO SLOVENSKEJ REPUBLIKY BRATISLAVA, CITY OF BRATISLAVA - SLOVAKIA

SLOVENSKA RADA PRE ZELENE BUDOVY, SLOVAK GREEN BUILDING COUNCIL- SLOVAKIA

TECHNICKY A SKUSOBNY USTAV STAVEBNY N.O., BUILDING TESTING AND RESEARCH INSTITUTE- SLOVAKIA

Project Description: The EU-GUGLE project aims to demonstrate the feasibility of nearly-zero energy building renovation models in view of triggering large-scale, Europe-wide replication in smart cities and communities by 2020.

Taking on the challenge of sustainable renovation in urban areas, the cities of Vienna (AT), Aachen (DE), Milan (IT), Sestao (ES), Tampere (FI) and Bratislava (SK) have committed to renovating a total of 226,000m² of living space during the 5 years of the project, with the objective of achieving 40 to 80% primary energy savings per pilot district while increasing the share of renewable energy sources by 25% by 2018. Gothenburg (SE) and Gaziantep (TR) will take part in the 5-year project as associated cities and will be expected to start smart renovation activities during project's lifetime.

Project Objectives: To reach this objective, the 8 pilot cities will join efforts to combine the latest research results relevant to smart renovation of groups of buildings at district level and use this knowledge to implement a balanced mix of technical, socio-economic and financial solutions adapted to local needs. All aspects of the renovation process will be monitored and evaluated, from the energy performance of the renovated buildings to the financing schemes chosen by the municipalities.

The project is part of the Smart Cities and Communities Initiative of the European Commission, which aims to foster the EU-wide dissemination of the most efficient models and strategies for helping cities and communities to achieve a 40% greenhouse gas emissions reduction by 2020.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 2 229 160

SK Participant EC Financial Contribution: EUR 1 166 220

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 99 576

SK Participant EC Financial Contribution: EUR 79 026

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 3

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 2 189 880

SK Participant EC Financial Contribution: EUR 1 128 440

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

GEOCOM

Project ID: 239515

Project Title: Geothermal Communities – demonstrating the cascading use of geothermal energy for district heating with small scale RES integration and retrofitting measures

Project website: <http://www.geothermalcommunities.eu>

Project Start Date: 2010-01-01

Project End Date: 2014-12-31

Project Total Cost: EUR 11 543 165.32

Project EC Financial Contribution: EUR 3 513 703.8

SLOVAK PARTICIPANT 1

Slovak participant Name: BYSPRAV Ltd.

Slovak participant address: Nová Doba 924/13, 924 01 GALANTA

Contact person email/ phone: Mr. Zoltan Horvath, zoltan.horvath@bysprav.sk, +421 3 17 804 344

SLOVAK PARTICIPANT 2

Slovak participant Name: GALANTATERM SPOL. S.R.O.

Slovak participant address: VODÁRENSKÁ UL. 1608/1, 924 01 GALANTA

Contact person email/ phone: PhDr. Marcela Mazsárova, marcela.mazsarova@galanta.sk, 0915 785 012

SLOVAK PARTICIPANT 3

Slovak participant Name: MESTO GALANTA, Galanta City

Slovak participant address: Mierové námestie 940/1, 924 18 GALANTA

Contact person email/ phone: Mr. Zoltan Horvath, zoltan.horvath@bysprav.sk, +421 3 17 804 344

SLOVAK PARTICIPANT 4

Slovak participant Name: SLOVENSKA INOVACNA A ENERGETICKA AGENTURA, Slovak Innovation and Energy Agency

Slovak participant address: Bajkalska 27, 827 99 BRATISLAVA

Contact person email/ phone: Miloš Stašík, milos.stastik@siea.gov.sk; +421 2 5824 8416

Partners of the Consortium:

GEONARDO ENVIRONMENTAL TECHNOLOGIES LTD - HUNGARY

MORAHALOM VAROS ONKORMANYZATA - HUNGARY

MUNICIPALITY OF KOCANI - THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA

UNIVERSITY OF SZEGED - HUNGARY

MACEDONIAN GEOTHERMAL ASSOCIATION (MAGA) - THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA

SOFTECH ENERGIA TECNOLOGIA AMBIENTE SRL - ITALY

CONSORZIO PER LO SVILUPPO DELLE AREE GEOTERMICHE - ITALY

POLSKA ACADEMIA NAUK INSTYTUT GOSPODARKI SUROWCAMI MINERALNYMI I ENERGIA - POLAND

COMUNE DI MONTIERI - ITALY

GMINA MSZCZONOW - POLAND

CITY ASSEMBLY OF SUBOTICA - SERBIA

PRIMARIA SACUIENI - ROMANIA

BYSPRAV- SLOVAKIA

GALANTATERM SPOL. S.R.O. - SLOVAKIA

GALANTA CITY- SLOVAKIA

SLOVENSKA INOVACNA A ENERGETICKA AGENTURA, SLOVAK INNOVATION AND ENERGY AGENCY - SLOVAKIA

Project Description: Central Eastern European countries have exceptional geothermal resources at their disposal. These resources are either unexploited due to the lack of technological know-how or their utilisation is carried out in an unsustainable way; geothermal district heating projects lack the energy efficiency component and once used, the thermal water is not reinjected but released into surface waters instead.

Project Objectives: Geothermal Communities will demonstrate best available technologies in the use of geothermal energy combined with innovative energy-efficiency measures in three different pilot sites (Hungary, Slovakia and Italy). Furthermore, the project will integrate a large number of cities as project partners (from Serbia, Romania, Poland and Italy) that either already have ongoing geothermal systems that need the adoption of new technologies (e.g. Sacueni, Romania) or they would like to implement new systems from scratch with the help of the project partners (e.g. Subotica, Serbia). In addition to the demonstration component through the parallel implementation of three ambitious development works there is also a strong complementary component of research focusing on making geothermal projects more cost efficient and technologically sound. Results of the project activities will be disseminated via straightforward dissemination actions combined with a training programme organised for municipal-level decision makers. Finally, the Mayors' Geothermal Club will be set up and will continue operating even after the EC-funded period as a permanent network of city mayors and municipal-level decision makers who are interested in the sustainable utilisation of geothermal energy.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Bysprav Ltd. The sole shareholder of the company is the Municipality of Galanta. The main role of the company is to coordinate and perform the retrofitting and RES integration activities of the residual dwellings, as Bysprav is designated by law to be the managing body of these buildings.

SK Participant Project Cost: EUR 635 273

SK Participant EC Financial Contribution: EUR 322 466.5

Project Outcomes planned/real: The project consists of four main demonstration activities:

1. Retrofitting of dwellings and RES integration,
2. Retrofitting of the elementary school and RES integration,
3. Reinjection borehole research and full documentation,
4. Connection of the gas heating plant to geothermal energy

Slovak Participant's Role in Project: Bysprav Ltd. is responsible for a retrofitting and a system integration measure of this project. Within this project, 3 multi-storey houses heated by our geothermal source were fully retrofitted and a photovoltaic system was installed on each retrofitted building. (Each house has 32 dwellings, so the total number of retrofitted dwellings is 96, the facade, roof, ceiling, doors and windows were retrofitted).

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Galantaterm Ltd. Galanta, established in 1995, is one of the first companies in Slovakia created in order to use the geothermal energy for heating and for producing domestic hot water.

SK Participant Project Cost: EUR 356 873

SK Participant EC Financial Contribution: EUR 185 711.5

Project Outcomes planned/real: The project consists of four main demonstration activities:

1. Retrofitting of dwellings and RES integration,
2. Retrofitting of the elementary school and RES integration,
3. Reinjection borehole research and full documentation,
4. Connection of the gas heating plant to geothermal energy.

Slovak Participant's Role in Project: 1) Preparation of comprehensive documentation, including a feasibility study, of the reinjection well; 2) Connection of new housing estates, biotechnical accessories production plant, and a retirement home to a recent geothermal heating system.

SLOVAK PARTICIPANT 3

Profile of Slovak Participant/ -s: Municipality of Galanta - Galanta is an important administrative and cultural centre of the district of the same name. It is the seat of the bodies of state administration, and a centre of trade and services.

SK Participant Project Cost: EUR 292 004

SK Participant EC Financial Contribution: EUR 154 837

Project Outcomes planned/real: The project consists of four main demonstration activities:

1. Retrofitting of dwellings and RES integration,
2. Retrofitting of the elementary school and RES integration,
3. Reinjection borehole research and full documentation,
4. Connection of the gas heating plant to the geothermal energy.

Slovak Participant's Role in Project: 1) Insulation and window replacement at the school building, which is owned by the city Galanta; 2) Installing a small-scale photovoltaics appliance (4,86,kWp, 4761 kWh) on the roof of the school; 3) Replace the windows of the nursery (activity not yet completed).

SLOVAK PARTICIPANT 4

Profile of Slovak Participant/ -s: The Slovak Innovation and Energy Agency (SIEA) is a contributory organization of the Ministry of Economy of the Slovak Republic. Initially, it formed a part of the Slovak energy inspection. In 1999, it became independent on the ground of the decision of the Minister of Economy of the Slovak Republic. It is a recognized independent expert authority in the energy sector. It performs consulting, training and implementation of support programmes in this area. Since 2007, it also performs tasks related to supporting the increase in innovation performance of enterprises. For ten years, SIEA has been implementing measures supported by the Structural Funds of the European Union (EU). In 2014, it became the sole implementing agency of the Ministry of Economy of the Slovak Republic.

SK Participant Project Cost: EUR 132 117

SK Participant EC Financial Contribution: EUR 96 147



Project Outcomes planned/real: The Geothermal Communities project lines up the best available technologies in the use of geothermal energy combined with innovative energy-efficiency measures and integration of other renewable energy sources at three different pilot sites (Hungary, Slovakia and Italy). In addition to the demonstration component through the parallel implementation of three ambitious development works, there is also a strong complementary component of research focusing on making geothermal projects more cost-efficient and technologically sound.

Slovak Participant's Role in Project: SIEA is a lead partner for WP 7 - Monitoring. SIEA Department for International Cooperation and Projects is responsible for the implementation of projects funded through various European community programmes.

GEO THERMAL ERA NET

Project ID: 291866

Project Title: Geothermal ERA NET

Project website: <http://www.geothermaleranet.is/>

Project Start Date: 2012-05-01

Project End Date: 2016-04-30

Project Total Cost: EUR 2 299 651.46

Project EC Financial Contribution: EUR 1 999 958

Slovak participant Name: MINISTERSTVO SKOLSTVA SLOVENSKEJ REPUBLIKY,
Ministry of Education, Science, Research and Sport

Slovak participant address: Stromová 1, 813 30 Bratislava

Contact person: Dr. Marta Cimbáková, email/ phone: marta.cimbakova@minedu.sk,
+421259102614

Partners of the Consortium:

ORKUSTOFNUN - ICELAND

MINISTERIE VAN ECONOMISCHE ZAKEN, LANDBOUW EN INNOVATIE – NETHERLANDS

FEDERAL DEPARTMENT FOR ENVIRONMENT TRANSPORTS ENERGY AND
COMMUNICATION - SWITZERLAND

CONSIGLIO NAZIONALE DELLE RICERCHE – ITALY

FORSCHUNGSZENTRUM JUELICH GMBH – GERMANY

AGENCE DE L'ENVIRONNEMENT ET DE LA MAITRISE DE L'ENERGIE – FRANCE

THE ICELANDIC CENTRE FOR RESEARCH – ICELAND

TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU – TURKEY

MAGYAR FOLDTANI ES GEOFIZIKAI INTEZET – HUNGARY

MINISTRY OF EDUCATION, SCIENCE, RESEARCH AND SPORT- SLOVAKIA

Project Description: The proposed ERA-NET will deepen the cooperation of national program owners and administrators and thus be an enabler for the integration of national research and development agendas into a coherent European geothermal R&D program. Countries participating in the first instance in this ERA NET are chosen on the basis of their ambitions to include geothermal energy into their goals for 2020 and 2050 on the reduction of CO₂ emissions. A cornerstone of the implementation will be the broadening of this ERA NET partnership by including additional European national program owners to ensure the appropriate geographic balance and complementarity.

Project Objectives: The Geothermal ERA-NET will focus on the utilization of geothermal energy, from direct heating use up to higher enthalpy resources and their corresponding use (e.g. power generation). To ensure appropriate linkages to related R&D activities (renewable heating and cooling via ground storage heat pumps, power distribution and transmission) the interface with related ERA-NETs such as ERACOBUILD or SmartGrids will be maintained to avoid overlap. The ERA NET will include technical and non-technical issues as long they can be considered to be exclusively applied to the support of geothermal energy utilization.

A significant instrument will be the EERA Joint Programme on Geothermal Energy whose aim it is to contribute via research and development to the renewable energy targets for 2020 and beyond in member and associated states. Coordination activities will focus on implementation of commonly agreed objectives and joint activities and funding of joint transnational research actions.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 141 600

SK Participant EC Financial Contribution: EUR 126 260

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

GHG2E

Project ID: 268194

Project Title: GREENHOUSE GAS RECOVERY FROM COAL MINES AND UNMINEABLE
COALBEDS AND CONVERSION TO ENERGY

Project website: <http://www3.imperial.ac.uk/>

Project Start Date: 2011-10-01

Project End Date: 2015-03-31

Project Total Cost: EUR 2 447 811

Project EC Financial Contribution: EUR 1 635 775

Slovak participant Name: HORNONITRIANSKE BANE PRIEVIDZA AS

Slovak participant address: MATICE SLOVENSKEJ 10, 971 01 PRIEVIDZA

Contact person email/ phone: Mr. Stanislav Paulik, spaulik@hbp.sk,
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Partners of the Consortium:

IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE - UNITED KINGDOM

TROLEX LIMITED - UNITED KINGDOM

CHINA COAL INFORMATION INSTITUTE - CHINA

FORMAC ELECTRONICS LTD - UNITED KINGDOM

INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR - INDIA

CHINA PINGMEI SHENMA ENERGY AND CHEMICAL GROUP CO LTD - CHINA

BEIJING SINDICATUM CLEAN ENERGY TECHNOLOGY & SERVICES COMPANY LTD -
CHINA

CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD - INDIA

PREMOGOVNIK VELENJE DD - SLOVENIA

HENAN POLYTECHNIC UNIVERSITY - CHINA

NORTH CHINA INSTITUTE OF SCIENCE AND TECHNOLOGY - CHINA

HORNONITRIANSKE BANE PRIEVIDZA AS- SLOVAKIA

Project Description: GHG2E proposes to assist developing strategies to recover methane from coal mines and use it as energy source in emerging economies, such as China and India.

Project Objectives: Coal mining and utilisation results in release of significant amounts methane and represent an important threat to the fight against climate change. Coal Mine Methane drainage processes can be set up to recover methane from the emissions during coal production. Methane can also be extracted from virgin coal seams through primary and enhanced coalbed methane recovery. The main objective of the proposed research project is to contribute to the global GHG emissions reduction objective by addressing the key challenges facing the industry and emerging economies which also are major coal mining countries worldwide.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 253 520.4

SK Participant EC Financial Contribution: EUR 130 480.2

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

GLYFINERY

Project ID: 213506

Project Title: Sustainable and integrated production of liquid biofuels, bioenergy and green chemicals from glycerol in biorefineries

Project website: www.glyfinery.net

Project Start Date: 2008-03-01

Project End Date: 2012-02-29

Project Total Cost: EUR 4 973 221

Project EC Financial Contribution: EUR 3 754 806

Slovak participant Name: MEROCO A.S.

Slovak participant address: Trnavska cesta, 92041 LEOPOLDOV

Contact person email/ phone: Mr. Dusan Harustiak, harustiak@meroco.sk, +421337352150

Partners of the Consortium:

Technical university of Denmark - Denmark

BioGasol - Denmark

A&A Biotechnology - Poland

ProChimia Surfacees - Poland

Institute for Energy and Environmental Research - Germany

MEROCO A.S. - SLOVAKIA

Project Description: The EU target to increase the use of renewable energy carriers in the transportation sector in the coming years has already started to boost the production of biodiesel from rapeseed and other vegetable oils. This is leading to an immense increase in the production of glycerol, which is an unavoidable by-product from the esterification process. Since the volume of the glycerol-byproduct has already started to exceed the current market need, the biodiesel producers are requesting new methods for sustainable glycerol management.

Project Objectives: The GLYFINERY project is targeted to development of a novel technology based on biological conversion of the glycerol by-product into known and new, advanced liquid biofuels, bioenergy and valuable biochemicals in an integrated biorefinery concept. Implementation of the glycerol bioprocessing line into the biodiesel plant will improve the economics of the biodiesel biorefinery by enhanced energy conversion efficiency of the traditional raw materials and by generating valuable, highly demanded bioproducts. The GLYFINERY project will achieve the aim of the highly efficient process scheme through a multidirectional effort using new biocatalysts tailored by genetic modification for specific conversion routes, highly efficient fermentation processes for maximum possible conversion of glycerol into the target products, highly efficient methods for product recovery and the overall process integration.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 59 400

SK Participant EC Financial Contribution: EUR 29 700

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MACPLUS

Project ID: 249809

Project Title: Component Performance-driven Solutions for Long-Term Efficiency Increase in Ultra Supercritical Power Plants - MACPLUS

Project website: <http://macplusproject.eu/>

Project Start Date: 2011-01-01

Project End Date: 2015-06-30

Project Total Cost: EUR 18 204 522

Project EC Financial Contribution: EUR 10 704 675

Slovak participant Name: VYSKUMNY USTAV ZVARACSKY - PRIEMYSELNY INSTITUT SR, Welding Research Institute - Industrial Institute of SR

Slovak participant address: RACIANSKA 71, 83259 BRATISLAVA

Contact person email/ phone: Mrs. Anna Hambalkova, hambalkovaa@vuz.sk, +421915751704

Partners of the Consortium:

CENTRO SVILUPPO MATERIALI SPA - ITALY

RWE POWER AG - GERMANY

DANMARKS TEKNISKE UNIVERSITET - DENMARK

TECHNISCHE UNIVERSITAET GRAZ - AUSTRIA

FORSCHUNGSZENTRUM JUELICH GMBH - GERMANY

FOSTER WHEELER ENERGIA OY - SUOMI/FINLAND

FLAME SPRAY HUNGARY KFT - HUNGARY

TEKNOLOGIAN TUTKIMUSKESKUS VTT - SUOMI/FINLAND

LOUGHBOROUGH UNIVERSITY - UNITED KINGDOM

TUV RHEINLAND WERKSTOFFPRUFUNG GMBH - GERMANY

ENDESA GENERACION SA - SPAIN

UNIVERSITAET STUTTGART - GERMANY

E.ON NEW BUILD & TECHNOLOGY LIMITED - UNITED KINGDOM

KUNGLIGA TEKNISKA HOEGSKOLAN - SWEDEN

FUNDACIÓN CIUDAD DE LA ENERGÍA - SPAIN

DOOSAN POWER SYSTEMS LIMITED - UNITED KINGDOM

COGNE ACCIAI SPECIALI SPA - ITALY

GOODWIN STEEL CASTINGS LTD - UNITED KINGDOM

TUBACEX TUBOS INOXIDABLES SA - SPAIN

FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY

ALSTOM LTD - UNITED KINGDOM

NPL MANAGEMENT LIMITED - UNITED KINGDOM

IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE - UNITED KINGDOM

VYSKUMNY USTAV ZVARACSKY - PRIEMYSELNY INSTITUT SR, WELDING RESEARCH INSTITUTE - INDUSTRIAL INSTITUTE OF SR- SLOVAKIA

Project Description: The intelligent and cost effective use of CCS technologies requires new strategies to increase the net efficiency of coal fired power plants. Among them, the most promising are summarised as below:

- Increase working steam temperature and pressure in new USC power plants (350-370 bar, 700/720°C minimum), and hence increase the severity of fireside operating conditions,

- Promote clean coal technologies based (for example) on oxy-combustion + co-firing technologies (by a continuous increase of biomass % in mixture with coal), in order to reduce CO2 capture losses and the amount of CO2 to be captured and stored.

Project Objectives: The project aims to increase the net efficiency of coal-fired power plants by increasing the performance and reliability of some critical components identified as follows:

- refractory materials of the combustion chamber (especially for oxy-fuel applications)

- headers and pipeworks in existing coal-fired USC power plants (F/M steels), developing countermeasures to weld Type IV cracking phenomena

- superheaters in high temperature oxidation / hot corrosion-erosion environments, while reducing stress relaxation cracking (SRC) phenomena in welded joints of thick-walled pipes made of Ni-base alloys

- boiler tubes coated with metallic alloys able to withstand co-combustion conditions (high temperature oxidation/hot corrosion, erosion-adhesion and wear).

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 470 000

SK Participant EC Financial Contribution: EUR 353 850

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

NEXTGENPOWER

Project ID: 249745

Project Title: Meeting the Materials and Manufacturing Challenge for Ultra High Efficiency PF Power Plants with CCS

Project website: <http://www.nextgenpower.eu/>

Project Start Date: 2010-05-01

Project End Date: 2014-10-31

Project Total Cost: EUR 10 262 367

Project EC Financial Contribution: EUR 5 996 880

Slovak participant Name: VYSKUMNY USTAV ZVARACSKY - PRIEMYSELNY INSTITUT SR, Welding Research Institute - Industrial Institute of SR

Slovak participant address: RACIANSKA 71, 83259 BRATISLAVA

Contact person email/ phone: Dr. Peter Brziak, brziakp@vuz.sk, +421 915 751 724

Partners of the Consortium:

KEMA NEDERLAND BV - NETHERLANDS

ALSTOM POWER LTD - UNITED KINGDOM

DOOSAN BABCOCK ENERGY LIMITED - UNITED KINGDOM

E.ON BENELUX NV - NETHERLANDS

MONITOR COATINGS LTD - UNITED KINGDOM

VALTION TEKNILLINEN TUTKIMUSKESKUS - SUOMI/FINLAND

ALSTOM (SCHWEIZ) AG - SWITZERLAND

SAARSCHMIEDE GMBH FREIFORMSCHMIEDE* - GERMANY

TECHNISCHE UNIVERSITAET DARMSTADT - GERMANY

AUBERT & DUVAL SAS - FRANCE

GOODWIN STEEL CASTINGS LTD - UNITED KINGDOM

CRANFIELD UNIVERSITY - UNITED KINGDOM

VYSKUMNY USTAV ZVARACSKY - PRIEMYSELNY INSTITUT SR, WELDING RESEARCH INSTITUTE - INDUSTRIAL INSTITUTE OF SR- SLOVAKIA

Project Description: Carbon Capture and Sequestration has become an important technology to comply with the CO2 reduction targets set by the EC. However CCS has the drawback that the electrical efficiency of the coal fired power plant will drop significantly. To overcome this drawback, one has to increase the base efficiency of the power plant or increase the biomass co-firing share as this is a CO2 neutral energy source. Increasing the base efficiency of new plants or increasing the share of biomass are both limited due to quality of the present available coatings and materials. The presently used materials in the boiler, interconnecting pipework and steam turbine can not withstand operating temperatures higher than 620°C. Live steam temperatures higher than 750°C are needed to compensate the efficiency loss caused by CCS and achieve a net efficiency of 45%.

Project Objectives: NEXTGENPOWER is a unique integrated project as it will demonstrate new alloys and coatings in boiler, turbine and the interconnecting pipework, which can be integrated in existing and new power plants. This proposal is aimed at the highest priority challenges for new plants and will focus on selecting and demonstrating precipitated hardened Ni alloys, and advanced protective coatings. The challenges for NEXTGENPOWER are to demonstrate that we can: overcome the limited creep and fatigue properties of state-of-the-art materials, overcome boiler fireside corrosion of high temperature parts, overcome steam-side oxidation and non-allowable thermal cycling stresses of the interconnecting pipe work using Ni alloys, manufacture steam turbine components in precipitation hardened Ni alloy steam turbine parts.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 335 600

SK Participant EC Financial Contribution: EUR 251 700

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SETATWORK

Project ID: 219009

Project Title: Sustainable Energy Technology at Work: Thematic Promotion of Energy Efficiency and Energy Saving Technologies in the Carbon Markets

Project website: <http://www.setatwork.eu>

Project Start Date: 2008-09-01

Project End Date: 2010-10-31

Project Total Cost: EUR 1 159 215.24

Project EC Financial Contribution: EUR 999 972

Slovak participant Name: Energy Centre Bratislava

Slovak participant address: AMBROVA 35, 83101 BRATISLAVA

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Partners of the Consortium:

ENERGY CONSULTING NETWORK A/S - DENMARK

INSTITUTO DE ENGENHARIA MECÂNICA - POLO IST - PORTUGAL

KANENERGI SWEDEN AB - SWEDEN

SOFIA ENERGY CENTRE - BULGARIA

ETA ENERGIA TRASPORTI AGRICOLTURA SRL - ITALY

THE ENERGY AND RESOURCES INSTITUTE - INDIA

ASESORIAS PROFESIONALES P. LEHUEDE LTDA. - CHILE

ECOFYS POLSKA SP. Z O.O. - POLAND

CENTER FOR ENERGY ENVIRONMENT RESOURCES DEVELOPMENT - FOUNDATION FOR INTERNATIONAL HUMAN RESOURCE DEVELOPMENT - THAILAND

CPL SCIENTIFIC PUBLISHING SERVICES LTD - UNITED KINGDOM

CONFEDERATION OF DANISH INDUSTRIES - DENMARK

KEWOG STADTBAU GMBH - GERMANY

ZHEJIANG ENERGY RESEARCH INSTITUTE - CHINA

GUANGZHOU INSTITUTE OF ENERGY CONVERSION, CHINESE ACADEMY OF SCIENCE - CHINA

ENERGY CENTRE BRATISLAVA - SLOVAKIA

Project Description: The expected impact of the action is to facilitate the fulfilment of EU's climate & energy policy goals and at the same time exploiting EU RTD and commercial aspects of the carbon market development. It will lead to initiation of a number of specific projects in industry sectors and provide comprehensive dissemination on tools and examples to broad target groups.

Project Objectives: The technology focus of SETatWork will be on energy efficiency and polygeneration in the industry sector, building on the experience obtained under the T@W project. While the continuity is ensured by the involvement of many of the same partners, the industry dimension of the project has been strengthened by the direct participation of industry associations. The overall objective of the SETatWork proposal is to undertake thematic promotion of energy efficiency and saving technologies in industry sectors connected with the carbon markets Core actions are:

- Identification of concrete projects in ETS Companies (WP3)
- Matchmaking events bringing market actors together for project realization (WP4)
- Parallel project identification and match-making at CDM markets in Asia and Latin America for the benefit of EU stakeholders
- Promotion: Website and newsletter (WP5)
- Training of EU industry based in need assessment. Improving competences and awareness on energy efficiency technology options and CO2 handling in the industry (WP5)

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 55 167.6

SK Participant EC Financial Contribution: EUR 49 191.11

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SUPRAPOWER

Project ID: 308793

Project Title: SUPERconducting, Reliable, lightweight, And more POWERful offshore wind turbine

Project website: <http://www.suprapower-fp7.eu/>

Project Start Date: 2012-12-01

Project End Date: 2016-11-30

Project Total Cost: EUR 5 398 019.04

Project EC Financial Contribution: EUR 3 891 058.46

Slovak participant Name: ELEKTROTECHNICKY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Electrical Engineering, Slovak Academy of Sciences

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UNIVERSITY OF SOUTHAMPTON - UNITED KINGDOM

OERLIKON LEYBOLD VACUUM GMBH - GERMANY

ACCIONA ENERGIA S.A. - SPAIN

ACCIONA WINDPOWER SA - SPAIN

COLUMBUS SUPERCONDUCTORS SPA - ITALY

D2M ENGINEERING SAS - FRANCE

ELEKTROTECHNICKY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF ELECTRICAL ENGINEERING, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: SUPRAPOWER is a research project focused on a major innovation in offshore wind turbine technology by developing a new compact superconductor-based generator.

The project aims to provide an important breakthrough in offshore wind industrial solutions by designing an innovative, lightweight, robust and reliable 10 MW class offshore wind turbine based on a superconducting (SC) generator, taking into account all the essential aspects of electric conversion, integration and manufacturability.

Today's geared as well as direct-drive permanent magnet generators are difficult to scale up further. Their huge size and weight drives up the cost of both fixed and floating foundations as well as O&M cost. New solutions to provide better power scalability, weight reduction and reliability are needed. Superconductivity may be the only technology able to combine such features and allow scaling to 10 MW and beyond by radical reduction of the head mass.

Project Objectives: This project has the following overall objectives to:

- reduce the head mass, size and cost of offshore wind turbines by means of a compact superconducting generator.
- reduce operating, maintenance and transportation costs and to increase life cycle using an innovative direct drive system.
- increase the reliability and efficiency of high power wind turbines through a drive-train specific integration in nacelle.
- maximize the power conversion and wind response of the wind turbine by means of dedicated control systems/procedures.
- facilitate the development of the offshore wind potential and support its drastic increase.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 143 840

SK Participant EC Financial Contribution: EUR 108 960

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

THERMONANO

Project ID: 227407

Project Title: LOW-TEMPERATURE HEAT EXCHANGERS BASED ON THERMALLY-CONDUCTING POLYMER NANOCOMPOSITES

Project website: <http://www.polito.it/>

Project Start Date: 2009-01-01

Project End Date: 2012-06-30

Project Total Cost: EUR 3 763 426

Project EC Financial Contribution: EUR 2 638 387

Slovak participant Name: USTAV POLYMEROV SLOVENSKEJ AKADEMIE VIED, Polymer Institute of Slovak Academy of Sciences

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Contact person email/ phone: Prof. Ing. Ivan Chodák, DrSc., upolchiv@savba.sk, +421 2 54 771 603

Partners of the Consortium:

POLITECNICO DI TORINO - ITALY

COMMISSARIAT ENERGIE ATOMIQUE CEA - FRANCE

NANOCYL SA - BELGIUM

SIMONA AG - GERMANY

ONNI-STAMP SRL - ITALY

STAROM GRUP S.R.L. - ROMANIA

A.S.T.R.A. REFRIGERANTI S.P.A. - ITALY

TECHNISCHE UNIVERSITAT BERGAKADEMIE - GERMANY

SGL CARBON GMBH - GERMANY

USTAV POLYMEROV SLOVENSKEJ AKADEMIE VIED, Polymer Institute of Slovak Academy of Sciences- SLOVAKIA

Project Description: Low temperature heat recovery is often limiting the energy efficiency of industrial processes. Low temperature differences imply large exchange surfaces which are unfeasible from the economic (expensive metals are needed to withstand the presence of condensates) and technical (too-large volumes for the specific application contexts) viewpoints.

Project Objectives: The research activities aimed at producing two heat exchanger prototypes for the two end-uses following a progressive three-stage path:

- development of fillers and compounds in which a wide range of polymers (PP, PVDF, PA66) and fillers (graphite fibres, carbon nanotubes (CNTs), metal coated nanoparticles or fibres) were modified by the compounding of conductive particles and characterised by an intensive testing and characterisation campaign. A fundamental modelling work was also developed for the design of optimal microstructure of the heat-exchange material;

- tailoring of polymer processing techniques (injection moulding, compression moulding, extrusion). This experimental and modelling work line was carried out in close contact with the design of innovative heat exchanger;

- manufacturing and testing of proof-of-concept heat exchangers for the given end-uses.

Profile of Slovak Participant/ -s: The main portion of research is aimed at intentional and spontaneous structural changes in polymers in relation to their properties. Research projects

are focused on modification by introduction of functional groups, grafting, cross-linking, thermal and light stabilization of polymers, on mechanism of emulsion polymerization, preparation of new polymeric materials based on polymer mixtures and composites, materials for biotechnology and biomedicine and supports for liquids chromatography. The thermodynamics of polymeric systems, conformation and mobility of polymer chain of synthetic polymers and biopolymers are investigated. New chromatographic separation and characterization techniques for complex polymer systems are being developed.

SK Participant Project Cost: EUR 176 656

SK Participant EC Financial Contribution: EUR 133 272

Project Outcomes planned/real: The goal of the project consisted in the development of a plastics-based material with high thermal conductivity. The conductivity should be at least 2 WmK⁻¹. Although conductivity is substantially lower compared to metals currently used for heat exchanger construction, it was believed that it will be possible to compensate the loss in thermal conductivity by creating more complicated shapes of the heat-exchanging parts, so that the overall heat-exchanging area will be higher by one order than that constructed from metal. Further advantages of plastics-based heat exchangers will consist in easier processing (cost reduction), much lower weight (advantages at transport and support in building), and much higher resistance towards aggressive corrosive environment (enabling e.g. cooling by sea water, thus lowering the expenses).

Two basic systems have been investigated, namely standard mixtures of polypropylene or polyvinylidene fluoride with carbon-based fillers (graphite, carbon blacks, carbon nanotubes) and, alternatively, particles of various shapes including nanoparticles, covered by thin sheets of metals. The latter option was found less promising. Thermal conductivity up to 3.5 WmK⁻¹ was achieved with the former materials containing carbon-based thermoconductive fillers. The final demonstration of the successful achievement of the project consisted in the construction of a model heat exchanger of about 30 x 15 x 15 cm in size.

Slovak Participant's Role in Project: The Polymer Institute of the Slovak Academy of Sciences was involved in the detailed investigation of the thermoconductive materials based on PP and PVdF filled with particles covered with metal layers. Several types of metalized particles were prepared, namely PVC powder, wollastonite, glass beads, and polyamide fibres, covered by silver or copper. Thermal conductivity of almost 3 WmK⁻¹ was achieved, but the expenses for production of these fillers were about double compared to price of the carbon-containing composites. Therefore, this part of the project was abandoned after 30 months. During the last year of the project, the role of PISAS consisted in supporting the material research of the carbon filler-containing composites regarding modelling of properties and determination of certain special properties, e.g. toughness, rheology and details of the structure using electrical spectroscopy.

1. Specific programme
COOPERATION

*1.6 Environment
(including Climate Change)*



AQUAREHAB

Project ID: 226565

Project Title: Development of rehabilitation technologies and approaches for multipressured degraded waters and the integration of their impact on river basin management

Project website: <https://aquarehab.vito.be/home/Pages/home.aspx>

Project Start Date: 2009-05-1

Project End Date: 2013-12-31

Project Total Cost: EUR 8 582 278

Project EC Financial Contribution: EUR 6 584 659

Slovak participant Name: ENVIRONMENTAL INSTITUTE s.r.o.

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Contact person email/ phone: Dr. Jaroslav Slobodnik, slobodnik@ei.sk, +421 905 320938

Partners of the Consortium:

VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V. - BELGIUM

THE UNIVERSITY OF SHEFFIELD - UNITED KINGDOM

HELMHOLTZ ZENTRUM MUENCHEN DEUTSCHES FORSCHUNGSZENTRUM FUER GESUNDHEIT UND UMWELT GMBH - GERMANY

MASARYKOVA UNIVERZITA - CZECH REPUBLIC

WAGENINGEN UNIVERSITEIT - NETHERLANDS

HÖGANÄS AB - SWEDEN

TECHNISCHE UNIVERSITEIT DELFT - NETHERLANDS

BEN-GURION UNIVERSITY OF THE NEGEV - ISRAEL

UNIVERSITAET STUTTGART - GERMANY

THE GEOLOGICAL SURVEY OF DENMARK AND GREENLAND - DENMARK

POLITECNICO DI TORINO - ITALY

KØBENHAVNS UNIVERSITET - DENMARK

KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM

SAPION HANS MILIEU-ADVIES - BELGIUM

INSTITUT NATIONAL DE L'ENVIRONNEMENT ET DES RISQUES INERIS - FRANCE

UNESCO-IHE INSTITUTE FOR WATER EDUCATION - NETHERLANDS

CTM CENTRE TECNOLÓGIC - SPAIN

ISODETECT GMBH - GERMANY

ENVIRONMENTAL INSTITUTE S.R.O.- SLOVAKIA

Project Description: Within the AQUAREHAB project, different innovative rehabilitation technologies for soil, groundwater and surface water will be developed to cope with a number of hazardous (nitrates, pesticides, chlorinated and aromatic compounds, mixed pollutions,) within heavily degraded water systems. The technologies are activated riparian zones/wetlands; smart biomass containing carriers for treatment of water in open trenches; in-situ technologies to restore degraded surface water by inhibiting influx of pollutants from groundwater to surface water; multifunctional permeable barriers and injectable Fe-based particles for rehabilitation of groundwater. Methods will be developed to determine the (long-term) impact of the innovative rehabilitation technologies on the reduction of the influx of these priority pollutants towards the receptor.

A connection between the innovative technologies and river basin management will be worked out. In a first stage of the project, the technologies and integration of their impact in river basin management will be developed in three different river basins (Denmark, Israel, Belgium). In a second stage, the generic approaches will be extrapolated to one or two more river basins. One of the major outcomes of the project will be a generic river basin management tool that integrates multiple measures with ecological and economic impact assessments of the whole water system. The research in the project is focused on innovative rehabilitation strategies to reduce priority pollutants in the water system whereas the generic management tool will include other measures related to flood protection, water scarcity and ecosystem health.

The project will aid in underpinning river basin management plans being developed in EU Member States, and will demonstrate cost effective technologies that can provide technical options for national and local water managers, planners and other stakeholders (drinking water companies, industry, agriculture).

Project Objectives: The AQUAREHAB project is structured into distinct Work Packages (WPs) with specific objectives and deliverables.

- a variety of innovative rehabilitation technologies for representative types of pollution (e.g. source zones, contamination plumes, diffuse pollution) and compounds that are of concern in degraded water bodies (e.g. pesticides, nitrate, Chlorinated Aliphatic Hydrocarbons, BTEX). The innovative rehabilitation technologies that to be developed are:

1. Activated riparian zone/wetlands
2. Open trench with smart biomass containing carriers
3. Capping of sediment & stimulated biobarriers
4. Multifunctional permeable reactive barriers
5. Reactive zone with injectable Fe-based particles

- methods (feasibility tests), tools (numerical models) and guidelines to improve the design of rehabilitation technologies and determine the long-term impact on local fluxes of pollutants.

- a collaborative management tool that can be used by stakeholders, decision makers and water managers to evaluate the ecological and economical effects of different remedial actions on river basins.

- an approach to link the effects of the rehabilitation technologies with a river basin management tool.

- a framework to evaluate and disseminate the generic rehabilitation guidelines, approaches and tools by applying them to other river basins with other pollutant conditions, climates, .. in collaboration with end-users.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 330 680

SK Participant EC Financial Contribution: EUR 248 260

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

CCTAME

Project ID: 212535

Project Title: Climate Change - Terrestrial Adaption and Mitigation in Europe

Project website: <http://www.cctame.eu/>

Project Start Date: 2008-06-01

Project End Date: 2011-08-31

Project Total Cost: EUR 4 637 608

Project EC Financial Contribution: EUR 3 499 516

SLOVAK PARTICIPANT 1

Slovak participant Name: VYSKUMNY USTAV PODOZNALECTVA A OCHRANY PODY, Soil Science and Conservation Research Institute

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SLOVAK PARTICIPANT 2

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

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UNIVERSITY OF ABERDEEN – UNITED KINGDOM

UNIVERSITY OF NATURAL RESOURCES AND APPLIED LIFE SCIENCES - AUSTRIA

CENTER FOR ECOLOGICAL RESEARCH AND FORESTRY APPLICATIONS - SPAIN

EUROCARE BONN GMBH - GERMANY

UNIVERSITY OF HAMBURG - GERMANY

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE - FRANCE

JOANNEUM RESEARCH, AUSTRIA / JOINT RESEARCH CENTER - ITALY

IMPERIAL COLLEGE LONDON - UNITED KINGDOM

THE FINNISH FOREST RESEARCH INSTITUTE - FINLAND

MAX-PLANCK-INSTITUT FÜR METEOROLOGIE, ARBEITSGRUPPE REGIONALMODELLIERUNG - GERMANY

UNEP-RISO CENTRE FOR ENERGY, CLIMATE AND SUSTAINABLE DEVELOPMENT - DENMARK

NATIONAL INSTITUTE FOR ENVIRONMENTAL STUDIES - JAPAN

TALLINN UNIVERSITY OF TECHNOLOGY - ESTONIA

VYSKUMNY USTAV PODOZNALECTVA A OCHRANY PODY, SOIL SCIENCE AND CONSERVATION RESEARCH INSTITUTE- SLOVAKIA

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA- SLOVAKIA

Project Description: The project assesses the impacts of agricultural, climate, energy, forestry and other associated land-use policies, considering the resulting effect on the climate system. Geographically explicit biophysical models together with an integrated cluster of economic land-use models are be coupled with regional climate models to assess and identify mitigation and adaptation strategies in European agriculture and forestry. The role of distribution and pressures from socio-economic drivers will be assessed in a geographically nested fashion. Crop/trees growth models operating on the plot level as well as on continental scales will quantify a rich set of mitigation and adaptation strategies focusing on climatic extreme events. The robustness of response strategies to extreme events will further be assessed with risk and uncertainty augmented farm/forest enterprise models. Bioenergy sources and pathways will be assessed with grid level models in combination with economic energy-land-use models.

Project Objectives: The main idea that led to this proposal is the vision of implementing a “policy-model-data fusion” concept which shall guarantee efficient and effective mitigation and adaptation in the land-use sector and maximize benefits from policy coordination with other EU policies. With respect to climate policy a few modelling teams, such as the POLES, PRIMES and IIASA RAINS/GAINS, embraced such a policy-model-data fusion concept. These models are regularly used for strategy-building of future international climate policies of the European Union and are used to inform European policy makers for negotiations to implement European policies such as the European Emission Trading System and international negotiations at COPs. These models share the common feature of being data- and technology-rich bottom-up models. The land use sector is still poorly represented in these models and also lacks the “policy” component in the fusion concept. The CC-TAME project is designed to fill this gap by aligning and linking the currently leading and most suitable land-use models with other climate policy tools to quantify benefits from policy coordination and finally provide consistent policy analysis across sectors including the entire land-use sector. All policy models in CC-TAME are data and technology rich bottom-up models, which are fed by information from plot level simulation “experiments” which guarantees robustness of results and will illustrate the impacts and efficiency of policies on various levels of aggregation both in terms of economic impacts and on the concrete place specific concrete management practice.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Soil Science and Conservation Research Institute, now a part of the National Agricultural and Food Centre is a major authority in soil science, providing soil information in Slovakia. The research activities of the institute cover a wide range of topics such as soil classification, soil genesis, soil mapping up to applied issues of land evaluation, soil production potential, soil ecological functions, nutrients, pollutants, carbon sequestration, soil erosion urban soils etc. Important part of activities is aimed on spatial data generation and exploitation. The institute includes a strong group active in remote sensing and GIS applications working for land use assessment, yield prediction erosion mapping etc.

SK Participant Project Cost: EUR 87 900

SK Participant EC Financial Contribution: EUR 65 925

Project Outcomes planned/real: The CC-TAME project was run in 2008-2011 and focused on impact assessment of the EU level energy, agriculture, and forestry policies with regard to climate change mitigation and sustainable economic development. CC-TAME project reflected mainly the fact, that through various management practices agriculture and forestry sector can reinforce or inhibit the processes leading to climate change. Concerning this, very sensitive area is the land cover and land use change connected to the energy crops production (deforestations, biomass burning) which was in main focus of the project. One of the very practical outcomes of the project was coupling of bio-physical and economic optimization models used then for to really quantify the environmental and economic impacts of various land use alternatives. CC-TAME work was partly based on the results of several earlier research projects which were successfully integrated and further developed during the CC-TAME project.

Slovak Participant’s Role in Project: Slovak research team provided expert support for preparation and processing of EU27 level geographical data on landscape (topography, soil, and land cover) and land use (particularly agricultural land use and human inputs to the soil). The EU27 level geographical data provided both the inputs for the bio-physical models and a “data space” for the bio-physical and economic optimization model communication. Together with data collection and processing the task of Slovak research team was to prepare conceptual solution of the geographical database – proposal and implementation of the selected landscape elements geo-ecological model. The separate task was validation of the bio-physical modelling outputs. Slovak team worked on the bio-physical model inputs database based on national for the purpose of validation the modelling outputs on EU27 level.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 95 200

SK Participant EC Financial Contribution: EUR 71 400

Project Outcomes planned/real: N/A

Slovak Participant’s Role in Project: N/A

CLIMATEWATER

Project ID: 211894

Project Title: Bridging the gap between adaptation strategies of climate change impacts and European water policies

Project website: <http://www.climatewater.org/project.php>

Project Start Date: 2008-11-01

Project End Date: 2011-10-31

Project Total Cost: EUR 1 171 002.8

Project EC Financial Contribution: EUR 956 932.03

Slovak participant Name: SLOVENSKY HYDROMETEOROLOGICKY USTAV, The Slovak Hydrometeorological Institute

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Partners of the Consortium:

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WATER RESEARCH INSTITUTE OF THE NATIONAL RESEARCH COUNCIL - ITALY

INSTITUTE OF ENVIRONMENTAL SYSTEMS RESEARCH, UNIVERSITY OF OSNABRÜCK - GERMANY

NATIONAL INSTITUTE OF MARINE GEOLOGY AND GEO-ECOLOGY - ROMANIA

GEONARDO ENVIRONMENTAL TECHNOLOGIES - HUNGARY

UNIVERSITY OF VIENNA, FACULTY OF ECOLOGY - AUSTRIA

UNIVERSITY OF LEICESTER - UNITED KINGDOM

SOGREAH CONSULTANTS - FRANCE

MALTA RESOURCES AUTHORITY - MALTA

SLOVENSKY HYDROMETEOROLOGICKY USTAV, THE SLOVAK HYDROMETEOROLOGICAL INSTITUTE - SLOVAKIA

Project Description: The Project ClimateWater was aimed as the first step of the analysis and synthesis of data and information on the likely (known, assumed, expected, modelled, forecasted, predicted, estimated etc.) water-related impacts of the changes of the climate with special regard to their risk and to the urgency of getting prepared to combat these changes and their impact.

Project Objectives: The overall objective of the ClimateWater project was to study European and international adaptation measures and strategies related to climate change impacts and how these are taken into account in water policies. The project was designed to formulate a coherent framework on adaptation strategies of climate change impact on water resources, water cycling and water uses of the society and nature with special regard to those that water policy has to take into account when considering climate change impact.

Profile of Slovak Participant/ -s: The SHMU is a state organisation responsible for monitoring of air and water in the territory of Slovak Republic. It was established by the Ministry of Environment of the Slovak Republic and its activity is specified by the statute, decision of the Ministry of Environment. The main task of SHMU is to monitor the atmosphere and hydrosphere including the quality of water

and air and radioactivity of environment. This monitoring also comprises the data processing and creating the specialised databases and it is executed via a permanent programme called Partial monitoring system. SHMU holds the STN EN ISO 9001:2000 certificate for monitoring and archiving parameters of the environment and providing data and information about atmosphere and hydrosphere.

SK Participant Project Cost: EUR 106 540

SK Participant EC Financial Contribution: EUR 81 427

Project Outcomes planned/real: The Project ClimateWater has been focused on studying the available (known, proved, planned or even hypothetically perceived) national and international, European and global adaptation measures and strategies, which offer solutions for alleviating and counteracting the climate change impacts on the hydrological cycle, the water resources and on the water use related activities of the societies and on the life of living things and the properties of natural objects. To this end, the project has been planned to initially review, synthesise and analyse the water related impacts on the society and nature.

In addition to compiling a comprehensive "supporting" collection of available adaptation measures and strategies, the project particularly aimed at identifying how climate change adaptation strategies were incorporated into European Water Policies (in particular the WFD), and to what extent they were capable of responding to the identified needs. Subsequently, the missing links among the European Water Policies have been pointed out and policy recommendations have been formulated in an aim to bridge the gaps.

Slovak Participant's Role in Project: Project activities of SHMU concentrate mostly on water management (including water quality and biological monitoring) and modelling of hydrological processes and flood forecasting and warning, regional climatology including phenological studies, remote sensing methods and NWP modelling. Main contribution of SHMU has been the co-ordination of the synthesising efforts on the development of methodologies of adaptation measures (WP3) providing expertise in the water related issues, data management, climate extremes definition and statistics and the response of ecosystems and water bodies on climate extremes.

COPHES

Project ID: 244237

Project Title: European coordination action on human biomonitoring

Project website: <http://www.eu-hbm.info/cophes>

Project Start Date: 2009-12-1

Project End Date: 2012-11-30

Project Total Cost: EUR 5 068 764

Project EC Financial Contribution: EUR 3 999 000

Slovak participant Name: URAD VEREJNEHO ZDRAVOTNICTVA SLOVENSKEJ REPUBLIKY, Public Health Authority of the Slovak Republic

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NASJONALT FOLKEHELSEINSTITUTT - NORWAY

UMWELTBUNDESAMT GMBH - AUSTRIA

CENTRE DE RECHERCHE PUBLIC - GABRIEL LIPP MANN - LUXEMBOURG (GRAND-DUCHÉ)

ETHNIKO IDRYMA EREVNON - GREECE

INSTITUTO DE SALUD CARLOS III - SPAIN

INSTITUT JOZEF STEFAN - SLOVENIA

MINISTRY OF HEALTH OF THE REPUBLIC OF CYPRUS - CYPRUS

HEALTH & ENVIRONMENT ALLIANCE - BELGIUM

KAROLINSKA INSTITUTET - SWEDEN

CENTRUL DE MEDIU SI SANATATE - ROMANIA

INSTYTUT MEDYCYN Y PRACY NOFERA - POLAND

DEUTSCHE GESETZLICHE UNFALLVERSICHERUNG - GERMANY

VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V. - BELGIUM

INSTITUT DE VEILLE SANITAIRE - FRANCE

UMWELTBUNDESAMT - GERMANY

HEALTH PROTECTION AGENCY HPA - UNITED KINGDOM

TERVEYDEN JA HYVINVOINNIN LAITOS - SUOMI/FINLAND

VYTAUTO DIDZIOJO UNIVERSITETAS - Lithuania

FEDERAL OFFICE OF PUBLIC HEALTH - SWITZERLAND

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EHSI - NETHERLANDS

INSTITUT ZA MEDICINSKA ISTRAZIVANJA I MEDICINU RADA - CROATIA

FEDERALE OVERHEIDSDIENST VOLKSGEZONDHEID, VEILIGHEID VAN DE VOEDSELKETEN EN LEEFMILIEU - BELGIUM

CONSEIL EUROPÉEN DE L'INDUSTRIE CHIMIQUE - BELGIUM

COMMISSION OF THE EUROPEAN COMMUNITIES - DIRECTORATE GENERAL JOINT RESEARCH CENTRE - JRC - BELGIUM

RIJKSINSTITUUT VOOR VOLKSGEZONDHEID EN MILIEU - NETHERLANDS

KØBENHAVNS UNIVERSITET - DENMARK

KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM

STATNI ZDRAVOTNI USTAV - CZECH REPUBLIC

ORSZAGOS KORNYEZETEGESZSEGUGYI INTEZET - HUNGARY

TERVISE ARENGU INSTITUUT - ESTONIA

ASSOCIAÇÃO PARA INVESTIGAÇÃO E DESENVOLVIMENTO DA FACULDADE DE MEDICINA - PORTUGAL

URAD VEREJNEHO ZDRAVOTNICTVA SLOVENSKEJ REPUBLIKY, PUBLIC HEALTH AUTHORITY OF THE SLOVAK REPUBLIC - SLOVAKIA

Project Description: This proposal had been elaborated by a consortium of 35 partners coming from 27 European countries and including scientists, government institutions and authorities, NGOs and industry.

The main goal was to develop a coherent approach to HBM in Europe as requested by ACTION 3 of the EU Environment and Health Action Plan through coordination of ongoing and planned HBM activities. The project will deliver a number of key outputs including:

- Tested Proofs of Concept and/or Demonstration project assessing the feasibility of a coordinated approach, including strategies for data interpretation & integration with environmental and health data,

- A rationale and strategy for communication and dissemination of information, results and key messages to all stakeholders from the public to policy makers,

- Training and capacity building will aim to promote knowledge and experience exchange and development in the field of HBM within Europe.

Project Objectives: The project was designed to exploit existing and planned HBM projects and programmes of work and capabilities in Europe. The consortium investigated what is needed to advance and improve comparability of HBM data across Europe. Work prepared under DG Research and DG Environment activities dealing with development, validation and use of novel biomarkers including non-invasive markers and effect markers were exploited. Through close collaboration with similar initiatives in the field of Health - such as the EU Health Examination Survey - appropriate economies and efficiencies will be assessed. Key issues such as Ethics and human Biobanks will be addressed.

Profile of Slovak Participant/ -s: The Public Health Authority (ÚVZ SR) is a state budgetary organization with competence on the territory of the Slovak Republic. Its registered office is located in Bratislava and the institution is financially linked to the budget of the Ministry of Health. It provides expertise and serves as an advisory body to the Ministry of Health of the Slovak Republic. The authority is an umbrella organisation managing, controlling and coordinating the execution of state administration carried out by regional public health offices in the field of protection, promotion and development of public health.

The structure of the ÚVZ SR is divided into 9 departments related to public health. Via its Department of environmental health the ÚVZ SR is involved in the European environment and health process coordinated by WHO. After the Second Ministerial Conference on Environment and Health held in Helsinki (1994), Slovakia was one of the first countries to implement the Environmental Health Action Plan for Europe (EHAPE) at national level (NEHAP) in 1997. The Department of environmental health manages this NEHAP (4th edition) focusing on environmental health issues in Slovakia. The main domains of the activities are: drinking water, bathing water, indoor air quality, environmental noise, human biomonitoring, child safety, climate change with respect to extreme events such as floods and heat waves, chemicals and others. The Department is a very active participant in international projects within EU. It has participated in many projects aimed at environmental health such ENHIS, ENHIS 2, ERA – ENVHEALTH, SEARCH 1, SEARCH 2, SINPHONIE, COPHES, DEMOCOPHES, TACTICS.

SK Participant Project Cost: EUR 29 916

SK Participant EC Financial Contribution: EUR 24 000

Project Outcomes planned/real: The main goal was to develop a coherent approach to HBM in Europe as requested by ACTION 3 of the EU Environment and Health Action Plan through coordination of ongoing and planned HBM activities in Europe. The project delivered a number of key outputs including: 1. Tested proofs of concept and Demonstration project assessing the feasibility of a coordinated approach, including strategies for data interpretation, integration with environmental and health data. 2. A rationale and strategy for communication and dissemination of information to all stakeholders from the public to policy makers. 3. Training and capacity building. A common understanding within all parties involved on the potential of HBM in supporting and evaluating current/future policy making and for environmental health awareness raising was promoted. This project aim has significantly advanced the process towards a fully operational, continuous, sustainable and scientifically sound EU HBM programme.

Slovak Participant's Role in Project: ÚVZ SR was one of the 35 partners coming from 27 European countries. It represented one of ad hoc members together with other 21 partners. They delivered input to all project tasks as ad hoc members.

Overall the project tasks:

- An operational framework ready for use. This includes a harmonised study protocol for recruitment of participants, biological sampling, toxicological analysis, quality control, data exchange, data analysis and reporting. This should improve comparability of HBM data in Europe.
- A communication strategy and common ethical standards which are accepted by all participating MS.
- A vision document on the steps needed to implement new biomarkers and use them in HBM programmes.
- A programme for training and capacity building.
- A concept for sustainable organisation and structure of a EU HBM network.
- Scientific support for ongoing and planned programmes.

DENAMIC

Project ID: 282957

Project Title: Developmental neurotoxicity assessment of mixtures in children

Project website: <http://www.denamic-project.eu/>

Project Start Date: 2012-01-01

Project End Date: 2015-12-31

Project Total Cost: EUR 9 143 151.25

Project EC Financial Contribution: EUR 6 993 863.4

Slovak participant Name: SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, The Slovak Medical University in Bratislava

Slovak participant address: LIMBOVÁ 12, 833 03 BRATISLAVA

Contact person email/ phone: MUDr. Ľubica Palkovičová, PhD., Phone: +421 2 59370 153, lubica.palkovicova@szu.sk

Partners of the Consortium: VERENIGING VOOR CHRISTELIJK HOGER ONDERWIJS WETENSCHAPPELIJK ONDERZOEK EN PATIENTENZORG - NETHERLANDS
UPPSALA UNIVERSITET - SWEDEN

MASARYKOVA UNIVERZITA - CZECH REPUBLIC

FUNDACION DE LA COMUNIDAD VALENCIANA CENTRO DE INVESTIGACION PRINCIPE FELIPE - ESPAÑA

CENTRO SUPERIOR DE INVESTIGACION EN SALUD PUBLICA - SPAIN

INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU ELECTROCHIMIE SI MATERIE CONDENSATA - INCEMCTIMISOARA - ROMANIA

PROTEOME SCIENCES R&D GMBH & CO. KG - GERMANY

INSTITUTO DE MEDICINA GENÁMICA - SPAIN

NASJONALT FOLKEHELSEINSTITUTT - NORWAY

GEN-INFO ZA USLUGE D.O.O. - CROATIA

CALLISTO PRODUCTIONS LTD - UNITED KINGDOM

VIEW POINT SA - FRANCE

UNIVERSITEIT UTRECHT – NETHERLANDS

SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, THE SLOVAK MEDICAL UNIVERSITY IN BRATISLAVA- SLOVAKIA

Project Description: Various recent epidemiological studies have indicated that exposure to low doses of environmental biologically active contaminants during human development can alter gene expression and have deleterious effects on cognitive development in childhood. The DENAMIC project is ultimately focused on reducing such effects of environmental contamination on learning and developmental disorders in children. It aims to study and evaluate environment-health relationships in children. Key elements are: development of sophisticated tools and methods for early warning and screening of compounds for neurotoxicity, to study mechanisms of disease development and the role of individual susceptibility, to improve assessment of exposures and effects, focus on combined exposures to environmental agents that can interact to enhance adverse effects and reduction of health inequalities of children through Europe.

Project Objectives: One of the main aims of DENAMIC is to develop tools and methods for neurotoxic effects of mixtures of environmental pollutants at low levels, possibly resulting in (subclinical) effects on learning (cognitive skills) and developmental disorders in children (e.g ADHD, autism spectrum disorders and anxiety disorders). A broad

suite of contaminants will be included in the studies, with options to bring in new chemicals in case evidence comes up during the project. With 14 partners from ten different countries DENAMIC has a true international character. It is a comprehensive, multi-disciplinary project. Six SME's will play a key role in the development of biotechnological screening tools. The most modern techniques in the fields of genomics, proteomics, metabolomics and transcriptomics will be applied. Dissemination will ensure the project results to arrive at policymakers' desks, and will also illustrate the subject for a scientific audience and the public. The very large network of the consortium ensures dissemination to European industries, and every other interested stakeholder.

Profile of Slovak Participant/ -s: The Slovak Medical University in Bratislava (SMU) is an educational institution proudly keeping the tradition of education of healthcare workers in specialized studies and continuous life-long education in Slovakia. The Slovak Medical University in Bratislava is the only university in Slovakia offering monothematic education for healthcare professions in all three degrees of higher education, and at the same time, it is the only institution that has guaranteed complex education of healthcare workers in Slovakia under various names since 1953.

The Slovak Medical University is a public institution of higher education acting under the Ministry of Health of the Slovak Republic, with the following four faculties: Faculty of Medicine, Faculty of Public Health, Faculty of Nursing and Professional Health Studies, Faculty of Health.

The Slovak Medical University is a non-political institution, acting within the Magna Charta Universitatum global university charter, recognizing the values democracy, humanism, and tolerance. It leads students towards adherence to the Hippocratic Oath, protection of life and health from conception until dignified natural death.

SK Participant Project Cost: EUR 86 207.25

SK Participant EC Financial Contribution: EUR 65 155.25

Project Outcomes planned/real: The main aim is to develop sophisticated tools and methods for screening of neurotoxic effects of mixtures of environmental pollutants at low levels, possibly resulting in (subclinical) effects on learning (cognitive skills) and developmental disorders in children (e.g ADHD, autism spectrum disorders and anxiety disorders).



Slovak Participant's Role in Project: Department of Environmental Medicine, Faculty of Public Health coordinates Work package 4 - "Pre- and postnatal exposure assessment and neurodevelopment". WP4 is focused on exposure assessment in 5 European mother-child cohorts from 4 countries (Slovakia, Spain, Norway and Netherlands) and on the study of possible associations between selected environmental pollutants and neurodevelopmental outcomes, in particular cognitive development, ADHD, ASD and anxiety disorders.

EBONE

Project ID: 212322

Project Title: European Biodiversity Observation Network; a project to design and test a biodiversity observation system integrated in time and space

Project website: www.ebone.wur.nl

Project Start Date: 2008-04-01

Project End Date: 2012-03-31

Project Total Cost: EUR 3 435 299.8

Project EC Financial Contribution: EUR 2 701 985.1

Slovak participant Name: USTAV KRAJINNEJ EKOLOGIE SLOVENSKEJ AKADEMIE VIED, Institute of Landscape Ecology of The Slovak Academy of Sciences

Slovak participant address: Štefánikova 3, 814 99 BRATISLAVA

Contact person email/ phone: Ľuboš Halada; lubos.halada@savba.sk; 02 20920358

Partners of the Consortium:

ALTERRA, WAGENINGEN UR - NETHERLANDS

CENTRE FOR ECOLOGY AND HYDROLOGY – UNITED KINGDOM

HELMHOLTZ CENTRE FOR ENVIRONMENTAL RESEARCH - GERMANY

EC-JOINT RESEARCH CENTRE - ITALY

UMWELTBUNDESAMT - AUSTRIA

UNIVERSITY OF BUCHAREST - ROMANIA

CEMAGREF - FRANCE

INSTITUUT VOOR NATUUR EN BOSONDERZOEK - BELGIUM

UNIVERSITY OF EDINBURGH - UNITED KINGDOM

ISRAEL NATURE AND PARKS AUTHORITY - ISRAEL

STIFTELSEN NORSK INSTITUTT FOR NATURFORSKNING NINA - NORWAY

ARISTOTLE UNIVERSITY OF THESSALONIKI - GREECE

ESTONIAN UNIVERSITY OF LIFE SCIENCES - ESTONIA

UNIVERSIDAD POLITECNICA MADRID - SPAIN

SVERIGES LANBRUKUNIVERSITET SLU - SWEDEN

UNIVERSITY VIENNA - AUSTRIA

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH - SOUTH AFRICA

USTAV KRAJINNEJ EKOLOGIE SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF LANDSCAPE ECOLOGY OF THE SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The key challenge of the FP7 project European Biodiversity Observation Network (EBONE) was the development of a cost-effective system of biodiversity data collection at regional, national and European levels. The project aims to develop a system for a coherent system of data collection that can be used for internationally comparable assessments. It has set major steps in harmonisation of biodiversity observation in Europe. Its focus lied on habitat information and linking field observations with Remote Sensing.

Project Objectives: The objectives of the EBONE project were:

1. The provision of a sound scientific basis for the production

of statistical estimates of stock and change of key indicators that can then be interpreted by policy makers responding to EU Directives regarding threatened ecosystems and species;

2. The development of a system for estimating past change but also for forecasting and testing policy options and designing mitigating management strategies for threatened ecosystems and species.

Profile of Slovak Participant/ -s: The Institute of Landscape Ecology of the Slovak Academy of Sciences (ILE SAS) is an interdisciplinary scientific institution of basic and applied research in landscape ecology. At present, the main research tasks of the institute are: evaluating the influence of anthropogenic factors on the landscape, sustainable land use, ecological networks, preservation of biodiversity and geocodiversity, and ES. The methodology of landscape-ecological planning, LANDEP, which is included in Agenda 21 from the Rio Summit as the suggested methodology for an integrated approach to the management of natural resources (Chapter 10 in Agenda 21), was elaborated at the ILE SAS. The ILE SAS is Centre of Excellence for protection and utilisation of landscape and biodiversity. It has an important place within the frame of international cooperation. It takes part in many international projects, including projects in FP5, FP6 and FP7 EC Framework Programmes. The Institute is also involved in education.

SK Participant Project Cost: EUR 341 326

SK Participant EC Financial Contribution: EUR 302 926

Project Outcomes planned/real: The EBONE project was designed to develop a fully integrated system based on key biodiversity indicators, implemented within an institutional framework operating at the European level. EBONE is a partnership of sixteen universities and research institutes in Europe, Israel and South Africa. Four major products are: 1) The European Habitat Classification developed as General Habitat Categories for cost effective in situ habitat monitoring (e.g. for Habitats Directive reporting, Aichi targets) and linking existing approaches in Europe; 2) The Global Environmental Stratification that provides a consistent stratification of the terrestrial parts of the globe in about 125 strata, that will allow cost efficient global biodiversity observation; 3) A habitat database that allows sharing of European habitat and species data from new field observation, from existing surveys (such as the Swedish NILS survey and the British Countryside survey) for better and cost-effective European reporting; 4) - Remote sensing approaches such as LiDAR can be used for local habitat mapping and phenology indicators have been developed.

Slovak Participant's Role in Project: ILE SAS led the WP10 "Stakeholder involvement, communication and dissemination" and participated in WP0 "Project management"; WP1 "Concept of monitoring, indicator species, habitats and indicators"; WP4 "Protocols and harmonisation of available in situ data"; WP5 "Intercalibration of EO data and in situ data"; WP6 "Field validation of the methodological framework"; WP8 "Design of a monitoring system and its cost-effectiveness"; and WP9 "Contribution to a world-wide monitoring system: a pilot monitoring system for global Mediterranean regions". Besides WP10, the main involvement of the Institute was in WP5 in which ILE SAS focused on testing of phenology approach in the remote sensing monitoring of grasslands.

ECOFINDERS

Project ID: 264465

Project Title: Ecological Function and Biodiversity Indicators in European Soils

Project website: <http://ecofinders.dmu.dk/>

Project Start Date: 2011-01-01

Project End Date: 2014-12-31

Project Total Cost: EUR 9 985 223.51

Project EC Financial Contribution: EUR 6 999 930

SLOVAK PARTICIPANT 1

Slovak participant Name: USTAV EKOLOGIE LESA SLOVENSKEJ AKADEMIE VIED, Institute of Forest Ecology, Slovak Academy of Sciences

Slovak participant address: Štúrova 2, 960 53 ZVOLEN

Contact person email/ phone: assoc. Prof. Tatiana Kluvánková-Oravská, PhD., kluvankova@savzv.sk, +421 903 972 813

SLOVAK PARTICIPANT 2

Slovak participant Name: PROGNOSTICKY USTAV SLOVENSKEJ AKADEMIE VIED, The Institute for Forecasting of the Slovak Academy of Sciences

Slovak participant address: SANCOVA 56, 811 05 BRATISLAVA

Contact person email/ phone: Prof. Tatiana Kluvánková-Oravská, PhD., cetip@savba.sk, +421252495250

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INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE - FRANCE

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LUNDS UNIVERSITET – SWEDEN

AARHUS UNIVERSITET - DENMARK

UNIVERZA V LJUBLJANI - SLOVENIA

UNIVERSITA DEGLI STUDI DI SASSARI - ITALY

UNIVERSITAET ZU KOELN - GERMANY

THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE - UNITED KINGDOM

UNIVERSITA DEGLI STUDI DI TORINO - ITALY

ECT OEKOTOXIKOLOGIE GMBH - GERMANY

NATURAL ENVIRONMENT RESEARCH COUNCIL - UNITED KINGDOM

BC3 BASQUE CENTRE FOR CLIMATE CHANGE - KLIMA ALDAKETA IKERGAI - SPAIN

IMAR- INSTITUTO DO MAR - PORTUGAL

STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK - NETHERLANDS

UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN - ÉIRE/ IRELAND

SVERIGES LANTBRUKUNIVERSITET - SWEDEN

THE UNIVERSITY COURT OF THE UNIVERSITY OF ABERDEEN - UNITED KINGDOM

THE UNIVERSITY OF MANCHESTER - UNITED KINGDOM

RIJKSINSTITUUT VOOR VOLKSGEZONDHEIDEN MILIEU* NATIONAL INSTITUTE FOR PUBLIC HEALTH AND THE ENVIRONMENTEN - NETHERLANDS

TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY - ÉIRE/IRELAND

INRA TRANSFERT S.A. - FRANCE

CHINA AGRICULTURAL UNIVERSITY - CHINA

JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM

WAGENINGEN UNIVERSITY - NETHERLANDS

SRUC - UNITED KINGDOM

KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN – KNAW – NETHERLANDS

USTAV EKOLOGIE LESA SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF FOREST ECOLOGY, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

PROGNOSTICKY USTAV SLOVENSKEJ AKADEMIE VIED, THE INSTITUTE FOR FORECASTING OF THE SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The overall concept of the project is to develop and integrate the following activities: 1) Decipher the links between soil biodiversity, activities, functioning and ecosystem services; 2) Combine three types of approach: observation, experimentation, and computation; 3) Assess the impact of environmental conditions; 4) Integrate information on microbes, fauna and plant communities and analyse how these compartments interact. The general hypotheses are: changes in soil biodiversity indicate the direction and rate of changes in soil functions and associated ecosystem services; application of cost-effective bioindicators brings an economic added value to sustainable soil management.



Project Objectives: The strategic goal of EcoFINDERS is to provide the EC with tools to design and implement soil strategies aimed at ensuring sustainable use of soils, including: 1) Characterisation of European soil biodiversity; 2) Determination of relations between soil biodiversity, soil functions and ecosystem services; 3) Design of policy-relevant and cost-effective indicators for monitoring soil biodiversity.

Project tasks included the following: 1) Developing and standardise tools and procedures to measure microbial and faunal diversity; 2) Describe the diversity of soil organisms (microbes and fauna), 3) Decipher the interactions among soil organisms and with plants through foodwebs and 4) Determine the role played by soil organisms in soils ecosystem services (nutrient cycling, carbon storage, water retention, soil structure regulation, resistance to pests and diseases, and regulation of above-ground diversity); 5) Establish cost-effective bioindicators for measuring sustainability of the microbial and faunal diversity and their associated functions (using a combination of metrics and meta-analysis); 6) Evaluate the economic value of ecosystem services, the added value of these bioindicators; 7) Develop and implement effective communication strategies to engage the European public around issues associated with the sustainability of soil biodiversity.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Interdisciplinary research across natural and social sciences in particular incorporation of institutional, behavioural and ecological economics into the environmental governance and policy making.

SK Participant Project Cost: EUR 69 531.6

SK Participant EC Financial Contribution: EUR 52 148.07

Project Outcomes planned/real: Novel tools and policies for behavioural changes to soil biodiversity protection / 3 papers in Current content journals 1) KLUVÁNKOVÁ-ORAVSKÁ, T., CHOBOTOVÁ, V. SMOLKOVÁ, E.C., 2013. The Challenges of Policy Convergence: The Europeanization of Biodiversity Governance in an Enlarging EU. Environment and Planning C: Government and Policy 31, pp. 401 – 413, doi:10.1068/c1034j (IF 1.016) 2) CHOBOTOVÁ, V. 2013. The Role of Market-Based Instruments for Biodiversity Conservation in Central and Eastern Europe. Ecological Economics 95. 41-50. (IF 2.517) 3) Baus, P., Kováč, U., Paudišová, E., Kohutková, I., Komorník, J. 2013. Identification of interconnections between landscape pattern and urban dynamics—Case study Bratislava, Slovakia. Ecol. Indicat. http://dx.doi.org/10.1016/j.ecolind.2013.12.011 (IF 3,230)

Slovak Participant's Role in Project: UEL SAV is co-chairing the work package 5 titled: Valuation of Soil Ecosystem Services: responsibilities in D.5.2., 5.5. 5.6: Governance, cost effectiveness and evaluation soil ecosystem services conservation policies.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 50 935.9

SK Participant EC Financial Contribution: EUR 38 201.93

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ENNAH

Project ID: 226442

Project Title: European Network on Noise And Health

Project website: <http://www.ennah.eu/home?lang=en>

Project Start Date: 2009-09-01

Project End Date: 2012-01-31

Project Total Cost: EUR 1 140 450.8

Project EC Financial Contribution: EUR 993 852

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

Slovak participant address: SAFARIKOVO NÁM. 6, 818 06 BRATISLAVA

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THE MANCHESTER METROPOLITAN UNIVERSITY - UNITED KINGDOM

TECHNISCHE UNIVERSITÄT BERLIN - GERMANY

AZIENDA SANITARIA LOCALE ROMA - ITALY

HELMHOLTZ ZENTRUM MÜNCHEN DEUTSCHES FORSCHUNGSZENTRUM FÜR GESUNDHEIT UND UMWELT GMBH - GERMANY

INSTITUT FRANÇAIS DES SCIENCES ET TECHNOLOGIES DES TRANSPORTS, DE L'AMÉNAGEMENT ET DES RÉSEAUX - FRANCE

GERMANY

BERRY ENVIRONMENTAL LTD - UNITED KINGDOM

KAROLINSKA INSTITUTET - SWEDEN

FACULTY OF MEDICINE, UNIVERSITY OF BELGRADE - SERBIA

INSTYTUT MEDYCYNY PRACY NOFERA - POLAND

STOCKHOLMS UNIVERSITET - SWEDEN

UMWELTBUNDESAMT - GERMANY

INSTITUT ZA VARNOSTI ZDRAVJA REPUBLIKE SLOVENIJE - SLOVENIA

UNIwersytet im. Adama Mickiewicza w Poznaniu - POLAND

CARDIFF UNIVERSITY - UNITED KINGDOM

MEDIZINISCHE UNIVERSITÄT INNSBRUCK - AUSTRIA

NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK - TNO - NETHERLANDS

SCHWEIZERISCHES TROPENINSTITUT - SWITZERLAND

RIJKSINSTITUUT VOOR VOLKSGEZONDHEID EN MILIEU PART OF THE DUTCH STATE - NETHERLANDS

UNIVERSITÄT STUTTGART - GERMANY

AGENZIA REGIONALE PER LA PROTEZIONE AMBIENTALE DEL PIEMONTE - ITALY

COMMISSION OF THE EUROPEAN COMMUNITIES - DIRECTORATE GENERAL JOINT RESEARCH CENTRE - JRC - BELGIUM

REPUBLICKI ZAVOD ZA ZDRAVSTVENA ZASTITA - THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA

AGENZIA REGIONALE PER LA PROTEZIONE AMBIENTALE DELLA TOSCANA (ARPAT) - ITALY

THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA - UNITED STATES

CENTRE FOR MUSCULOSKELETAL RESEARCH - UNIVERSITY OF GÄVLE - SWEDEN

IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE - UNITED KINGDOM

NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS - GREECE

FORSCHUNGSGESELLSCHAFT FÜR ARBEITSPHYSIOLOGIE UND ARBEITSSCHUTZ E.V. - GERMANY

TRANSPORTÖKONOMISKT INSTITUTT - NORWAY

MEMOLIX - ITALY

UNIVERSITEIT GENT - BELGIUM

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA - SLOVAKIA

Project Description: This proposal puts forward plans to establish a research network of experts on noise and health in Europe. This network will establish future research directions and policy needs in Europe. The network will review the existing literature on environmental noise exposure and health focussing on the consolidation of existing state of the art knowledge and the identification of gaps in the evidence and future research needs and hypotheses to be tested. In the network we will train junior researchers in noise and health through setting up an exchange network across Europe.

The network will focus on noise exposure assessment in health studies in order to build more complex analytical models of noise and health effects that take into account moderating factors including the joint effects of air pollution and noise. A specific function of the network will be to establish communication between researchers on noise and researchers on air pollution.

ENV-NCP- TOGETHER

Project ID: 212494

Project Title: Environment NCPs cooperating to improve their effectiveness

Project website: <http://www.env-ncp-together.eu/>

Project Start Date: 2009-01-01

Project End Date: 2013-12-31

Project Total Cost: EUR 3 179 682.6

Project EC Financial Contribution: EUR 2 799 365.84

Slovak participant Name: NARODNE LESNICKE CENTRUM, National Forest Centre

Slovak participant address: T. G. MASARYKA 22, 960 92 ZVOLEN

Contact person email/ phone: Dr. Ingrid Kriššáková, krissakova@nlcsk.org, +421-45-5314156

Partners of the Consortium:

AUTORITATEA NATIONALA PENTRU CERCETARE STIITIFICA, ROMANIA

AUSTRIAN RESEARCH PROMOTION FOUNDATION - AUSTRIA

BRUSSELS AGENCY - BELGIUM

TECHNICAL UNIVERSITY OF SOFIA - BULGARIA

VEREIN EURESEARCH - SWITZERLAND

RESEARCH PROMOTION FOUNDATION - CYPRUS

TECHNOLOGY CENTRE AS CR - CZECH REPUBLIC

PROJEKTTRÄGER JÜLICH FORSCHUNGSZENTRUM JÜLICH GMBH - GERMANY

ARCHIMEDE FOUNDATION - ESTONIA

FRENCH AGENCY FOR THE ENVIRONMENT AND ENERGY MANAGEMENT - FRANCE

NATIONAL OFFICE FOR RESEARCH AND TECHNOLOGY - HUNGARY

ISRAEL EUROPE R&D DIRECTORATE FOR EC FRAMEWORK PROGRAMS - ISRAEL

AGENCY FOR THE PROMOTION OF EUROPEAN RESEARCH - ITALY

AGENCY FOR INTERNATIONAL SCIENCE AND TECHNOLOGY DEVELOPMENT PROGRAMMES - LITHUANIA

OFFICE OF THE PRIME MINISTER - MALTA

AGENTSCHAP NL - NETHERLANDS

INSTYTUT PODSTAWOWYCH PROBLEMÓW TECHNIKI PAN - POLAND

SCIENTIFIC AND TECHNOLOGICAL RESEARCH COUNCIL OF TURKEY - TURKEY

NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS" - GREECE

NATIONAL AGENCY FOR INNOVATION AND RESEARCH - LUXEMBOURG

BETA TECHNOLOGY - UNITED KINGDOM

SWEDISH RESEARCH COUNCIL FOR ENVIRONMENT, AGRICULTURAL SCIENCES AND SPATIAL PLANNING - SWEDEN

CENTRE FOR THE DEVELOPMENT OF INDUSTRIAL TECHNOLOGY - SPAIN

THE ICELANDIC CENTRE FOR RESEARCH - ICELAND

INTERACTIVE TECHNOLOGY, SOFTWARE AND MEDIA ASSOCIATION - INDIA

MINISTRY OF SCIENCE, EDUCATION AND SPORTS - CROATIA

AGÊNCIA DE INOVAÇÃO, S.A. - PORTUGAL

NARODNE LESNICKE CENTRUM, NATIONAL FOREST CENTRE - SLOVAKIA

Project Description: National Contact Points (NCPs) play a key role in communication with the European Commission concerning executive matters and the scientific community. The quality of proposals submitted, for example, relies partially on an effective NCP network. This project is a set of coherent activities and tasks that foster further cooperation between Environment NCPs from EU member States and Associated States.

Project Objectives: The main objectives of this project are to:

1. strengthen the cooperation between NCPs from EU MS, by promoting transnational cooperation;
2. reinforce international cooperation with NCPs from International Cooperation Partner Countries (ICPC) with high potential of participation to FP7;
3. increase the number and improve the quality of project proposals submitted to FP7 calls through better NCP services.

Profile of Slovak Participant/ -s: National forest centre is a semi-budgetary forestry agency established by the SR Ministry of Agriculture of the Slovak Republic on 1 January 2006. The Centre reports directly to the Department of Forestry and Wood-processing of MA SR. Its duties and powers are prescribed by statute No 6481/2005-250 from 22 November 2005 amended by the Decision No 1549/2007-250 from 19 March 2007 and Decision No 3632/2007-250 from 23 August 2007. Our mission is to protect and expand Slovakia's forests and increase their value for the society and the environment.

The organization aims to take the lead in the development and promotion of sustainable forest management and its implementation in practice. The National forest centre strives to provide forestry professionals, forest owners and other stakeholders with new knowledge on forests and practical solutions enhancing stewardship of existing forest resources. In addition, we support transfer of appropriate know-how to state and municipal authorities on forestry, nature conservation, environment, rural development and urban planning. It is the organization's ambition to provide fully-fledged services relevant to and supporting strategic priorities and interests of forestry.

SK Participant Project Cost: EUR 95 525

SK Participant EC Financial Contribution: EUR 63 882.21

Project Outcomes planned/real: Primary outcomes of the project were: cooperation between NCPs across Europe was strengthened by setting up new and effective communication means, quality of services offered by NCPs to proposers increased with the aim to increase number and quality of project proposals submitted in response to FP7 calls for proposals, other non-EU NCPs were integrated into the EU NCP network in order to increase mutual advantages for research and technological development between Europe and International Partners Cooperation Countries.

Slovak Participant's Role in Project: Active participation in all project WPs, Intra European NCP cooperation, organizing Brokerage Events, increasing the quality of proposals submitted in response to FP7 calls, international cooperation, dissemination and communication process and PanEuropean survey of environment sector.

The project will improve the measurement of health outcomes relevant to noise research and strengthen the available methodologies for future research, by extending analyses on existing research taking advantage of the large EU-funded RANCH and HYENA studies and relevant national studies.

The project will develop novel designs for research on noise and health to provide to the EU a new strategy for the development of noise and health research in the future.

Project Objectives: The initial objective of ENNAH was to review the existing literature on environmental noise exposure and health focusing on consolidation of existing knowledge and the identification of gaps in the evidence and future research needs. A further objective was to ensure that the most up-to-date measures of noise exposure assessment are applied to health studies. The network also assessed complex analytical models of noise and health effects that take into account moderating factors such as the joint effects of air pollution and noise

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 13 845.6

SK Participant EC Financial Contribution: EUR 12 345.66

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ERA-ENVHEALTH

Project ID: 219337

Project Title: Coordination of national environment and health research programmes - Environment and health ERA-NET

Project website: <http://www.era-envhealth.eu>

Project Start Date: 2008-09-01

Project End Date: 2012-12-31

Project Total Cost: EUR 2 417 832.79

Project EC Financial Contribution: EUR 1 999 936.25

Slovak participant Name: URAD VEREJNEHO ZDRAVOTNICTVA SLOVENSKEJ REPUBLIKY, Public Health Authority of the Slovak Republic

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RIJKSINSTITUUT VOOR VOLKSGEZONDHEID EN MILIEU - NETHERLANDS

MINISTRY OF HEALTH - ISRAEL

MINISTERE DE L'ECOLOGIE, DU DEVELOPPEMENT DURABLE DES TRANSPORTS ET DU LOGEMENT - FRANCE

ENVIRONMENTAL PROTECTION AGENCY OF IRELAND - ÉIRE/IRELAND

ENVIRONMENT AGENCY - UNITED KINGDOM

UMWELTBUNDESAMT - GEMANY

NATURVARDVERKET - SWEDEN

SERVICE PUBLIC FEDERAL DE PROGRAMMATION POLITIQUE SCIENTIFIQUE - BELGIUM

AGENCE DE L'ENVIRONNEMENT ET DE LA MAITRISE DE L'ENERGIE - FRANCE

MINISTERIE VAN INFRASTRUCTUUR EN MILIEU - NETHERLANDS

ISTITUTO SUPERIORE PER LA RICERCA E LA PROTEZIONE AMBIENTALE (ISPRA) - ITALY

SERVICE PUBLIC FEDERAL SANTE PUBLIQUE, SECURITE DE LA CHAINE ALIMENTAIRE ET ENVIRONNEMENT - BELGIUM

URAD VEREJNEHO ZDRAVOTNICTVA SLOVENSKEJ REPUBLIKY, PUBLIC HEALTH AUTHORITY OF THE SLOVAK REPUBLIC - SLOVAKIA

Project Description: It is estimated that around 20 % of the burden of disease in industrialized countries can be attributed to environmental factors, and the magnitude of the problem is perceived by the majority of Europeans. The assessment of health impacts is based mostly on scarce exposure data and limited information on the relationship between exposure and health. There is, therefore, a need to strengthen research in this area and to develop methods and tools which will improve the comparability of data. Member States have developed skills and expertise using different mechanisms to fund environment and health research.

The scientific boundaries created by the remits of different funding organisations have frequently acted as a disincentive to collaborative working. Although aims are towards relevance and efficiency, the results remain dispersed and not of actual support for policy-making. Therefore, results of the studies in ERA-ENVHEALTH will lead to the proposal of a coherent set of proposed priorities, implementation of joint activities, and common calls.

Project Objectives: Project objectives:

Develop an E&H expert database and a research database.

Collect and analyse information on E&H programmes.

Identify strategic and emerging E&H issues, complementarities & clustering arrangements and prioritise these issues for joint activities and funding.

Develop a long-term action plan for joint activities, foster collaboration and implement activities.

Manage a joint multi-national research call on a specific E&H topic, design a second call and evaluate the first call.

Facilitate communication between partners, stakeholders, policy-makers and research initiatives

Disseminate objectives and results.

Extend the network.

Profile of Slovak Participant/ -s: The Public Health Authority (ÚVZ SR) is a state budgetary organization with competence on the territory of the Slovak Republic. Its registered office is located in Bratislava and the institution is financially linked to the budget of the Ministry of Health. It provides expertise and serves as an advisory body to the Ministry of Health of the Slovak Republic. The authority is an umbrella organisation managing, controlling and coordinating the execution of state administration carried out by regional public health offices in the field of protection, promotion and development of public health.

The structure of the ÚVZ SR is divided into 9 departments related to public health. Via its Department of environmental health the ÚVZ SR is involved in the European environment and health process coordinated by WHO. After the Second Ministerial Conference on Environment and Health held in Helsinki (1994), Slovakia was one of the first countries to implement the Environmental Health Action Plan for Europe (EHAPE) at national level (NEHAP) in 1997. The Department of environmental health manages this NEHAP (4th edition) focusing on environmental health issues in Slovakia. The main domains of the activities are: drinking water, bathing water, indoor air quality, environmental noise, human biomonitoring, child safety, climate change with respect to extreme events such as floods and heat waves, chemicals and others. The Department is a very active participant in international projects within EU. It has participated in many projects aimed at environmental health such ENHIS, ENHIS 2, ERA - ENVHEALTH, SEARCH 1, SEARCH 2, SINPHONIE, COPHES, DEMOCOPHES, TACTICS.

SK Participant Project Cost: EUR 122 100

SK Participant EC Financial Contribution: EUR 108 872.5

Project Outcomes planned/real: The main goal was to create ERA-ENVHEALTH as practical element for the implementation of EHAPE (2004-2010) by promoting better coordination of research implementation and better use of research results to support policy development, and to contribute to the implementation of the WHO E&H research commitments in practice. Overall project tasks:

Establish a network of programme managers to share information on research activities and expertise in the area of environment and human health sciences.

Define opportunities for cooperation and coordination of national and regional research activities and identify priority areas for multinational research leading to multi-disciplinary collaborations between the respective research communities.

Develop coherent joint activities at the EU level on specific environment and health topics.

Implement joint multi-national calls for research proposals on identified E&H issues.

Provide policy support for the implementation of the Environment and Health Action Plan (2004-2010) and support a number of other EU policies concerned with environmental health including strategies regarding climate change, air pollution and children's health.

Slovak Participant's Role in Project: ÚVZ SR was one of the 19 partners coming from 10 European countries. It became the WP leader for Task 1 – Information exchange. Task 1 included 4 subtasks:

Develop a database to facilitate information collection and analysis and inventory scientific potential in Europe.

Identify and collect information on environment and health programmes and owners to improve understanding of current practices in programme planning and management.

Formulate EU-wide priorities for collaborative E&H research.

Analyse the process to link research to policy in E&H.

Relevant deliverables for Task 1 submitted:

Specification of the database,

Database of scientist experts,

Database of E&H programmes,

Guidelines for users of the database,

Draft overview of programmes,

Final overview of programmes and projects including synthesis and recommendation.

EU BON

Project ID: 308454

Project Title: EU BON: Building the European Biodiversity Observation Network

Project website: <http://www.eubon.eu/>

Project Start Date: 2012-12-01

Project End Date: 2017-05-31

Project Total Cost: EUR 11 589 678.48

Project EC Financial Contribution: EUR 8 999 806

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NATURAL HISTORY MUSEUM - UNITED KINGDOM

GLOBAL BIODIVERSITY INFORMATION FACILITY - DENMARK

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SENCKENBERG GESELLSCHAFT FÜR NATURFORSCHUNG - GERMANY

WCMC LBG - UNITED KINGDOM

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FUNDAÇÃO AMAZONICA DE DEFESA DA BIOSFERA ASSOCIACAO PRIVADA - BRAZIL

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FISHBASE INFORMATION & RESEARCH GROUP INC - PHILIPPINES

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CENTRE TECNOLÓGIC FORESTAL DE CATALUNYA - SPAIN

BOTANICKÝ USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF BOTANY, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: Sustainable governance of our biological resources demands reliable scientific knowledge to be accessible and applicable to the needs of society. The fact that current biodiversity observation systems and environmental datasets are unbalanced in coverage and not well integrated brings the need of a new system which will facilitate access to this knowledge and will effectively improve the work in the field of biodiversity observation in general. In light of the new Intergovernmental science-policy Platform on Biodiversity and Ecosystem Services (IPBES), such a network and approach are imperative for attaining efficient processes of data collation, analysis and provisioning to stakeholders. A system that facilitates open access to taxonomic data is essential because it will allow a sustainable provision of high quality data to partners and users, including e-science infrastructure projects as well as global initiatives on biodiversity informatics. EU BON proposes an innovative approach in terms of integration of biodiversity information system from on-ground to remote sensing data, for addressing policy and information needs in a timely and customized way. The project will reassure integration between social networks of science and policy and technological networks of interoperating IT infrastructures. This will enable a stable new open-access platform for sharing biodiversity data and tools to be created.

Project Objectives: The main objective of EU BON is to build a substantial part of the Group on Earth Observation's Biodiversity Observation Network (GEO BON). In light of the new Intergovernmental science-policy Platform on Biodiversity and Ecosystem Services (IPBES), such a network and approach are imperative for attaining efficient processes of data collation, analysis and provisioning to stakeholders.

A key feature of EU BON will be the delivery of near-real-time relevant data – both from on-ground observation and remote sensing – to the various stakeholders and end users ranging from local to global levels. Doing so will require (1) the establishment and adoption of new data standards and integration techniques, (2) harmonized data collection, and (3) the development of new approaches and strategies for future biodiversity monitoring and assessment. We will develop and provide practical indicators and interpretation tools for endusers from, e.g., agriculture to nature conservation. EU BON will support national and international authorities, as well as private stakeholders and the general public with integrated and scientifically sound biodiversity data analyses. The project intends to develop a full-scale model for a durable mechanism for higher level integration of biodiversity information providers and users through a network of networks approach scalable from local to global biodiversity observation systems.

EU BON proposes two related networking levels, (1) a science-based social network, comprising and linking the communities of practice engaged in collecting, managing, analyzing, and utilizing biodiversity observations and data, and (2) a technological network of interoperating IT infrastructures and systems that store and distribute information of all kinds held by multiple organisations and partners, and to provide a platform for data analysis and interpretation. For resource efficiency, the establishment of the GEO biodiversity information network will build on existing infrastructures and efforts to integrate monitoring schemes and their data across Europe and internationally.

In doing that, EU BON will have the following specific objectives:

advancing the technological/informatics infrastructures for GEO BON, by moving existing biodiversity networks towards standards-based, service-oriented approaches and cloud computing, enabling full interoperability through the GEOSS Common Infrastructure;

improving the range and quality of the methods and tools for assessment, analysis, and visualization of biodiversity and ecosystem information, particularly focussing on predictive modelling, identification of drivers of change, and biodiversity indicators, and to support priority setting;

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 190 560

SK Participant EC Financial Contribution: EUR 143 782

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

INTEGRAL

Project ID: 282887
 Project Title: Future-oriented integrated management of European forest landscapes
 Project website: <http://www.integral-project.eu/>
 Project Start Date: 2011-11-01
 Project End Date: 2015-10-31
 Project Total Cost: EUR 8 845 326
 Project EC Financial Contribution: EUR 6 998 601
 Slovak participant Name: TECHNICKA UNIVERZITA VO ZVOLENE, Slovak Technical University Zvolen
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 INSTITUT DES SCIENCES ET INDUSTRIES DU VIVANT ET DE L'ENVIRONNEMENT - AGRO PARIS TECH - FRANCE
 EUROPEAN FOREST INSTITUTE - SUOMI/FINLAND
 CONFEDERATION EUROPEENNE DES PROPRIETAIRES FORESTIERS ASBL - LUXEMBOURG (GRAND-DUCHÉ)
 TECHNICKA UNIVERZITA VO ZVOLENE, SLOVAK TECHNICAL UNIVERSITY ZVOLEN- SLOVAKIA

Project Description: The vital environmental and socio-economic role of European forests is well documented and acknowledged in policy documents of both the European Union and its member states. However, there are critical incoherencies within and between trans-national, national and local forest-related land use policies, the central issue being mismatches between the policies and their implementation at the landscape level. Hence, there is a need to improve existing policy and management approaches capable of delivering a better balance between multiple and conflicting demands for forest goods and services. Diminishing mismatches and providing a new policy and management approach that is sensitive to ecological, socioeconomic and political issues of are the main objectives of INTEGRAL.

Project Objectives: The objectives are achieved by following a research approach with 3 phases: diagnostic analysis of the status-quo (phase 1), participatory development and evaluation of scenarios (phase 2), and problem-solving oriented back-casting for policy development and evaluation (phase 3). The research design will be applied in a total of 20 landscapes in 10 European countries that differ in key characteristics, such as ownership, the importance of forestry and forest-based industries and the priorities of allocation and management of new and existing forest lands. The involvement of national and local stakeholder groups all the way through the project plays a decisive role in the project.

The most important long term impact of INTEGRAL consists of the knowledge and competence base for integrating international, national and local levels in participatory decision and planning processes. This includes the development of manuals for how to duct such processes, methods for utilizing quantitative decision support tools in the participatory process, and the establishment of a body of knowledge among those participating in the extensive case studies. Thus, the consistency of implemented forest policies can be enhanced.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 333 600

SK Participant EC Financial Contribution: EUR 252 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

OPENNESS

Project ID: 308428
 Project Title: Operationalisation of Natural Capital and Ecosystem Services: From Concepts to Real-World Applications
 Project website: <http://www.openness-project.eu/>
 Project Start Date: 2012-12-01
 Project End Date: 2017-05-31
 Project Total Cost: EUR 11 489 110.4
 Project EC Financial Contribution: EUR 8 999 193
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SLOVAK PARTICIPANT 2

Slovak participant Name: RNDR. PETER MEDERLY REGIOPLAN-KRAJINNOCKOLOGICKY SERVIS
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 INDIAN INSTITUTE OF BIO-SOCIAL RESEARCH AND DEVELOPMENT SOCIETY - INDIA
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 RNDr. PETER MEDERLY REGIOPLAN-KRAJINNOCKOLOGICKY SERVIS- SLOVAKIA

Project Description: Despite improved understanding of the links between ecosystem health, provision of ecosystem services and human well-being, further conceptual and empirical work is needed to make the ideas of ecosystem services (ESS) and natural capital (NC) operational. OpenNESS will therefore develop innovative and practical ways of applying them in land, water and urban management: it will identify how, where and when the concepts can most effectively be applied to solve problems. To do this, it will work with public and private decision makers and stakeholders to better understand the range of policy and management problems faced in different case study contexts (ranging across locales, sectors, scales and time). OpenNESS will consolidate, refine and develop a range of spatially-explicit methods to identify, quantify and value ecosystem services, and will develop hybrid assessment methods. It will also explore the effectiveness of financial and governance mechanisms, such as payments for ecosystem services, habitat banking, biodiversity offsetting and land and ecosystem accounting. These types of interventions have potential for sustaining ESS and NC, and for the design of new economic and social investment opportunities.

Finally, OpenNESS will assess how current regulatory frameworks and other institutional factors at EU and national levels enable or constrain consideration of ESS and NC, and identify the implications for issues related to well-being, governance and competitiveness. OpenNESS will analyse the knowledge that is needed to define ESS and NC in the legal, administrative and political contexts that are relevant to the EU. The research work will deliver a menu of multi-scale solutions to be used in real life situations by stakeholders, practitioners, and decision makers in public and business organizations, by providing new frameworks, data-sets, methods and tools that are fit-for-purpose and sensitive to the plurality of decision-making contexts.

Project Objectives: OpenNESS aims to translate the concepts of Natural Capital (NC) and Ecosystem Services (ES) into operational frameworks that provide tested, practical and tailored solutions for integrating ES into land, water and urban management and decision-making. It examines

how the concepts link to, and support, wider EU economic, social and environmental policy initiatives and scrutinizes the potential and limitations of the concepts of ES and NC. OpenNESS works in close cooperation with decision makers and other stakeholders.

The specific aims of OpenNESS are:

To advance conceptual understanding of ES and NC and provide operational frameworks for application of the concepts in real-world management and decision-making situations;

To examine how existing and forthcoming EU regulatory frameworks can enhance or restore the benefits derived from ES and NC using multi-scale scenario approaches;

To develop and refine approaches for mapping and modelling the biophysical control of ES that can be used to assess the effectiveness of mechanisms, instruments and best management practices for sustaining ES delivery in the face of multiple uncertain drivers whilst conserving biodiversity;

To develop hybrid methodologies that address trade-offs, synergies and conflicting interests and values in the use of ES through a combination of monetary, non-monetary and deliberative methods within multi-criteria and Bayesian approaches to decision support;

To apply the concepts and methods developed and refined in the project to concrete, place-based case studies in a range of social-ecological systems with stakeholders and analyse the implications of local, regional and EU level decisions on the ES flows and use in other parts of the world;

To translate the results into policy recommendations and integrate the outputs in a Menu of Multi-Scale Solutions and associated datasets that are available for ES users and managers as well as decision-makers;

To disseminate the results and to promote and maintain science-policy dialogue on the use of the concepts of ES and NC in sustainable land, water and urban management.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: The Institute of Landscape Ecology of the Slovak Academy of Sciences (ILE SAS) is an interdisciplinary scientific institution of basic and applied research in landscape ecology. At present, the main research tasks of the institute are: evaluating the influence of anthropogenic factors on the landscape, sustainable land use, ecological networks, preservation of biodiversity and geocodiversity, and ES. The methodology of landscape-ecological planning, LANDEP, which is included in Agenda 21 from the Rio Summit as the suggested methodology for an integrated approach to the management of natural resources (Chapter 10 in Agenda 21), was elaborated at the ILE SAS. The ILE SAS is Centre of Excellence for protection and utilisation of landscape and biodiversity. It has an important place within the frame of international cooperation. It takes part in many international projects, including projects in FP5, FP6 and FP7 EC Framework Programmes. The Institute is also involved in education.

SK Participant Project Cost: EUR 169 614.4

SK Participant EC Financial Contribution: EUR 127 210

Project Outcomes planned/real: Despite improved

understanding of the links between ecosystem health, provision of ecosystem services and human well-being, further conceptual and empirical work is needed to make the ideas of ecosystem services (ESS) and natural capital (NC) operational. OpenNESS will therefore develop innovative and practical ways of applying them in land, water and urban management: it will identify how, where and when the concepts can most effectively be applied to solve problems. To do this, it will work with public and private decision makers and stakeholders to better understand the range of policy and management problems faced in different case study contexts (ranging across locales, sectors, scales and time). OpenNESS will consolidate, refine and develop a range of spatially-explicit methods to identify, quantify and value ecosystem services, and will develop hybrid assessment methods. It will also explore the effectiveness of financial and governance mechanisms, such as payments for ecosystem services, habitat banking, biodiversity offsetting and land and ecosystem accounting. These types of interventions have potential for sustaining ESS and NC, and for the design of new economic and social investment opportunities. Finally, OpenNESS will assess how current regulatory frameworks and other institutional factors at EU and national levels enable or constrain consideration of ESS and NC, and identify the implications for issues related to well-being, governance and competitiveness. OpenNESS will analyse the knowledge that is needed to define ESS and NC in the legal, administrative and political contexts that are relevant to the EU.

Slovak Participant's Role in Project: The main contribution of ILE SAS will be in WP5 by operationalising the concepts of NC and ES in the integrated management of urban landscape. ILE SAS will also contribute to WP1 (identification of the potential of ES and NC at local and national levels, sustainable management of biodiversity) and WP2 (investigate knowledge needs and challenges of policy-makers and decision-makers especially in the Slovak context).

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: REGIOPLÁN Nitra is an association of independent experts in the field of environment (Nitra, Slovakia). The company has broad experience in project management – about 100 environmental projects on local, regional and national levels (mostly in Slovakia). Its clients are e.g. state departments, regional and local authorities, universities, and business enterprises. Main activities: 1) Environmental and ecological research (landscape-ecological plans and ecological network projects, environmental research and evaluation for urban planning process), 2) Land parcelling projects (nature conservation and ecological networks projects, agriculture and forestry planning), 3) Environmental impact assessment (screening and scoping projects - road construction, water management, waste disposal, technical infrastructure, recreation, industry), 4) Sustainable development studies (National strategy of sustainable development for Slovakia, system of sustainable development indicators in Slovakia and Czech Republic, Sustainable Development Index for world countries).

SK Participant Project Cost: EUR 86 241.6

SK Participant EC Financial Contribution: EUR 64 681

Project Outcomes planned/real: OpenNESS aims to translate the concepts of natural capital and ecosystem

services into operational frameworks that provide solutions for integrated land, water and urban management and decision-making. It examines how the concepts link to wider EU economic, social and environmental policy initiatives. Main outcomes of the project: 1) Developing and refining approaches for mapping and modelling the biophysical control of ecosystem services, 2) Developing hybrid methodologies for addressing trade-offs, synergies and conflicting interests and values in the use of ecosystem services through a combination of monetary, non-monetary and deliberative methods, 3) Applying the concepts and methods into concrete, place-based case studies in a range of social-ecological systems with stakeholders and analysing the implications of local, regional and EU level decisions (24 case studies), 4) Translating the results into policy recommendations and integrating the outputs in multi-scale solutions and associated datasets that are available for decision-makers, managers and other users, 5) Disseminating the results and promoting science-policy dialogue on the use of the concepts of ecosystem services in sustainable land, water and urban management. Outcomes for Regioplan: Specific tasks are described in the next section, the overall outputs are e.g. establishing and widening of international contacts, gaining new experiences in the fields of landscape planning and spatial management of ecosystem services and natural capital.

Slovak Participant's Role in Project: Role of the Regioplan in the project: Development of a case study for the Slovak Republic in the field of ecosystem services (ES) implementation in Slovakia (together with another Slovak project partner – Institute of Landscape Ecology of SAS, Bratislava): Landscape-ecological planning in urban and peri-urban area – case study Trnava, Slovakia. Main goal of the study: Evaluation of the current state of the ES framework implementation in Slovakia and proposal of the suitable methods for the landscape and spatial planning towards ES concept at local and regional level. Specific goals: 1) Review of existing planning and strategic documents, 2) Collection of GIS spatial datasets on landscape parameters, their interpretation and synthesis, 3) Assessment of selected ES by modified cascade model and several valuation methods, 4) Implementation of participatory approaches (involvement of stakeholders) in ES valuation. Participation in working meetings and conferences of the project is expected, as well as presentation of results, collaboration with other partners as an important part of research.

POPART

Project ID: 212218

Project Title: Strategy for the preservation of plastic artefacts in museum collections

Project website: <http://popart.mnhn.fr/>

Project Start Date: 2008-10-01

Project End Date: 2012-03-31

Project Total Cost: EUR 2 920 274

Project EC Financial Contribution: EUR 2 099 655.52

Slovak participant Name: USTAV POLYMEROV SLOVENSKEJ AKADEMIE VIED, Polymer Institute, Slovak Academy of Sciences

Slovak participant address: DUBRAVSKA CESTA 9, 845 41 BRATISLAVA

Contact person email/ phone: Dr. Zuzana Hlouskova, upolzhlo@savba.sk, +42 125 479 3610

Partners of the Consortium:

CNRS - FRANCE

VICTORIA & ALBERT MUSEUM - UNITED KINGDOM

NATIONAL MUSEUM - DENMARK

IFAC - CNR - ITALY

INSTITUUT COLLECTIE NEDERLAND - NETHERLANDS

ATELIER RÉGIONAL DE CONSERVATION NUCLÉART - FRANCE

SOLMATES BV - NETHERLANDS

MORANA RTD D.O.O. - SLOVENIA

UNIVERSITY COLLEGE OD LONDON - UNITED KINGDOM

THE J. PAUL GETTY TRUST - UNITED STATES

USTAV POLYMEROV SLOVENSKEJ AKADEMIE VIED, POLYMER INSTITUTE, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The project addresses the issues with a large and interesting group of synthetic materials in collections of 'modern' objects from the nineteenth and twentieth century. It tackles the identification, characterisation, deterioration and stabilisation of plastics that are less stable than was once believed.

Project Objectives: The project is intended to develop a pan-European strategy that targets better conservation and maintenance of plastics in museum collections. The goal is to develop statistical tools to analyse spectral data from a portable near infrared (NIR) spectroscopic tool. Near infrared spectroscopy is used in diffuse reflectance mode allowing non-invasive analysis and non-contact characterisation of 3D objects if coupled to a fibre optic probe.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 229 760

SK Participant EC Financial Contribution: EUR 177 840

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

RE CARE

Project ID: 603498

Project Title: Preventing and Remediating degradation of soils in Europe through Land Care

Project website: <https://www.wageningenur.nl/en/show/Preventing-and-remediating-degradation-of-soils-in-Europe-through-land-care.htm>

Project Start Date: 2013-11-01

Project End Date: 2018-10-31

Project Total Cost: EUR 10 917 791.27

Project EC Financial Contribution: EUR 8 549 525

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

Slovak participant address: VAZOVVA 5, 812 43 BRATISLAVA

Contact person email/ phone: Mrs. Kamila Hlavcova, kamila.hlavcova@stuba.sk, +4212 59274620

Partners of the Consortium:

WAGENINGEN UNIVERSITY - NETHERLANDS

AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS - SPAIN

UNIVERSITY OF LEEDS - UNITED KINGDOM

UNIVERSITAT DE VALENCIA - SPAIN

AARHUS UNIVERSITET - DENMARK

TECHNICAL UNIVERSITY OF CRETE - GREECE

UNIVERSIDADE DE AVEIRO - PORTUGAL

UNIVERSITA DEGLI STUDI DI PADOVA - ITALY

LANDGRAEDSLA RIKISINS - ICELAND

UNIVERSITAET BERN - SWITZERLAND

SVERIGES LANTBRUKSUNIVERSITET - SWEDEN

CONSULT AND RESEARCH ON PARTICIPATION AND GENDER - COREPAGE - CLARINGBOULD HELEEN ELSA - NETHERLANDS

INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU PEDOLOGIE, AGROCHIMIE SI PROTECTIA MEDIULUI - ROMANIA

THE CYPRUS INSTITUTE LIMITED - CYPRUS

RESEARCH INSTITUTE FOR KNOWLEDGE SYSTEMS BV - NETHERLANDS

KONGSKILDE INDUSTRIES AS - DENMARK

ECOLOGIC INSTITUT GEMEINNÜTZIGE GMBH - GERMANY

STICHTING INTERNATIONAL SOIL REFERENCE AND INFORMATION CENTRE - NETHERLANDS

UMWELTBUNDESAMT GMBH - AUSTRIA

STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK - NETHERLANDS

INSTYTUT UPRAWY NAWOZENIA I GLEBOZNAWSTWA, PANSTWOWY INSTYTUT BADAWCZY - POLAND

JRC - JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM

UNIVERSITY OF GLOUCESTERSHIRE - UNITED KINGDOM

EVENOR TECH SL - SPAIN

CRANFIELD UNIVERSITY - UNITED KINGDOM

NORWEGIAN INSTITUTE FOR AGRICULTURAL AND ENVIRONMENTAL RESEARCH - BIOFORSK - NORWAY

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: Although there is a large body of knowledge available on soil threats in Europe, this knowledge is fragmented and incomplete, in particular regarding the complexity and functioning of soil systems and their interaction with human activities. The cross-cutting aim of the RE CARE project is to fill the knowledge gaps in the understanding of the complexity and functioning of soil systems and their interaction with human activities.

Project Objectives: The main aim of RE CARE is to develop effective prevention, remediation and restoration measures using an innovative trans-disciplinary approach, actively integrating and advancing knowledge of stakeholders and scientists in 17 Case Studies, covering a range of soil threats in different bio-physical and socio-economic environments across Europe. Within these Case Study sites, i) the current state of degradation and conservation will be assessed using a new methodology, based on the WOCAT mapping procedure, ii) impacts of degradation and conservation on soil functions and ecosystem services will be quantified in a harmonized, spatially explicit way, accounting for costs and benefits, and possible trade-offs, iii) prevention, remediation and restoration measures selected and implemented by stakeholders in a participatory process will be evaluated regarding efficacy, and iv) the applicability and impact of these measures at the European level will be assessed using a new integrated bio-physical and socio-economic model, accounting for land use dynamics as a result of for instance economic development and policies. Existing national and EU policies will be reviewed and compared to identify potential incoherence, contradictions and synergies. Policy messages will be formulated based on the Case Study results and their integration at European level. A comprehensive dissemination and communication strategy, including the development of a web-based Dissemination and Communication Hub, will accompany the other activities to ensure that project results are disseminated to a variety of stakeholders at the right time and in the appropriate formats to stimulate renewed care for European soils.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 378 614.13

SK Participant EC Financial Contribution: EUR 290 120.2

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

RESPONDER

Project ID: 265297

Project Title: linking REsearch and POlicy making for managing the contradictions of sustaiNable consumption anD Economic gRowth

Project website: <http://www.scp-responder.eu/>

Project Start Date: 2011-01-01

Project End Date: 2014-06-30

Project Total Cost: EUR 1 655 174.96

Project EC Financial Contribution: EUR 1 499 351.1

Slovak participant Name: PROGNOŠTICKÝ ÚSTAV SLOVENSKEJ AKADEMIE VIED, The Institute for Forecasting of the Slovak Academy of Sciences

Slovak participant address: Šancová 56, 811 05 BRATISLAVA

Contact person email/ phone: Mgr. Richard Filčák, MSc., PhD., richard.filcak@yahoo.com, +421 252495300

Partners of the Consortium:

WIRTSCHAFTSUNIVERSITÄT WIEN - AUSTRIA

DANMARKS TEKNISKE UNIVERSITET - DENMARK

AALBORG UNIVERSITET - DENMARK

UNIVERSITY OF SURREY - UNITED KINGDOM

FUNDAÇÃO DA FACULDADE DE CIÊNCIAS E TECNOLOGIA DA UNIVERSIDADE NOVA DE LISBOA - PORTUGAL

BUNDESMINISTERIUM FÜR UMWELT, NATURSCHUTZ UND REAKTORSICHERHEIT - GERMANY

UNIVERSITAT AUTONOMA DE BARCELONA – SPAIN

INSTITUT FÜR ÖKOLOGISCHE WIRTSCHAFTSFORSCHUNG GMBH –IOW - GERMANY

SERI - NACHHALTIGKEITSFORSCHUNGS UND -KOMMUNIKATIONS GMBH - AUSTRIA

FEDERAL DEPARTMENT FOR ENVIRONMENT TRANSPORTS ENERGY AND COMMUNICATION – SWITZERLAND

PROGNOŠTICKÝ ÚSTAV SLOVENSKEJ AKADEMIE VIED, THE INSTITUTE FOR FORECASTING OF THE SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The project dealt with potential political, social and economic contradictions between sustainable consumption and economic growth. It focused on consumption decisions made by private households, considering their rationalities, options and factors affecting their decision making, and focusing on the impacts of these decisions on sustainability and/or economic growth as well as viable policy options.

Project Objectives: The overall aim of RESPONDER was to promote sustainable consumption by exploring novel ways of knowledge brokerage that help improve the management of potential political, social and economic contradictions with economic growth. RESPONDER did not conduct new research in this area, but exploit existing research by new integrative modalities of linking research results to policy-making.

The innovative potential of RESPONDER lied in the methodology for knowledge brokerage, its professional application in different policy areas and the systematic assessment of the experience gained during the course of

the project. This first group of objectives represented the scientific angle of RESPONDER aiming at innovation and progress beyond the state of the art of knowledge brokerage and comprises the following operational objectives:

set a clear focus and gain a unique position towards existing initiatives;

start on the basis of a sound and appropriate methodology;

develop innovative demand-oriented tools for knowledge brokerage;

implement and test the knowledge brokerage system to gain experiences;

secure a high quality of results and continuous improvement;

support the transfer to other policy areas;

achieve significant impact in science.

Profile of Slovak Participant/ -s: The Institute for Forecasting of the Slovak Academy of Sciences was established on 1 January 1989. The Institute acts both as a research body and government think-tank for design of various policies. The Institute for Forecasting concentrates on interdisciplinary research in the following areas:

a) theoretical, methodological and conceptual issues of the Slovak society in national and world-wide context;

b) human dimension of global environmental change,

c) co-evolution of institutional and technology change.

The Institute offers for a doctoral study programme in the field of Forecasting (research field No 5.1.2 'Spatial Planning') and participates in other PhD programmes such as Environmental Planning and Management (Comenius University). The Institute coordinates international educational programmes (Marie Curie projects: Emerging Theories and Methods in Sustainability Research –THEMES and Multi-level Governance of Natural Resources: Tools and Processes for Water and Biodiversity Governance in Europe – GoverNat.) Fellows of the Institute act as visiting lecturers at universities, and are involved in international science programmes and associations.

The Centre for Trans-disciplinary Study of Institutions, Evolution and Policies is a virtual research centre dedicated to introducing ideas from institutional, co-evolutionary and ecological economics and established in May 2008 to support trans-disciplinary research and training in Europe, primarily in the region of Central and Eastern Europe.

The University of Economics in Bratislava (UEB) has traditionally been a major research and education partner for the Institute for Forecasting. The Institute and UEB jointly provided for doctoral studies in the field of Forecasting. Research staff of both institutions cooperate in a number of scientific projects.

Comenius University in Bratislava is the oldest and most important university in Slovakia. It cooperates with the Institute for Forecasting in the field of global environmental change. The Slovak University of Technology in Bratislava, the Comenius University and the Institute of Forecasting jointly manage the SPECTRA+ Centre of Excellence, supported by the Structural Funds.

Members of the Institute developed rich networks of cooperation with several universities in Europe and in the world. Examples are Edward de Bono (Malta), Corvinus University in Budapest, London Metropolitan University (UK), Center for the Study of Institutional Diversity, Arizona State University, IEEP (www.ieep.cz) at the Economic University in Prague Interdisciplinary Centre for Comparative Research in the Social Sciences (Austria), Sežéchenyi István University (Hungary), University of Exeter (UK) and others. Members of the institute are involved in the activities of international academic programmes such as International Human Dimension Programme of Global Environmental Change (IHDP) (www.ihdp.org) or academic societies such as the European Society for Ecological Economics (ESEE) (www.ecolecon.org).

Since 1998, the Institute has co-published the leading Slovak journal on economics "Ekonomický časopis" (Journal of Economics). The Institute also publishes its own editions: The Forecasting Papers (journal) and Studies and, Open Series editions. The Institute for Forecasting undertakes policy consulting in areas of economics, social system, science and technology and environmental issues for the needs of central, regional and local governments and important national and international organizations. Its most important clients included the Government of the Slovak Republic, the Prime Minister's Office and Ministries of Economics, Finance, Environment, Labour, Social Affairs and Family, Environment and Agriculture; the European Commission, the World Bank, the International Monetary Fund, OECD etc.

SK Participant Project Cost: EUR 103 600

SK Participant EC Financial Contribution: EUR 95 500

Project Outcomes planned/real: The main goal of the project was to develop, implement and evaluate a knowledge brokerage system on managing the contradictions of sustainable consumption and economic growth. Therefore the project did not just aim to bridge the gap between science and policy, but also to improve the mutual understanding between what could be called the "pro-growth community" (i.e. economists and policy makers oriented towards the EU Lisbon Strategy) and the "beyond-growth community" (i.e. scientists oriented towards the limits to growth and policy makers involved in the sustainable development debate). In a series of EU dialogues a system map of sustainable consumption and economic growth was developed together by researchers and policy makers in order to understand paradigmatic contradictions, conflicts of interest and trade-offs. The map constitutes the basis for systematizing empirical findings, questioning different assumptions, analysing policies and identifying new research questions. In a series of multinational knowledge brokerage events, the generic map was applied to five policy areas (housing, energy, financial, transport and agricultural policies). An internet-based knowledge platform supports continuous dialogue by "trading" information on facts, trends, policies and experiences based on system maps. Policy makers will benefit from RESPONDER by experiencing innovative forms of knowledge brokerage, by getting easy access to research findings and by networking. Researchers will benefit by better understanding the rationality of decision makers, by getting access to them, by improving the mutual understanding across different paradigms and by elaborating a joint research agenda.

IF SAS: The project focused on supporting the development and implementation of knowledge exchange in the relations between research and policy making in order to support analysis of the problems and possibilities of various approaches to address conflicts between the sustainability of consumption and economic growth. IF SAS, a regional partner in WP 5, focused on the organization of activities aimed at creating a platform for the development of transport policy and the other on the issue of sustainable mobility.

Slovak Participant's Role in Project: IF SAS significantly contributed to the conceptual development of the knowledge brokerage approach (WP1) with NAIAD (Novel Approach to Imprecise Assessment and Decision Environments) and MCM (Multicriteria mapping). In addition, IF SAS acted as regional partner in WP6 and organized two multinational knowledge brokerage events on transport policies and sustainable mobility in Bratislava. This fits well to the importance of the automotive sector in the Slovak Republic and the background knowledge of the IF SAS team in innovation and technology policies. IF SAS actively worked as a member of the consortium which consists of 5 universities, 3 research institutes and two ministries; the advisory body of the project included members of the European Parliament, the business community, NGOs and the OECD.

SMARTOPENDATA

Project ID: 603824

Project Title: Linked Open Data for environment protection in Smart Regions

Project website: <http://www.smartopendata.eu/>

Project Start Date: 2013-11-01

Project End Date: 2015-10-31

Project Total Cost: EUR 3 189 858.25

Project EC Financial Contribution: EUR 2 355 400

Slovak participant Name: SLOVENSKA AGENTURA ZIVOTNEHO PROSTREDIA, Slovak Environment Agency

Slovak participant address: TAJOVSKÉHO 28, 975 90 BANSKA BYSTRICA

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Partners of the Consortium:

EMPRESA DE TRANSFORMACION AGRARIA SA - SPAIN

STIFTELSEN SINTEF - NORWAY

LATVIJAS UNIVERSITATES MATEMATIKAS UN INFORMATIKAS INSTITUTS - LATVIA

UNIVERSIDAD POLITECNICA DE MADRID - SPAIN

THE NATIONAL MICROELECTRONICS APPLICATIONS CENTRE LTD - ÉIRE/IRELAND

FONDAZIONE BRUNO KESSLER - ITALY

DIRECAO GERAL DO TERRITORIO - PORTUGAL

CESKE CENTRUM PRO VEDU A SPOLECNOST - CZECH REPUBLIC

SINDICE LIMITED - ÉIRE/IRELAND

MID-WEST REGIONAL AUTHORITY - ÉIRE/IRELAND

HELP SERVICE - REMOTE SENSING SRO - CZECH REPUBLIC

AGENZIA REGIONALE PER LA PROTEZIONE DELL'AMBIENTE - ITALY

USTAV PRO HOSPODARSKOU UPRAVU LESU BRANDYS NAD LABEM - CZECH REPUBLIC

SPAZIODATI SRL - ITALIA

GEIE ERCIM - FRANCE

SLOVENSKA AGENTURA ZIVOTNEHO PROSTREDIA, Slovak Environment Agency

Project Description: SmartOpenData will create a Linked Open Data infrastructure (including software tools and data) fed by public and freely-available data resources, existing sources on biodiversity and environment protection and research in rural and European protected areas and its National Parks.

This will provide opportunities for SMEs to generate new innovative products and services that can lead to the emergence of new businesses in the environmental, regional decision-making and policy areas among others. The value of the data will be greatly enhanced by making it available through a common query language that gives access to related datasets available in a linked open data cloud.

The commonality of data structure and query language will overcome the monolingual nature of typical datasets, making them available in multiple languages.

Project Objectives: The vision of the SmartOpenData project is that environmental and geospatial data concerning rural and protected areas can be more readily available and re-usable, better linked with data without direct geospatial reference so different distributed data sources could be easily combined together. SmartOpenData will use the power of Linked Open Data to foster innovation within the rural economy and increase efficiency in the management of the countryside. The project will prove this in a variety of pilot programmes in different parts of Europe.



SmartOpenData goal is making INSPIRE/GMES/GEOS infrastructure better available for citizens, but also mainly for SME developers. On one hand, Europe and EU invest hundreds of millions of Euros in building the INSPIRE infrastructure. On the other hand, most of European SMEs and citizens use for their applications Google maps. National and regional SDIs offer information which is not available on Google, but this potential is not used. One of the main goals of SmartOpenData is making European Spatial Data easily re-usable not only by GIS experts but also by SMEs.

In order to support Open Data Strategy for Europe and increase re-use of open public data from the European Commission, where possible, SmartOpenData will use data and services from EC Open Data Portal2. In addition, any application built on this data source will be registered on the portal. The Same initiative is ongoing on national level, where SmartOpenData participants will try to disseminate the project outcomes in the same way.

Profile of Slovak Participant/ -s: SAZP (Slovak Environment Agency) is a public sector organisation of the Ministry of the Environment of the Slovak Republic (MoE SR) which focuses on environmental protection and landscape planning in accordance with the principles of sustainable development. Together with legislation implementation support, the Agency is a registered research body. SAZP acts as Member state contact point and coordinator for INSPIRE (<http://inspire.ec.europa.eu/index.cfm/pageid/481>), and as the coordinating body for Copernicus-related activities (<http://www.copernicus.eu/>). SAZP is also the National Focus Point for the European Environment Agency in the Slovak Republic (<http://www.eea.europa.eu/about-us/countries-and-eionet/list-of-members-of-the-nfp-eionet-group>). In the field of environmental monitoring and informatics, SAZP is actively involved in the area of design, development and implementation of environmental information systems with focus on geoinformatics, driven by legislation, relevant standards, IT evolution and stakeholders requirements.

SK Participant Project Cost: EUR 135 200

SK Participant EC Financial Contribution: EUR 93 745

Project Outcomes planned/real: The main aim/outcome of the project is to define mechanisms for acquiring, adapting and using Open Data provided by existing sources for environment protection. Through target pilots in these areas, the project will harmonise metadata, improve spatial data fusion and visualisation and publish the resulting information according to user requirements and Linked Open Data principles to provide new opportunities for SMEs.

Main real outcomes:

- Requirements of SmartOpenData infrastructure
- User Requirements and Use Cases

Main planned outcomes:

- Architecture of SmartOpenData infrastructure
- SmartOpenData data model
- SmartOpenData Semantic Front-end Facilities
- Demonstration Pilots
- Evaluation, Assessment and User groups
- Final Liaisons Report
- Market Analysis and Exploitation Report

Slovak Participant's Role in Project: Through participation in this project, Slovak Environmental Agency will gain experience with the use of semantic technologies via transformation of existing relational spatial data into open linked data. This experience will significantly contribute to overall activities supporting transparent governance and open government partnership.

The main focus of the SAZP involvement is envisaged in the following activities:

- representing the interests of the public sector,
- environmental data provision,
- contributing requirements definition on SmartOpenData infrastructure,
- identifying the use cases as a base for Environmental data reuse pilot,
- participating in definition of SmartOpenData architecture,
- designing, developing and deploying Environmental data reuse pilot,
- leading activities on Visualisation framework,
- designing, setting up and maintaining user group actions as indicators for activities best representing progress of the project,
- taking part in dissemination activities.



SOLUTIONS

Project ID: 603437
 Project Title: Solutions for present and future emerging pollutants in land and water resources management
 Project website: <http://www.solutions-project.eu/project/>
 Project Start Date: 2013-10-01
 Project End Date: 2018-09-30
 Project Total Cost: EUR 16 296 451
 Project EC Financial Contribution: EUR 11 988 935
 Slovak participant Name: ENVIRONMENTAL INSTITUTE s.r.o.
 Slovak participant address: Okružna 784/42, 97241 KOS
 Contact person email/ phone: Dr. Jaroslav Slobodnik, slobodnik@ei.sk, +421 465420719
Partners of the Consortium:
 HELMHOLTZ-ZENTRUM FUER UMWELTFORSCHUNG GMBH - UFZ - GERMANY
 AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS - SPAIN
 VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V. - BELGIUM
 STICHTING DELTARES - NETHERLANDS
 RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN - GERMANY
 BRUNEL UNIVERSITY - UNITED KINGDOM
 NANJING UNIVERSITY - CHINA
 UNIVERSITEIT UTRECHT - NETHERLANDS
 MERMAYDE - NETHERLANDS
 STOCKHOLMS UNIVERSITET - SWEDEN
 KOCCOC.NET GMBH - GERMANY
 FAUST UND BACKHAUS ENVIRONMENTAL CONSULTING GBR - GERMANY
 STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK - NETHERLANDS
 MAXX MESS- UND PROBENAHEMETECHNIK GMBH - GERMANY
 NORSK INSTITUTT FOR VANNFORSKNING - NORWAY
 HAMMERBACHER GMBH - GERMANY
 INSTITUT NATIONAL DE L ENVIRONNEMENT ET DES RISQUES INERIS - FRANCE
 IVL SVENSKA MILJOINSTITUTET AB - SWEDEN
 GOETEBORGS UNIVERSITET - SWEDEN
 SYNCHER LABORGEMEINSCHAFT UG & CO KG - GERMANY
 INTERNATIONAL COMMISSION FOR THE PROTECTION OF THE DANUBE RIVER - AUSTRIA
 RIJKSINSTITUUT VOOR VOLKSGEZONDHEIDEN MILIEU* NATIONAL INSTITUTE FOR PUBLIC HEALTH AND THE ENVIRONMENTEN - NETHERLANDS
 MASARYKOVA UNIVERZITA - CZECH REPUBLIC
 THE UNIVERSITY OF LIVERPOOL - UNITED KINGDOM
 UNIVERSITAET BERN - SWITZERLAND
 CARL VON OSSIETZKY UNIVERSITAET OLDENBURG - GERMANY
 KWR WATER B.V. - NETHERLANDS
 THE UNIVERSITY OF BIRMINGHAM - UNITED KINGDOM
 OEKO-INSTITUT E.V. - INSTITUT FUER ANGEWANDTE OEKOLOGIE - GERMANY
 PROF DR ASEN ZLATAROV UNIVERSITY - BULGARIA
 THE UNIVERSITY OF QUEENSLAND - AUSTRALIA

JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM
 LEIBNIZ-INSTITUT FUR PFLANZENBIOCHEMIE - GERMANY
 UNIVERSITY OF NOVI SAD FACULTY OF SCIENCES - SERBIA
 UNIVERSIDADE ESTADUAL DE CAMPINAS - BRAZIL
 DYNAMIC EXTRACTIONS LTD - UNITED KINGDOM
 EIDGENOESSISCHE ANSTALT FUR WASSERVERSORGUNG ABWASSERREINIGUNG UND GEWAESSERSCHUTZ - SWITZERLAND
 WATCHFROG - FRANCE
 ENVIRONMENTAL INSTITUTE s.r.o.- SLOVAKIA

Project Description: SOLUTIONS will deliver a conceptual framework for the evidence-based development of environmental and water policies. This will integrate innovative chemical and effect-based monitoring tools with a full set of exposure, effect and risk models and assessment options. Uniquely, SOLUTIONS taps (i) expertise of leading European scientists of major FP6/FP7 projects on chemicals in the water cycle, (ii) access to the infrastructure necessary to investigate the large basins of Danube and Rhine as well as relevant Mediterranean basins as case studies, and (iii) innovative approaches for stakeholder dialogue and support. In particular, International River Commissions, EC working groups and water works associations will be directly supported with consistent guidance for the early detection, identification, prioritization, and abatement of chemicals in the water cycle. A user-friendly tool providing access to a set of predictive models will support stakeholders to improve management decisions, benefiting from the wealth of data generated from monitoring and chemical registration.

Project Objectives: SOLUTIONS will give a specific focus on concepts and tools for the impact and risk assessment of complex mixtures of emerging pollutants, their metabolites and transformation products. Analytical and effect-based screening tools will be applied together with ecological assessment tools for the identification of toxicants and their impacts. Beyond state-of-the-art monitoring and management tools will be elaborated allowing risk identification for aquatic ecosystems and human health. The SOLUTIONS approach will provide transparent and evidence-based lists of River Basin Specific Pollutants for the case study basins and support the review of the list of WFD priority pollutants.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 876 193

SK Participant EC Financial Contribution: EUR 711 674

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SYSTEQ

Project ID: 226694
 Project Title: The development, validation and implementation of human systemic Toxic Equivalencies (TEQs) as biomarkers for dioxin-like compounds
 Project website: <http://www.systeoproject.eu>
 Project Start Date: 2009-02-01
 Project End Date: 2013-11-30
 Project Total Cost: EUR 3 532 263.35
 Project EC Financial Contribution: EUR 2 703 596.26
 Slovak participant Name: SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, The Slovak Medical University in Bratislava
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 SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, THE SLOVAK MEDICAL UNIVERSITY IN BRATISLAVA- SLOVAKIA

Project Description: Chlorinated dioxins and biphenyls (PCBs) commonly occur in the human food chain and can still be detected at levels that might cause long-term health effects. Exposure to dioxin-like compounds involves a complex mixture with a common mechanism of action involving endocrine, developmental, carcinogenic, immune and neurological effects. Risk assessment is performed with an additive model for mixture toxicity. Based on this the Toxic Equivalency (TEQ) concept was developed as a biomarker for exposure and risk.

TEQs are the sum of congener-specific toxic equivalency factors (TEFs) multiplied by the concentration in a matrix, e.g., blood. TEF values are a composite quantitative value from a range of biomarkers that are congener- and endpoint-specific. Present human TEQs have been derived from oral administration experiments providing 'intake' TEFs. Regulatory authorities frequently use 'intake' TEQs for blood and tissues considering it a biomarker for exposure or effect. Experimental evidence shows that using 'uptake' TEQs as 'systemic' biomarkers may lead to misinterpretation of risks. Therefore, development and validation of 'systemic' TEFs and TEQs as biomarkers is necessary.

Project Objectives: Major objectives of SYSTEQ are: 1) establish 'systemic' TEFs and TEQs; 2) identify novel quantifiable biomarkers with newest molecular methods, e.g., genetic fingerprinting profiles; 3) extra focus on effects in peripheral lymphocytes as biomarkers; 4) identify differences between humans and experimental species. The 'systemic' TEFs and TEQs from SYSTEQ will be used in conjunction with results of the completed EU-funded PCBRISK project, in which two populations from Slovakia with very different exposure were studied. Individual blood levels and different biomarkers are already available. Results of SYSTEQ are also going to be used to establish international consensus values of 'systemic' TEFs at WHO level, facilitating the global use of 'systemic' TEQs as biomarkers of effect and exposure.

Profile of Slovak Participant/ -s: Slovak Medical University (SMU) is the single institution in Slovakia within the competence of the Slovak Ministry of Health, focused on education in medicine and health care and involved in health research. The major expertise of SMU is in the area of environmental health, mainly the impact of environmental factors on population, with experience in environmental monitoring and human biomonitoring, environmental and occupational epidemiology and genetic toxicology, incl. research into biomarkers of exposure, effect and susceptibility.

SMU provides multidisciplinary oriented research and it has participated in numerous EU projects within the 5th, 6th and 7th Framework Programmes (FIBRETOX, PLUTOCRACY, PCBRISK, MODELKEY, INTARESE, HENVINET, HEIMTSA, COMICS, NewGeneris, ENVIRISK, SYSTEQ, OBELIX, DENAMIC) as well as PHARE and NIH projects. SMU was acknowledged as the EU Centre of Excellence in Environmental Health Research (HEAR NAS, QLAM-2001-00445, New Approaches to Hazard and Risk Assessment, Improving Environmental Health Research and Management in Newly Associated States) in 2002.

Department of environmental medicine of SMU is focused mainly on epidemiological research of health effects of environmental exposure to toxic compounds, with major interest in susceptible subpopulations, incl. pregnant women and children.

SK Participant Project Cost: EUR 64 000

SK Participant EC Financial Contribution: EUR 48 000

Project Outcomes planned/real: Risk assessment of dioxin-like compounds (DLCs) is using a method in which each compound is assigned a toxic equivalency factor (TEF) by the WHO. This methodology is based on the fact that these DLCs are acting additively when present in mixtures. However, the present TEFs are only intended for estimating risks after oral intake, e.g. by consumption of food products and breast milk. Using these TEF values for human tissues or blood for risk are scientifically unsupported and may be unsound. The major objective of the EU-SYSTEQ project was to establish if separate systemic-TEFs should be established for human risk assessment of DLCs. In addition, this project focussed on possible new biomarkers of exposure and the validity of in vitro data for human risk assessment. At the end of the EU-SYSTEQ project an international expert meeting was organized to discuss and evaluate the results obtained in this project. To determine potential novel biomarkers for DLC exposure, expression of other genes, besides the "classical" biomarkers CYP1A1, 1B1 and 1A2, were studied. Gene expression of Ahrr, Tiparp, Aldh3a1, Notch1 and Tnfaip8l3 were identified as potential candidates for novel biomarkers of DLCs. AHRR gene expression was considered to be sensitive in certain human models. Based on the EU-SYSTEQ data, CYP1A1 gene expression and activity remains the most responsive biomarker for humans. The EU-SYSTEQ human in vitro data provide support to suggest a re-evaluation of WHO-TEFs and development of human-specific TEFs for some congeners, such as PCB 126 and mono-ortho PCBs.

Slovak Participant's Role in Project: Within the 5th FP EU project PCBRIK, in a cohort of 320 adults, we examined thyroid volume (TV), serum FT4, CYP1A1 and 1B1 mRNA levels in blood lymphocytes, and serum concentration of 7 PCDD, 8 PCDF, and 11 DL-PCB congeners. The estimation of relative potencies (REPs) of individual components of the exposure mixture was based on comparing of the regression coefficient for these parameters regressed on serum concentration of the individual congeners. The derived REP data correlated with WHO-TEF values. REPs derived from TV data correlated with those from 1A1 and from FT4. REPs from FT4 data correlated with those from 1A1. REPs from 1B1 correlated with those from 1A1 for PCDFs. REPs for DL-PCBs could be derived only from 1B1 data: Our REPs calculated from thyroid and AhR endpoints reflect human exposure scenario as they are based on chronic, low dose exposures and on biomarkers reflecting body burden.

details of the structure using electrical spectroscopy.



1. Specific programme
COOPERATION

*1.7 Transport
(including aeronautics)*



ACCENT

Project ID: 213855
 Project Title: Adaptive Control of Manufacturing Processes for a New Generation of Jet Engine Components
 Project website: <http://www.accent.wzl.rwth-aachen.de/en/project.html>
 Project Start Date: 2008-07-01
 Project End Date: 2012-05-31
 Project Total Cost: EUR 6 751 753.6
 Project EC Financial Contribution: EUR 4 254 026
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 TURBOMECA SA - FRANCE
 MONDRAGON GOI ESKOLA POLITEKNIKOIA J.M.A. S.COOP. - SPAIN
 SNECMA SA – FRANCE
 TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE- SLOVAKIA

Project Description: The manufacture of safety critical rotating components in modern aero engines is by nature very conservative. In order to achieve the required engine performance, thermal and mechanical stresses are pushed to the maximum, which in turn leaves the choice of materials to exotic super alloys. These materials are classed as difficult to machine under normal circumstances, but when added to the changes in mechanical properties which occur naturally from part to part, consequently variable and often unpredictable tool life, and the ever-present possibility of random and unexpected process anomalies, machining processes can never be fully optimised. Stringent legislative controls are placed on safety critical component manufacture to ensure that parts entering service will function correctly and safely during the declared service life, and in declaring the service life for such a part, the machinability issues stated above have to be taken into consideration. Hence manufacturing process parameters are often reduced or tools are changed early to ensure part surface integrity.

The industry method adopted is to “freeze” the process following process qualification to first article inspection, and successful part validation via laboratory examination and

testing. Once frozen, no changes to process parameters are permitted without time-consuming and costly re-validation.

Project Objectives: The project allows the European Aero Engine manufacturers to improve their competitiveness by applying adaptive control techniques to the manufacture of their components. Being able to adapt the machining process to the constantly changing tool and component conditions whilst operating in a multi-dimensional “approved process window”, processes will be optimised to the prevailing conditions and no longer “frozen”. Benefits will be seen in terms of reduced part manufacturing process time, more consistent part quality in terms of geometry, surface and sub-surface properties, tool usage optimisation, elimination of costly part re-validation due to small process changes, and the possibility to improve component design due to optimised machined surfaces.



Project Goals:

- Development of a standard procedure for definition of process parameter windows for the manufacture of critical aero engine components,
- Develop methods whereby components manufactured within the process parameter window can be validated to meet demands of design and surface integrity requirements,
- Provide manufacturing with a new methodology that will allow significant reduction in recurring validation costs,
- Develop a novel standard procedure for adaptive control that is based on process monitoring techniques and will take account of factors responsible for producing variable part quality,
- Provide aero engine manufacture with a methodology that can be adapted to individual company procedures that will allow the design and manufacture of critical components to be optimised.

Profile of Slovak Participant/ -s: Technical University of Kosice (TUKE – SK)

The Faculty of Mechanical Engineering (Mech Eng) is one of the largest faculties at TUKE. The faculty has a stable quantity of students – one-fourth of all TUKE students. The Faculty currently has accredited Bachelor study programmes in 6 fields, Master study programmes in 22 fields and PhD study programmes in 13 fields. Research structures at the Faculty are very well-developed and are in accordance with the innovative development of Slovak mechanical engineering focused mainly at sophisticated engineering systems in the Eastern region of Slovakia. Recent trends in the development of the Faculty include building research laboratories (Centres of Excellence) for collaboration with national and international companies. Staff included in this project are members of the Department of Materials and Technology. The main field of research at the Department is oriented at machining, forming and welding processes as well as at the automotive industry. The Department is the largest one at the Faculty, with 5 full professors, 8 associated professors and 19 assistance professors with PhD degree and 12 PhD students.

Main fields of research in the area of machining:

- Development of standardised testing procedure for short-term tool performance testing for all relevant machining processes,
 - Classification of cutting tool-wear and tool damage,
 - Model interpretation of forces and chip formation in drilling with special respect towards surface and subsurface properties of highly stressed engine parts,
 - Application of advanced mathematical and statistical methods for experimental data acquisition and signal analysis.
- SK Participant Project Cost: EUR 180 000
 SK Participant EC Financial Contribution: EUR 135 000
 Project Outcomes planned/real: The ACCENT project planned outcomes were stated as:
- Develop a standard procedure for defining process parameter windows for the manufacture of critical aero engine components,
 - Develop methods whereby components manufactured within the process parameter window can be validated to meet the demands of design and surface integrity requirements,
 - Provide manufacturing with a new manufacturing methodology that will allow significant reduction in recurring validation costs,
 - Develop a novel standard procedure for adaptive control that is based on process monitoring techniques and will take account of factors responsible for producing variable part quality,
 - Provide aero engine manufacturers with a methodology that can be adapted to individual company procedures that will allow the design and manufacture of critical components to be optimized.

Real outcomes for TUKE: TUKE activities were focused at mathematical description and Artificial Neural Network (ANN) modelling of experimental results. TUKE proposed mathematical dependences to describe correlation among process variables (cutting conditions) and tool wear, and surface roughness (surface integrity). The proposed mathematical model and algorithm for decision-making process create inputs to adaptive control strategy in monitoring of surface anomalies for different process/material combination investigated within the project.

Moreover, TUKE proposed and worked out ANN models for tool wear and surface roughness prediction. The proposed system is comprised of two major subsystems. The first subsystem predicts flank wear and provides this as input into the second subsystem which predicts surface roughness as an SI indicator. The whole system is a part of adaptive control for various process/material combinations.



Slovak Participant's Role in Project: TUKE, though not directly involved in machining trials, will have the overall responsibility for method and algorithm definition of the process validation window and adaptive control strategies. TUKE was responsible for partial tasks in WP 2 and WP 3, and participated in final project preparation in WP4 and WP5, as follows:

WP2 Standardisation of multi-dimensional processes

Task 2:5 Definition of process validation windows

S 2.5.1 analysis of generated data in 2.4.1

S 2.5.2 setting process window frames for process signal levels

S 2.5.3 setting process window frames for process parameters

S 2.5.4 creation of multi-dimensional window axes

WP3 Adaptive Control and Monitoring

Task 3.4 Report: suitable adaptive control systems

S 3.4.1 development of the control strategies.

AIRTN

Project ID: 235476
Project Title: Air Transport Net (AirTN)
Project website: <http://www.airtn.eu/>
Project Start Date: 2010-01-01
Project End Date: 2013-12-31
Project Total Cost: EUR 2 090 537.47
Project EC Financial Contribution: EUR 1 900 000

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ROMANIAN SPACE AGENCY – ROMANIA
GENIKI GRAMMATIA EREVNAS KAI TECHNOLOGIAS, YPOURGIO PAIDIAS, DIA VIΟΥ MATHISIS & - THRSKEVMATON – GREECE
NEMZETI KUTATASI ES TECHNOLOGIAI HIVATAL - HUNGARY

Project Description: The AirTN ERA-Net was established under FP6 as a network of Member States whose ministries and agencies manage public funded national research activities and programmes in Aeronautics and Air Transport. The results from AirTN in FP6 are prerequisites for the implementation of joint activities to enhance co-operation and coordination of national and regional research programmes.



Project Objectives: AirTN in FP7 will strengthen this coordination and strive for long lasting co-operation. It will bring added value to the foundation of the European Research Area and the development of a European Research Policy, especially in relation to aeronautics and air transport. The focus will be on the Implementation of Joint Activities and the funding of transnational research. The governing objective of all AirTN activities is to tinue strengthening the European Research Area within the framework of the ACARE Strategic Research Agenda.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: The Air Transport Department is an educational and research workplace of the University aimed at air transport. The Department provides study programs in the field of Air Transport. The studies are provided in a three – tier course structure of university education in accredited branches of bachelor, engineer and PhD. programs.

Air Transport Department is also the base of the National Civil Aviation Security Training Centre of the Slovak Republic. The Centre runs basic aviation security courses in line with the EU regulations for all categories of personnel in aviation.

Consultation and research activities of the Department are oriented to solving tasks related to airport design and operations, air transport security and safety, management of air traffic services, standardisation of airborne alert and warning systems. The Department of Air Transport is ACI recognized educational institution a member of the EASN (European Aeronautical Science Network). The Air Transport Department (ATD) has:

- Extensive knowledge of airport operation and processes from both airport and other stakeholders' points of view.
- Extensive knowledge of airline business and operations.
- Extensive experience with fast-time simulations of airport landside operations as well as with modelling of passenger behaviour.
- Understanding of external links of airports to other transport modes, so as the relationships of interlinked airports' catchment areas
- In-depth knowledge about the development on the air transport market in Slovakia and in the Czech Republic but also other Central European countries.
- Wide experience in conducting consultations with stakeholders, various passenger surveys and operational data collection exercises.

SK Participant Project Cost: EUR 75 818.69

SK Participant EC Financial Contribution: EUR 67 605

Project Outcomes planned/real: AirTN strengthened systematic exchange of information for mutual learning between Member States and the identification of possible areas for co-operation. It also brought added value to the foundation of the European Research Area and the development of a European Research Policy, especially in relation to aeronautics and air transport. The main focus was put on Implementation of Joint Activities of the ERANET instrument and funding of transnational research.

The governing outcome of all AirTN activities is continuity in strengthening the European Research Area within the framework of the ACARE Strategic Research Agenda.

In particular, the following objectives were pursued in this project:

- Increase efficiency, synergy, and avoid duplication of research performed on European, national and regional level
- Increase complementary research activities within Europe
- Unlock untapped potential of skills and resources in Europe, especially in the new and smaller member states and regions
- Facilitate the development of a joint strategy for research infrastructures and facilities
- Identify successful approaches to ensure a skilled workforce

In line with the scope spelled out in the RTD Transport 2008 work programme (AAT-2008.7.10), the following targets were reached in this project:

- Implementation of joint activities between member states
- Implementation of joint activities of member states with Third countries
- Preparing the grounds for an ERA-Net PLUS
- Creating the basis for lasting co-operation, with a view to having further joint activities even after this project
- Dissemination of relevant results

Slovak Participant's Role in Project: UNIZA was a member of project management team and led Working Package dedicated to Foundations for Joint Activities.

UNIZA led the tasks related to Identification of topics suitable for joint activities and Education and the team contributed to the following tasks:

- Identification of topics brought forward from other European initiatives
- Identify topics relevant for countries with less developed aerospace landscape
- Implementation of joint activities in Member States

AIRTN-NEXTGEN

Project ID: 604952

Project Title: Air Transport Network – Next Generation

Project website: <http://www.cira.it/it>

Project Start Date: 2013-12-01

Project End Date: 2015-11-30

Project Total Cost: EUR 810 958.6

Project EC Financial Contribution: EUR 594 176.9

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GR AERO LTD - UNITED KINGDOM

OESTERREICHISCHE FORSCHUNGSFOERDERUNGSGESELLSCHAFT MBH – AUSTRIA

ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA- SLOVAKIA

Project Description: The project draws upon the network established under previous AirTN projects while enlarging it to create a platform of networking and communication between national organisations and governmental institutions supporting research and innovation in the EU member states and countries associated to the EU framework programme in the field of aviation (i.e. Aeronautics and Air Transport - AAT).

Win-win situations, barriers and solutions for improved trans-national cooperation in research, technological developments and innovation have been identified and specific actions have been performed.

Project Objectives: The successful activities started in previous AirTN are to be continued and improved - coordinated calls among MS, European transnational cooperation, research infrastructures needs and business models analysis, education and workforce mobility - including the development of studies in areas of common interest and organisation of dedicated workshops.

Benefits for members of the AirTN NextGen Network supporting the CSA: The reference network (hereafter AirTN NextGen Network) for this proposed CSA is composed of the 25 Member States and Associated Countries, and related Agencies/Ministries/Research Centres that are funding/managing research and innovation programmes/projects relevant to Aeronautics and Air Transport. Furthermore, the National ACARE mirror groups.

Profile of Slovak Participant/ -s: The University of Zilina (UNIZA), established in 1953 as a public university, provides education at all three levels of higher education in both full-time and part-time forms. With a history of more than half a century of dedication to mostly technology-oriented education and research, the University has taken a prominent place in the Slovak educational and research space not only due to the number of its students, the range of accredited study programmes, but also with its scientific and international activities based on cooperation with domestic and foreign companies and institutions. The main focus of the University's research, education and innovation is oriented towards transport, communications, electrical and mechanical engineering, civil engineering, safety and security, information and communication technologies, economics, and in recent years also towards the humanities and environmental issues. The staff of the University has been involved in more than 150 scientific and research projects financially supported through national and international grant schemes.

Recently the scientific teams of the University have been involved in twenty-three EU 7th Framework Programme projects. These teams closely cooperate with partners from various industrial branches in applied research through six Centres of Excellence, supported via the Operational Programme "Research and Development" in the framework of European Structural Funds. Furthermore, closer cooperation with the industries is entered into through four Centres of Competence and three Centres of applied research. Their achievements are presented mainly through publication activities, submitted patent applications, presentations at international scientific symposiums and conferences, but also at trade fairs and exhibitions.

SK Participant Project Cost: EUR 51 540

SK Participant EC Financial Contribution: EUR 47 256.5

Project Outcomes planned/real: AirTN NextGen actions, in line with the required effort in terms of coordination, draw upon the network established under the previous AirTN aiming to create a wider platform for networking and communication between national organisations and governmental institutions supporting research and innovation in the EU EU member states and countries associated to the EU Framework Programme in the field of Aviation (i.e. Aeronautics and Air Transport - AAT). The AirTN NexGen project already collected the support of some entities (e.g. research institutions, universities, ACARE MS representative etc.) from the following states: Poland, Belgium (Wallonia), Romania, Spain, and Croatia.

The successful activities started in previous AirTN (see previous section "background") will be continued and improved by means of:

- supporting and favouring coordinated calls among MSs, launching of European transnational cooperation projects, identifying research infrastructures needs (e.g. for virtual testing) and business models analysis, stimulating education and workforce mobility;
- performing studies on areas of common interest and the organisation of dedicated workshops. Win-win situations, barriers and solutions for improved trans-national cooperation in research, technological developments and innovation will be identified and specific actions performed.

Lessons learnt in the previous AirTN ERA-NET projects will be further taken into account during the AirTN NextGen implementation.

Slovak Participant's Role in Project: UNIZA is a member of the project management team. The team contributed to a successful completion of Education, Workforce & Research Infrastructure Work Package, education and workforce task and Networking and Dissemination work package. UNIZA will also organize INAIR 2014 and 2015 aviation conferences.

ASSET

Project ID: 211625

Project Title: ASSET – Aeronautic Study on Seamless Transport

Project website: <http://www.asset-project.eu/>

Project Start Date: 2008-01-06

Project End Date: 2011-11-30

Project Total Cost: EUR 3 640 096.8

Project EC Financial Contribution: EUR 2 291 255

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SLOVAK PARTICIPANT 2

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AIR FRANCE - FRANCE

ATHENS INTERNATIONAL AIRPORT - GREECE

ICTS – UNITED KINGDOM

ID-PARTNERS - FRANCE

ADP - FRANCE

SMITHS HEIMANN - GERMANY

SAGEM SÉCURITÉ S.A. - FRANCE

SIEMENS AG - SIEMENS IT SOLUTIONS & SERVICES - GERMANY

RWTH AACHEN UNIVERSITY - GERMANY

ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA - SLOVAKIA

LETISKO M. R. STEFANIKA – AIRPORT BRATISLAVA, A.S. (BTS) - SLOVAKIA

Project Description: ASSET aims at finding an integrated approach for improving the modules of the landside airport process chains in order to tackle the lack of punctuality and predictability since it has been shown that compared to the ACARE goal of 99% punctuality in European air transport within 15 minutes the average actual value in Europe is only around 82% (2009). Poor predictability within flight planning and a necessity for costly time buffers and/or the reservation of extra aircraft is therefore a major threat to reaching the goals envisaged.

ASSET analyses the infrastructure and processes and develops on these grounds optimised process alternatives which are tested and assessed against a newly-developed simulation background. Because of differences regarding the processes in the airport airside and landside, ASSET differentiates between medium-sized airports and hub airports.

Project Objectives: ASSET aims at an integrated approach for the improvement of the various steps in the related process chains: 1) Timeliness of passenger inbound and transfer flows at the airport including boarding and de-boarding of the aircraft; 2) Associated processes for baggage and freight handling at the aircraft and inside the terminal. Excluded from the analysis are processes within the baggage handling system and processes inside the cargo terminal; 3) Aircraft service processes at stand or gate (fuelling, cleaning, catering maintenance etc.); 4) The multiple control procedures such as check-in, security, customs and immigration, boarding etc., involving various stakeholders and constituting many bottlenecks.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: The Air Transport Department is an educational and research workplace of the University of Zilina aimed at air transport. The Department provides study programs in the field of Air Transport. Studies are provided in a three-tier course structure of university education in accredited branches of Bachelor, Engineer and PhD. programmes.

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- Extensive knowledge of airport operation and processes from both airport and other stakeholders' points of view.
- Extensive knowledge of airline business and operations.
- Extensive experience with fast-time simulations of airport landside operations as well as with modelling of passenger behaviour.
- Understanding of external links of airports to other transport modes, so as the relationships of interlinked airports' catchment areas
- In-depth knowledge about the development of the air transport market in Slovakia and in the Czech Republic but also other Central European countries.
- Wide experience in conducting consultations with stakeholders, various passenger surveys and operational data collection exercises.

SK Participant Project Cost: EUR 74 252

SK Participant EC Financial Contribution: EUR 55 689

Project Outcomes planned/real: The project developed and assessed solutions for airport process improvement in terms of time efficiency regarding both passenger transfer and aircraft turnaround in an integrated approach. Therefore, representatives of nearly all directly or indirectly involved stakeholders (airports, airlines, aircraft manufacturers, technological suppliers, security service providers etc.) gathered to work on this project. Elaboration of potential solutions includes a compilation of currently discussed solution approaches (e.g. CDM, Total Airport Management etc.) as well as development of new opportunities focusing on three main process chains:

- passenger processes
- baggage processes
- aircraft turnaround processes

Emphasis was placed on identifying every solution achieving the most promising target contribution instead of going into details of a certain approach. Each solution – at first particular and in a later phase integrated solution scenarios – deemed expedient was assessed by dint of simulating a characteristic traffic scenario into two generic airport reference models. These airport models were assigned to represent one hub airport (e.g. with a substantial part of connecting passengers) and one medium-sized airport (e.g. point-to-point and low-cost traffic), defined and generated in the context of this project. Such models are lacking so far and could actually be used for other projects and assessments. List of proposed solutions: Queue management, Hand luggage corridor, ID-card as boarding pass, Standard kiosk, Passenger and luggage stay together, Baggage pick-up, Award self-service, Fixed IATA hand luggage interpretation size, Security related ID-check, Frequent traveller procedures.



Slovak Participant's Role in Project: UNIZA led the task in which processes taking place at each point of activity, for passengers, luggage, and planes were analysed for two types of airport, hub as well as medium-sized airport. These processes were decomposed in various steps, with identification of the links between these steps. UNIZA also led the task in which basic scenarios for typical normal and busy days (based on the current situation) were established. For that purpose, global parameters were first defined, such as the number of flights, the number of passengers, and transit time for passengers between flights. UNIZA also contributed to the financial evaluation of improved airport infrastructures and their impact on various stakeholders. The team also supported the assessment of privacy constraints in implementation of advanced IT equipment (chip circuits, RFID, location-based services).

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 28 200

SK Participant EC Financial Contribution: EUR 14 100

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

B2B LOCO

Project ID: 234106

Project Title: BALTIC - TO - BALKAN NETWORK FOR LOGISTICS COMPETENCE

Project website: <http://www.b2bloco.eu/>

Project Start Date: 2009-09-01

Project End Date: 2011-08-31

Project Total Cost: EUR 939 294

Project EC Financial Contribution: EUR 849 576

Slovak participant Name: **VYSKUMNY USTAV DOPRAVNY, A. S.,
Transport Research Institute, JSC.**

Slovak participant address: Velký Diel 3323, 010 08 ŽILINA

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Partners of the Consortium:

INSTYTUT LOGISTYKI I MAGAZYNOWANIA - POLAND

VILNIAUS GEDIMINO TECHNIKOS UNIVERSITETAS - LITHUANIA

WYKSZA SZKOLA LOGISTYKI Z SIEDZIBA W POZNANIU - POLAND

TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY - ISRAEL

PROMETIS D.O.O. PROJEKTIRANJE I ISTRAJIVA KO-RAZVOJNI RAD U PODRU JU
PROMETA - CROATIA

S.T.A.R. SRL - STRATEGIES TOOLS ADVICES AND RESEARCH SRL - ITALY

CENTRUM DOPRAVNIHO VYZKUMU V.V.I. - CZECH REPUBLIC

TRANSPORT AND TELECOMMUNICATION INSTITUTE - LATVIA

SUPPLY CHAIN MANAGEMENT CENTER SRL - ROMANIA

AKDENIZ UNIVERSITY - TURKEY

ARISTOTELIO PANEPSTIMIO THESSALONIKIS - GREECE

UNIVERSITY OF ROUSSE ANGEL KUNCHEV - BULGARIA

UNIVERZA V MARIBORU - SLOVENIA

PANNON GAZDASAGI HALOZAT EGYESUELET - HUNGARY

VYSKUMNY USTAV DOPRAVNY, A. S., TRANSPORT RESEARCH INSTITUTE, JSC.-
SLOVAKIA

Project Description: Based on successful FP5 and FP6 experiences of the POLLOCO and the CENTRAL LOCO projects, the revised and expanded concept of the B2B LOCO project is that local market-oriented research units - collaborating in an international network aimed at experience exchange - can substantially increase the participation of small/medium sized enterprises (SME's) in the Framework Programme projects by demonstrating and actively promoting the best business practice-oriented results of past and current RTD projects among the enterprises.

Project Objectives: The objective was to build a Network of Logistics Competence and build a platform for exchange of knowledge, best practices, new technologies and solutions within logistics.

B2B LOCO was to create the way to substantially increase the participation of small and medium enterprises in the Framework Programme projects by demonstrating and actively promoting the best business practice-oriented results of past and current RTD projects.

Profile of Slovak Participant/ -s: In its 60-year history, Vyskumny ustav dopravy, a.s. (Transport Research Institute) (VUD) has dealt with important assignments of national significance with economic impact, resulting from major research projects in scope of creation and implementation of the national transport policy. Wide know-how integrates the activities of VUD into the scientific and research basis of the Slovak Republic, which is considered one of the most important priorities of the VUD's long-term strategy. Scientific, research and development activities of VUD cover all modes of transport, mainly in the field of engineering and technology, operation, infrastructure, economy, legislation, management and organisation, informatics and automation, environment, energy systems, transport safety and quality, transport services and tourism management, transport policy, certification and testing in the field of construction products, special products and interoperability.

SK Participant Project Cost: EUR 54 816

SK Participant EC Financial Contribution: EUR 49 040

Project Outcomes planned/real: Within the B2B LOCO project our consortium:

- created a permanent network of research and educational institutions in transport and logistics capable of building and maintaining links with SMEs in their area.
- identified innovative FP projects in the field of logistics and transport,
- presented best practice solutions resulting from FP projects in various fields of logistics and transport to SMEs,
- showed clear benefits of FP participation to SMEs in the under-privileged EU-states and in candidate countries,
- provided new exploitation opportunities for the future FP projects in terms of SMEs' involvement in demonstration and commercialization efforts,
- provided research institutions with a forum of knowledge/ experience exchange in dealing with SMEs,
- informed large numbers of companies about current work programmes and calls and offered advice on how to participate in Framework Programmes
- provided access to FP-related materials and European Transport Strategies,

Within the project duration SME community was given the opportunity to participate in two international conferences, two practical workshops and three brokerage events, in addition to permanent communication mechanisms (websites, newsletters).

Moreover, an Alumni Social Network was developed and 3 rounds of alumni meetings in universities of 9 partner countries were organized, attracting over 1 600 participants. Additionally, the project produced an Electronic Knowledge Brokerage System, a web-based tool for companies enabling publishing company profiles for partner search and presenting its offers and demands. An overall number of 259 companies registered in EKBS to present themselves for partner search.

To meet project objectives the analysis on the real benefits resulting from FP projects were carried out, producing a number of 67 research projects providing added value for SMEs. The details of these were published on the project website.

Slovak Participant's Role in Project: WP5 – Dissemination:

- Design and administration of the project website,
- Preparation of a regular project newsletter,
- Development and administration of an online brokerage tool,
- Preparation of interim and final reports.

BEMOSA

Project ID: 234049

Project Title: Behavioral Modeling for Security in Airports

Project website: <http://bemosa.technion.ac.il/>

Project Start Date: 2009-09-01

Project End Date: 2012-11-30

Project Total Cost: EUR 4 235 967.1

Project EC Financial Contribution: EUR 3 399 934

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, The University of Zilina

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Partners of the Consortium:

TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY. - ISRAEL

TECHNISCHE UNIVERSITEIT DELFT - NETHERLANDS

UNIVERSITA DEGLI STUDI DI MODENA E REGGIO EMILIA - ITALY

DEEP BLUE SRL - ITALY

USEZACES BV - NETHERLANDS

LETISTE BRNO A.S. - CZECH REPUBLIC

HELIOS TECHNOLOGY LTD - UNITED KINGDOM

FUNDACION CARTIF - SPAIN

AVITRONICS RESEARCH - GREECE

B&M INTERNETS, S.R.O. - CZECH REPUBLIC

ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA- SLOVAKIA

Project Description: Eliminating and mitigating threats to air traffic is one of the main objectives of the global air transport system. Ever since '9/11', huge investments have been made in order to increase airport security, by both the public and private sectors. These expenses put the profit margin of the airports under pressure and increased the cost of air traffic. The additional security measures have led to an increased time spent at checkpoints. This puts a strain on the overall efficiency.

The combined security and economic pressures make it imperative to leverage any investment in airport security as efficient as possible. BEMOSA will contribute significantly to this objective by focusing on the human factors involved in the security process.

Project Objectives: The aim is to improve security in airports. This is done by enhancing the capability of airport authority personnel to correctly detect potential security hazards, and to provide them with:

- Increased security;
- Reduced false alarms;
- Improved profitability.

The BEMOSA project improves the way in which airports learn from experience, revising and updating their safety and security skills and procedures. Its end-product will be a tailored training programme for airport staff, based upon a behaviour model, reflecting the complex reality in airports.

Profile of Slovak Participant/ -s:

The Air Transport Department is an educational and research workplace of the University of Zilina aimed at air transport. The Department provides study programs in the field of Air Transport. Studies are provided in a three-tier course structure of university education in accredited branches of Bachelor, Engineer and PhD. programmes.

Air Transport Department is also the base of the National Civil Aviation Security Training Centre of the Slovak Republic. The Centre runs basic aviation security courses in line with EU regulations for all categories of personnel in aviation.

Consultation and research activities of the Department are oriented to solving tasks related to airport design and operations, air transport security and safety, management of air traffic services, standardisation of airborne alert and warning systems. The Department of Air Transport is ACI recognized educational institution a member of the EASN (European Aeronautical Science Network). The Air Transport Department (ATD) has:



- Extensive knowledge of airport operation and processes from both airport and other stakeholders' points of view.
- Extensive knowledge of airline business and operations.
- Extensive experience with fast-time simulations of airport landside operations as well as with modelling of passenger behaviour.
- Understanding of external links of airports to other transport modes, so as the relationships of interlinked airports' catchment areas
- In-depth knowledge about the development of the air transport market in Slovakia and in the Czech Republic but also other Central European countries.
- Wide experience in conducting consultations with stakeholders, various passenger surveys and operational data collection exercises.

SK Participant Project Cost: EUR 80 400

SK Participant EC Financial Contribution: EUR 63 300

Project Outcomes planned/real: BEMOSA developed a dynamic and realistic model of social behaviour during security threats in airports. It also took into consideration the limits of human behaviour under stressful emergencies. The model provided a foundation for the development of innovative world-wide airport staff training programs that provide breakthrough advancements in real-world crisis handling and hazard reduction.

Providing fundamental human resource tools involved in crisis management that will form the basis for an integrated training program dealing with airport security requires gaining a more definitive understanding of the social dynamics involved in the decision-making process among all the airport stakeholders. This means being prepared beforehand, during and after an actual crisis. In order to lay the groundwork for such an endeavour means first and foremost to build up a portfolio of empirical evidence that is derived from actual behavioural patterns involved in decisions relating to airport security. This is not a trivial matter as it requires focusing on a number of groups of actors that are part of the airport organization including the passengers. It is clear that there is interdependence among all the actors in an airport organizational environment that encompasses those directly and indirectly involved. Decisions made by any one group will have repercussions and consequences for all.

Slovak Participant's Role in Project: UNIZA contributed to the tasks related to aviation security training overview and training needs and requirements, bearing in mind behavioural aspects of airport security. It also supported the design of BEMOSA pilot training and description of actions against unruly passengers.

BEWARE

Project ID: 605465

Project Title: Bridging East West for Aerospace REsearch

Project website: <http://beaware-aero.eu/>

Project Start Date: 2013-10-01

Project End Date: 2015-09-30

Project Total Cost: EUR 617 188.93

Project EC Financial Contribution: EUR 598 240

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, The University of Zilina

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Partners of the Consortium: INVENT BALTICS OU - ESTONIA

FUNDACION HELICE - SPAIN

STOWARZYSZENIE POLSKIEGO PRZEMYSŁU LOTNICZEGO - POLAND

FARNBOROUGH AEROSPACE CONSORTIUM LIMITED - UNITED KINGDOM

LUFTFAHRTCLUSTER METROPOLREGION HAMBURG EV - GERMANY

VILNIAUS GEDIMINO TECHNIKOS UNIVERSITETAS - LITHUANIA

MORAVSKY LETECKY KLASTR OS - CZECH REPUBLIC

AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA - ITALY

ASSOCIATION PEGASE - FRANCE

INSTITUTUL NATIONAL DE CERCETARI AEROSPATIALE ELIE CARAFOLI - I.N.C.A.S. SA - ROMANIA

AEROSPACE VALLEY – FRANCE

ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA- SLOVAKIA

Project Description: The BEWARE consortium connects leading aerospace clusters and support organisations in Western Europe (France, Germany, United Kingdom, Spain and Italy) with quickly evolving aerospace clusters and strongholds in Eastern Europe (Poland, Romania, Czech Republic, Slovakia and Baltic States). Thus, the BEWARE project creates the necessary conditions for utilizing the existing and emerging potential in the field of Aeronautics and Air Transport for a continuous and sustainable contribution in European aerospace programmes and projects.



To achieve maximum results and extend the duration of expected impacts, the BEWARE project strives towards an ideal state, where an evolution of new partnerships between aerospace actors from Eastern and Western European countries will not depend on additional EU financing as a main prerequisite to start their collaborative projects in the field of Aeronautics and Air Transport.

Project Objectives: The BEWARE project has set a mission to increase the participation of the aeronautical organisations in Framework Programme which are not yet involved at the level of the size of their respective aeronautics sector. The general objective of the BEWARE project is to support potential coordinators and potential partners in future R&D projects in the field of Aeronautics and Air Transport of Horizon 2020 in identifying innovation opportunities and building international teams and consortiums.

In order to achieve this objective and to create significant impact, the BEWARE project maps aeronautical competences in at least ten aerospace regions in Europe; organizes three workshops and three plant and factory tours to meet top-level contractors in European aerospace industry, creates an Aerospace Springboard in Eastern European countries; structures at least one innovation chains based on Key Enabling Technologies and identifies at least five potential project consortia in aeronautics through an extension of the European Aerospace Cluster Partnership.

Profile of Slovak Participant/ -s: The Air Transport Department is an educational and research workplace of the University of Zilina aimed at air transport. The Department provides study programs in the field of Air Transport. Studies are provided in a three-tier course structure of university education in accredited branches of Bachelor, Engineer and PhD. programmes.

Air Transport Department is also the base of the National Civil Aviation Security Training Centre of the Slovak Republic. The Centre runs basic aviation security courses in line with EU regulations for all categories of personnel in aviation.

Consultation and research activities of the Department are oriented to solving tasks related to airport design and operations, air transport security and safety, management of air traffic services, standardisation of airborne alert and warning systems. The Department of Air Transport is ACI recognized educational institution a member of the EASN (European Aeronautical Science Network). The Air Transport Department (ATD) has:

- Extensive knowledge of airport operation and processes from both airport and other stakeholders' points of view.
- Extensive knowledge of airline business and operations.
- Extensive experience with fast-time simulations of airport landside operations as well as with modelling of passenger behaviour.
- Understanding of external links of airports to other transport modes, so as the relationships of interlinked airports' catchment areas
- In-depth knowledge about the development of the air transport market in Slovakia and in the Czech Republic but also other Central European countries.
- Wide experience in conducting consultations with stakeholders, various passenger surveys and operational data collection exercises.

SK Participant Project Cost: EUR 49 198.26

SK Participant EC Financial Contribution: EUR 49 198.26

Project Outcomes planned/real: The general objective of the BEWARE project is to support potential coordinators and potential partners in future R&D projects in the field of Aeronautics and Air Transport of Horizon 2020 in identifying innovation opportunities and building international teams and consortia particularly around topics significant to European Research Area. In order to achieve this objective and in order to create significant impact, the BEWARE project partners have defined the following specific objectives:

- To map 300 organisations in at least ten aerospace regions in Europe with lower participation in Framework Programme Collaborative projects than their potential (WP1).
- To create direct links between research stakeholders from industry, academia and research centres through organisation of three workshops and Aerospace Springboard European countries (WP2).
- To organize three plant and factory tours to meet top-level contractors in European aerospace industry (WP3).
- To gather knowledge about the various aerospace regions, their competencies, capabilities, and actors and foster collaboration between Eastern and Western European aerospace actors (WP3).
- To structure at least one innovation chains based on Key Enabling Technologies (WP4).
- To identify at least five potential project consortia in aeronautics through an extension of the European Aerospace Cluster Partnership (EACP) network5 and missions (WP4).

Slovak Participant's Role in Project: UNIZA contributed to Thematic Mapping of Regional Capacities and Challenges in Aeronautics and also to the working package that is dedicated to creation of direct links between research stakeholders from industry, academia and research centres through organisation of four workshops and Aerospace Springboard in Eastern European countries. UNIZA will also contribute to the organisation of a workshop on H2020 opportunities in Aeronautics & Air transport.

CEARES

Project ID: 213280

Project Title: Central European Aeronautical REsearch initiative

Project website: <http://www.ceares.eu>

Project Start Date: 2008-04-01

Project End Date: 2010-03-31

Project Total Cost: EUR 128 458

Project EC Financial Contribution: EUR 128 458

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, The University of Zilina

Slovak participant address: UNIVERZITNÁ 8215/1, 010 26 ŽILINA

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Partners of the Consortium:

Slot Consulting LTD. - HUNGARY

INSTITUTUL NATIONAL DE CERCETARI AEROSPATIALE ELIE CARAFOLI - I.N.C.A.S. SA - ROMANIA

EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION - BELGIUM

ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA- SLOVAKIA

Project Description: The concept of the CEARES proposal is to establish a well-coordinated network among the research organisations of the Central European states for sharing know-how and latest research results and to facilitate contact with European aeronautics industry. This proposal intends to establish a Central European Research Initiative to foster regional cooperation.

Project Objectives: The objective is to bring together research centres and universities from the region and give them the possibility to work together. The main tool will be the establishment of a regional network, into which key aeronautical research centres and relevant university departments will be invited. CEARES members will be informed about the capabilities, research activities and research needs of other members through workshops and a dedicated website with an internal, intranet-type forum.

Profile of Slovak Participant/ -s: The Air Transport Department is an educational and research workplace of the University of Zilina aimed at air transport. The Department provides study programs in the field of Air Transport. Studies are provided in a three-tier course structure of university education in accredited branches of Bachelor, Engineer and PhD. programmes.

Air Transport Department is also the base of the National Civil Aviation Security Training Centre of the Slovak Republic. The Centre runs basic aviation security courses in line with EU regulations for all categories of personnel in aviation.

Consultation and research activities of the Department are oriented to solving tasks related to airport design and operations, air transport security and safety, management of air traffic services, standardisation of airborne alert and warning systems. The Department of Air Transport is ACI recognized educational institution a member of the EASN

(European Aeronautical Science Network). The Air Transport Department (ATD) has:

- Extensive knowledge of airport operation and processes from both airport and other stakeholders' points of view.

- Extensive knowledge of airline business and operations.

- Extensive experience with fast-time simulations of airport landside operations as well as with modelling of passenger behaviour.

- Understanding of external links of airports to other transport modes, so as the relationships of interlinked airports' catchment areas

- In-depth knowledge about the development of the air transport market in Slovakia and in the Czech Republic but also other Central European countries.

- Wide experience in conducting consultations with stakeholders, various passenger surveys and operational data collection exercises.



SK Participant Project Cost: EUR 25 733.5

SK Participant EC Financial Contribution: EUR 25 733.5

Project Outcomes planned/real: The CEARES project established a well-coordinated network among the research organisations of the Central European states for sharing know-how and latest research results. It also facilitated contact with the European aeronautical industry. The project also brought together research centres and universities from the region and gave them the possibility to work together. The main tool was building a regional network, into which key aeronautical research centres and relevant university departments were invited. CEARES network members were informed about the capabilities, research activities and research needs of other members through workshops and through the website.

Slovak Participant's Role in Project: UNIZA supported all the networking activities within the framework of the CEARES project, organised CEARES networking workshop in Zilina and contributed to a successful completion of dissemination activities.

COSUDEC

Project ID: 247998

Project Title: Coastal Surveying of Depths with EGNOS to Enhance Charts

Project website: <http://www.gsa.europa.eu/coastal-surveying-depths-egnos-enhance-charts>

Project Start Date: 2009-12-14

Project End Date: 2011-12-13

Project Total Cost: EUR 456 011.27

Project EC Financial Contribution: EUR 356 496

Slovak participant Name: Monika Gotsova

Slovak participant address: Obrancov mieru 4684/, 080 01 PREŠOV

Contact person email/ phone: Monika Gotsova, mondan@centrum.sk, +421 907 616 006

Partners of the Consortium:

SMARTCOM SOFTWARE LTD. – UNITED KINGDOM

ZAZUNI LTD. - UNITED KINGDOM

AMBER ROUTE UAB – LITHUANIA

MONIKA GOTSOVA- SLOVAKIA

Project Description: The accuracy of nautical charts is highly dependent upon accurate surveys being carried out, and as the sea bed is often soft sand or mud that moves with time, these need to be repeated periodically. Unfortunately hydrographic offices are generally tasked to concentrate on the main routes for large commercial shipping, and have limited budgets, which means that many coastal areas that are frequented by leisure and small commercial craft are inadequately surveyed. This results in a greater likelihood of damage to vessels, injuries and pollution due to vessels going aground. The lack of up-to-date survey data also impacts other areas, such as the monitoring of silting or movements of the sea bed and the availability of data for engineering projects, such as outfalls or offshore tidal or wind energy schemes. Although surveys can be specially commissioned for engineering activities such as these, this is a very expensive process, and the costs are often hard to justify, especially early on in the project when multiple possible sites may be being examined.

Project Objectives: CoSuDEC brings together a number of developments to overcome the paucity of data and the high costs of commissioning custom surveys. First, with the enhancements to GPS accuracy, especially when augmented with the use of EGNOS, positional accuracy of a general navigation GPS is adequate for IHO (International Hydrographic Organisation) Level 1 surveys for harbours and coastal areas. Secondly, crowd sourcing can be used by asking the many leisure and workboats in an area to log data that can then be collated and processed. By combining data from a large number of vessels, it can be treated statistically to remove any rogue readings, and generally to enhance the accuracy of the depth readings, so again Level 1 standards can be achieved. This will allow cost-effective gathering of data that can then be processed to provide input to downstream users such as chart publishers or GIS users, as well as being made available to the data loggers themselves to recompense them for their efforts.

Profile of Slovak Participant/ -s: Monika Gotsova joined FP7 while self-employed in her company MPG software, within a consortium of partners from the UK, France and Lithuania. MPG Software is a software development and consultancy business based in Prešov, Slovakia. Our areas of expertise include software development, database design and management, and interfacing for instrumentation systems for data logging.

SK Participant Project Cost: EUR 92 906.26

SK Participant EC Financial Contribution: EUR 70 283

Project Outcomes planned/real: We had already been planning a similar research with our consortium partners, and since we already had the idea and market research that spoke in favour of our solution, it was an amazing opportunity to be supported by the EU and being able to go from an idea to a successful implementation and commercial use. An added bonus was the opportunity to learn more about other EU countries and make contacts in them. In my personal career, it was a chance which may not be repeated, and would have been a great pity not to use it.

Slovak Participant's Role in Project: In the TeamSurv project (working title CoSuDec), ships help create better and more precise maps of coastal waters by measuring the depth of water and their position while at sea. Then they send these data over the web to be processed and displayed. The idea arose from the observation that the depth of coastal waters in many countries is monitored only partially or inadequately for the needs of large ship-operating companies. The reason is the high cost of such measurements. Another aim of the project was to determine whether the current GPS devices using EGNOS can provide sufficient accuracy, which is the key for data processing. The results have confirmed that the European satellite navigation system does provide such accuracy. TeamSurv is an economically better way of collecting data by a large amount of ships, allowing it to cover areas that are not financially possible to cover by traditional methods. The role of MPG software in the project was the creation of a technical 'background', including application development, database and server management and maintenance. The project lasted almost two years, it has been evaluated as successful and it resulted in the creation of a fully functional environment for data collection, processing, and the subsequent creation of maps. See our web page for more details: www.teamsurv.eu.



ESPOSA

Project ID: 284859
 Project Title: Efficient Systems and Propulsion for Small Aircraft
 Project website: <http://www.esposa-project.eu>
 Project Start Date: 2011-10-01
 Project End Date: 2015-09-30
 Project Total Cost: EUR 37 685 112.2
 Project EC Financial Contribution: EUR 24 999 800

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE
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Partners of the Consortium:
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 FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY
 BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM - HUNGARY
 UNIVERSITE LIBRE DE BRUXELLES - BELGIUM
 TECHNISCHE UNIVERSITEIT DELFT - NETHERLANDS
 TECHNISCHE UNIVERSITAET MUENCHEN - GERMANY
 ZAKLADY LOTNICZE MARGANSKI & MYSLOWSKI SP ZOO - POLAND
 POLITECHNIKA RZESZOWSKA IM IGNACEGO LUKASIEWICZA PRZ - POLAND
 INSTYTUT LOTNICTWA - POLAND
 ZAKLADY LOTNICZE MARGANSKI & MYSLOWSKI SA - POLAND
 FUNDACION TECNALIA RESEARCH & INNOVATION - SPAIN
 TOBB EKONOMI VE TEKNOLOJI UNIVERSITESI - TURKEY
 ATARD SAVUNMA VE HAVACILIK SANAYI ILERI TEKNOLOJI UYGULAMALARI ARASTIRMA VE GELISTIRME A.S. - TURKEY
 GROB AIRCRAFT AG - GERMANY
 PIAGGIO AERO INDUSTRIES SPA - ITALY
 ZAPOROZHYE MACHINE-BUILDING DESIGN BUREAU PROGRESS STATE ENTERPRISE NAMED AFTER ACADEMICIAN A.G. IVCHENKO - UKRAINE
 WINNER SCS - BELGIUM
 POLITECHNIKA WARSZAWSKA - POLAND
 MATERIALS ENGINEERING RESEARCH LABORATORY LIMITED - UNITED KINGDOM
 UNIS AS - CZECH REPUBLIC
 WYTWORNI SPRZETU KOMUNIKACYJNEGO PZL - RZESZOW SA - POLAND
 TUSAS MOTOR SANAYI AS - TURKEY
 SYSGO AG - GERMANY
 AVIO S.P.A - ITALY
 HONEYWELL INTERNATIONAL SRO - CZECH REPUBLIC
 CENTRE DE RECHERCHE EN AERONAUTIQUE ASBL – CENAERO - BELGIUM
 VYZKUMNY A ZKUSEBNI LETECKY USTAV A.S. - CZECH REPUBLIC

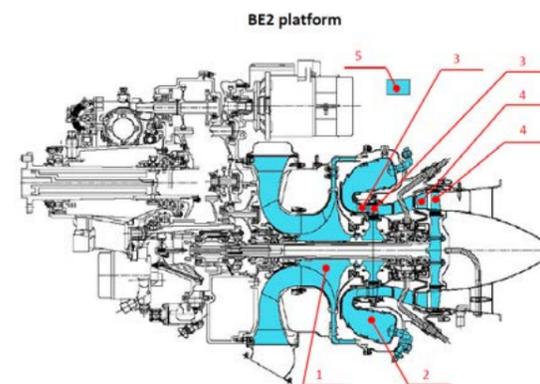
INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE TURBOMOTOARE – COMOTI - ROMANIA
 VYSOKE UCENI TECHNICKE V BRNE - CZECH REPUBLIC
 MOTOR SICH JSC - UKRAINE
 UNIVERSITA DEGLI STUDI DI PADOVA - ITALY
 JIHOSTROJ AS - CZECH REPUBLIC
 CENTRAL INSTITUTE OF AVIATION MOTORS - RUSSIA
 ZOLLERN GMBH & CO KG - GERMANY
 TEKNOLOGIAN TUTKIMUSKESKUS VTT - SUOMI/FINLAND
 STICHTING NATIONAAL LUCHT- EN RUIMTEVAARTLABORATORIUM - NETHERLANDS
 CENTRO ITALIANO RICERCHE AEROSPAZIALI SCPA - ITALY
 EVEKTOR, SPOL. S.R.O. - CZECH REPUBLIC
 INSTITUTUL NATIONAL DE CERCETARI AEROSPATIALE ELIE CARAFOLI - I.N.C.A.S. - ROMANIA
 TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE- SLOVAKIA

Project Description: Further development in general aviation (GA) and any forthcoming steps in this area are substantially limited by availability of modern certified propulsion units and reliable aircraft systems. Any kind of aircraft/rotorcraft configuration for future air taxi or regional transport will desire efficient and environmentally acceptable propulsion unit. The ESPOSA project plans to deliver better GTE engine affordability and a 10-14 % reduction of direct operating costs through the development of advanced concepts for key engine components, development of lean manufacture technologies and modern engine systems improving engine overall efficiency and maintainability.

Project Objectives: The goal of the ESPOSA project is to develop new key components for small gas turbine engines of up to 1000 kW and to develop new lean manufacture technologies. The project will also deal with engine-related systems that will contribute to the overall propulsion unit efficiency, safety and pilot workload reduction.

The ESPOSA project plans to deliver better GTE engine affordability and 10-14% reduction of direct operating costs through the development of advanced concepts for key engine components, development of lean manufacture technologies and modern engine systems improving engine overall efficiency and maintainability. The project will also deliver new or adjusted simulation and design tools and methodologies for engine integration into aircraft. The enhanced simulation capability straightens the aircraft design and saves developmental costs. ESPOSA also pioneers the smallest power range category for the turbine technology. All these can help small airplanes and helicopters to better establish themselves as a part of air transport system including also aero-taxi operation.

The ESPOSA project will provide better affordability of small gas turbine engines for smaller aircraft manufacturers and last but not least contribute to better protection of the environment by reducing CO2/NOx emissions and to efficient use of fossil fuels



Profile of Slovak Participant/ -s: The Faculty of Aeronautics of the Technical University in Kosice was established on 1 February 2005. Despite the short period of its existence it has a long experience in training pilots and aviation experts. The Faculty of Aeronautics is a successor of the Air Force Academy of Gen. Milan Rastislav Štefánik in Košice, which was a prestigious educational institution in Europe and worldwide, providing university education for pilots and air-operating personnel since 1973. The main mission of the Faculty of Aeronautics is to perform tasks of the Technical University, especially in the area of air technologies, aeronautics and astronautics – to provide and organize higher level education, life-time education as well as facilitate creative academic research in the fields of aeronautics, aviation equipment, aerospace and related issues. The Faculty of Aeronautics holds the Slovak Republic Civil Aviation Authority certificate of specialised competence to provide theoretical preparation in the training of pilots and the certificate for Maintenance Training Organization Approval under PART 147, which authorises the faculty to train air technical personnel as required by aviation legislation of the European Union, thus considerably expanding the possibilities of applying its graduates to work abroad. The Faculty of Aeronautics provides university-level education in all three stages of accredited study programs - in the Bachelor's stage, in the Master's stage and in the doctoral stage, in both full-time and external forms of studies.

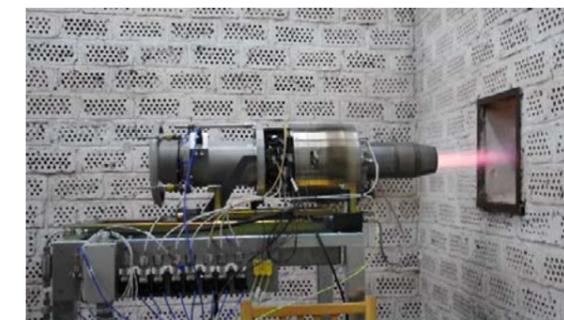
SK Participant Project Cost: EUR 440 905.6

SK Participant EC Financial Contribution: EUR 332 679.2

Project Outcomes planned/real: ESPOSA project was designed in accordance with the management and development plan as outlined in work package WP4.1. Faculty of Aeronautics researchers involved in the project ESPOSA developed adaptive control systems for small aviation turbo jet engines using artificial intelligence methods. The work on the project ESPOSA has been continuously disseminated by means of international conferences:

- IEEE International Symposium on Applied Machine Intelligence and Informatics;
- IEEE International Symposium on Computational Intelligence and Informatics;
- IEEE International Conference on Intelligent Engineering Systems;
- IEEE International Conference on Informatics in Control, Automation and Robotics.

Slovak Participant's Role in Project: The main task of the Faculty of Aeronautics of the Technical University in Kosice is to develop a mathematical model for both proposed engines for specific purposes of control design. Its further role lies in the design of and simulation of FADEC control system utilizing the model. The model of the control systems for both engines will be thoroughly tested in virtual environment and then put to realization. The control system design takes into account the use of modern progressive control algorithms.



ETISPLUS

Project ID: 233596

Project Title: European Transport policy Information System Development and implementation of data collection methodology for EU transport modelling

Project website: <http://www.etisplus.eu/default.aspx>

Project Start Date: 2009-09-01

Project End Date: 2012-12-31

Project Total Cost: EUR 4 338 202

Project EC Financial Contribution: EUR 2 852 252

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, University of Zilina

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TRT TRASPORTI E TERRITORIO SRL - ITALY

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TETRAPLAN AS - DENMARK

INSTITUTE OF TRANSPORT AND COMMUNICATIONS - BULGARIA

DEMIS BV - NETHERLANDS

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MKMETRIC GESELLSCHAFT FÜR SYSTEMPLANUNG MBH - GERMANY

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STRATEC SA - BELGIUM

NTU INTERNATIONAL APS - DENMARK

TIS PT, CONSULTORES EM TRANSPORTES, INOVACAO E SISTEMAS, SA - PORTUGAL

TRANSPORT & MOBILITY LEUVEN NV - BELGIUM

NESTEAR - NOUVEAUX ESPACES DE TRANSPORT EN EUROPE SARL - FRANCE

OZRODEK BADAWCZY EKONOMIKI TRANSPORTU - POLAND

Project Description: ETISplus sets out to build upon the strengths of the ETIS project (2005) and to address the lessons learnt. In principle, the Commissions objectives have not changed, but greater emphasis is required upon the frameworks.

Project Objectives: In ETISplus several innovations and extensions are proposed: the use of intelligent transport systems to provide data feeds the development of a business model, by which the system can be self-supporting the widening of the geographical scope the institutional organisation of data collecting will be assessed and based on a benchmark improvements will be proposed and tested. The inclusion of more data on logistics, on variables that influence transport and on data on effects (consequences) of transport. The existing and new data will be laid down in a data framework information architecture model: the base year of the present ETIS database is 2000; it is proposed to add 2005 and 2008 as new reference years. The data on transport are not restricted to interregional transport. ETISplus will also address data on intraregional transport. ETISplus will further revive the idea of a server-based system, of the introduction of a specific data validation procedure, and of a strong focus on stakeholder participation and commitment.

Profile of Slovak Participant/ -s: The University of Žilina is the only university located in the northwest region of the Slovak Republic. In terms of professional profile, the University is unique in Slovakia as it has a long tradition of providing education in the fields of transport and communications. Furthermore, during the last period of its development, the University became an educational institution with a broad profile in many areas of science, technology, economics, management, and recently, educational and natural sciences. The University enjoys a very close co-operation with transport, telecommunication and industrial companies as well as public and private institutions across the region and country. Further, the University contributes to the technological and operational development of transport and telecommunication systems, networks and services as the main conditions for the future economic and social development of the Slovak Republic.

SK Participant Project Cost: EUR 68 302.8

SK Participant EC Financial Contribution: EUR 60 903

Project Outcomes planned/real: ETIS-PLUS had the following main objectives:

- To develop a framework for the collection and dissemination of data and network information related to transport including:
 - the use of new data collection methods,
 - the use of efficient, cost-effective methods in cases where gaps in data collection currently exist,
 - the use of a dedicated IPR free dissemination and retrieval tool.
- To provide a central repository to be used by transport support policy tools at EU level.
- To implement and validate a database, updating and extending the ETIS database both geographically and by adding additional variables, adding new reference years 2005 and 2008 and including the newest member states and neighbouring countries in more detail.
- To establish communication among all stakeholders.
- To prepare guidelines and structures for future updates and management.

Slovak Participant's Role in Project: The main tasks for UNIZA were as follows:

- To carry out tests for feasible solutions to use new data collection methods and to go into more detail on the feasibility of applications based on ITS concepts, especially in freight transport.
- To provide support for selected Member States and decision-makers to discuss and provide input to the developers of ETISplus.
- To promote ETISplus to the potential users of the system and to stimulate the interest of potential users.
- To collect the socio-economic data set for selected Member States.
- To provide data for dataset relating to the movement of goods within Europe for selected Member States.
- To provide data for dataset dedicated to the passenger demand data for selected Member States.

ETNA PLUS

Project ID: 314201

Project Title: European Transport Network Alliance

Project website: <http://www.transport-ncps.net/>

Project Start Date: 2013-01-01

Project End Date: 2015-06-30

Project Total Cost: EUR 1 888 750.60

Project EC Financial Contribution: EUR 1 579 537

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, The University of Zilina

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UNIVERSITY OF NEWCASTLE UPON TYNE - UNITED KINGDOM

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SIHTASUTUS EESTI TEADUSAGENTUUR - ESTONIA

EUROPE RECHERCHE TRANSPORT - FRANCE

POSLOVNO-INOVACIJSKA AGNCIJA REPUBLIKE HRVATSKE - CROATIA

AUTORITATEA NATIONALA PENTRU CERCETARE STIINTIFICA - ROMANIA

FUNDAOAO PARA A CIENCIA E A TECNOLOGIA - PORTUGAL

CENTRO PARA EL DESARROLLO TECNOLOGICO INDUSTRIAL. - SPAIN

TUEV RHEINLAND CONSULTING GMBH - GERMANY

CLIFF FUNNELL ASSOCIATES - UNITED KINGDOM

FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE

MINISTERUL EDUCATIEI NATIONALE - ROMANIA

APPLIED RESEARCH AND COMMUNICATIONS FUND - BULGARIA

MINISTERIE VAN ECONOMISCHE ZAKEN - NETHERLANDS

PANTEIA BV - NETHERLANDS

HRVATSKI INSTITUT ZA TEHNOLOGIJU – CROATIA

ZILINSKA UNIVERZITA V ZILINE, The University of Zilina- SLOVAKIA

Project Description: The European Transport Network Alliance-ETNA Plus-is a 3 year coordination action that will build upon the activities and knowledge acquired in the ongoing project European Transport NCP Alliance (ETNA) with a new and wider approach reflecting the new political context and the priority given to Europe 2020 and to the Horizon 2020 objectives. It will also take advantage of the positive results of TransNEW and MARKET-UP FP7 projects and, to avoid duplication of efforts, will make use of existing data and information, collaborating with the TRKC (Transport Knowledge Research Centre) and CORDIS PS.

Project Objectives: The overall objective of ETNA Plus is to foster innovation in trans-national cooperation in Transport with a focus on promoting the active participation of new actors and regions in EU research calls and projects. Transport NCPs will be key players in this mechanism, but their role will be complemented and enhanced thanks to the contribution of other relevant stakeholders, which will bring to the project a real added value both in terms of knowledge and expertise.

ETNA Plus will also seek the active involvement of 56 Associated Partners (APs) nominated officially as Transport NCPs.

ETNA Plus will target transnational cooperation through different activities, following a two-fold approach; on one side, specific initiatives to raise awareness on the EU transport R&I landscape will be carried out, on the other side, efforts to improve the level of expertise on EU funding (e.g. Horizon 2020) will be undertaken both at NCP and researcher level.

Profile of Slovak Participant/ -s: The University of Zilina (UNIZA), established in 1953 as a public university, provides education at all three levels of higher education in both full-time and part-time forms. With a history of more than half a century of dedication to mostly technology-oriented education and research, the University has taken a prominent place in the Slovak educational and research space not only due to the number of its students, the range of accredited study programmes, but also with its scientific and international activities based on cooperation with domestic and foreign companies and institutions. The main focus of the University's research, education and innovation is oriented towards transport, communications, electrical and mechanical engineering, civil engineering, safety and security, information and communication technologies, economics, and in recent years also towards the humanities and environmental issues. The staff of the University has been involved in more than 150 scientific and research projects financially supported through national and international grant schemes.

Recently the scientific teams of the University have been involved in twenty-three EU 7th Framework Programme projects. These teams closely cooperate with partners from various industrial branches in applied research through six Centres of Excellence, supported via the Operational Programme "Research and Development" in the framework of European Structural Funds. Furthermore, closer cooperation with the industries is entered into through four Centres of Competence and three Centres of applied research. Their achievements are presented mainly through publication activities, submitted patent applications, presentations at international scientific symposiums and conferences, but also at trade fairs and exhibitions.

SK Participant Project Cost: EUR 52 200

SK Participant EC Financial Contribution: EUR 46 544

Project Outcomes planned/real: Means for improved partner search, cooperation and improvement of the NCP services in European framework programme.

Slovak Participant's Role in Project: UNIZA is responsible for mapping sources of available public sector funding that can be utilized to support transnational cooperation in transport research and innovation. Its staff was responsible for identification of transport innovation strategies in all transport modes, including research as well as policies, in the Netherlands and South Korea. The barriers hindering trans-national cooperation have been also identified and a set of recommendations was developed for innovative approaches and for tools to remove barriers. Other tasks include the participation in organization of brokerage events, dissemination of information, organization of ETNA+ Forum and Academy, and participation in Webinars.

FASTINCHARGE

Project ID: 314284

Project Title: Innovative fast inductive charging solution for electric vehicles

Project website: <http://www.fastincharge.eu/>

Project Start Date: 2012-10-01

Project End Date: 2015-09-30

Project Total Cost: EUR 2 397 043

Project EC Financial Contribution: EUR 1 654 085

Slovak participant Name: Automobilovy klaster – zapadne Slovensko zdruzenie

Slovak participant address: HLAVNA 5, 917 01 TRNAVA

Contact person email/ phone: Mrs. Martina Homolova, homolova@autoklaster.sk, +42 1 91177887

Partners of the Consortium:

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INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS - GREECE

CENTRO RICERCA FIAT SCPA - ITALY

FUNDACION TECNALIA RESEARCH & INNOVATION - SPAIN

TECHNICAL UNIVERSITY - GABROVO - BULGARIA

COMMUNE DE DOUAI - FRANCE

BATZ SOCIEDAD COOPERATIVA - SPAIN

EUROQUALITY SARL - FRANCE

Automobilovy klaster – zapadne Slovensko zdruzenie- SLOVAKIA

Project Description: The overall objective of FastInCharge is to foster the democratisation of electric vehicles in the urban environment by developing an easier and more comfortable charging solution which will enable to ease the EV use by the large public and facilitate their implementation in the urban grid. FastInCharges intention is to develop a cost-effective modular infrastructure offering a global solution for EV charging. Its success will boost research in the direction of dynamic charging solutions.

The concept of FastInCharge is to create a highly performing inductive solution which will enable a 40 kW power transfer to the vehicles in two charging operational situations: one stationary and one on-route. The inductive technology developed will be integrated into: three different electric cars of different types (secondary charging block) and four charging stations, one stationary and three on-route (primary charging block). The full functional chain will be carefully scrutinised in order to ensure an optimal, safe and sustainable solution: battery charging, EV performance and safety, EV range, communication EV/Station, connection station to the grid, grid management and energy supply, intelligent coordinated systems.

Project Objectives: With the advent of new electrified vehicles (EV) for application in the urban environment, a significant need exists to drastically improve the convenience and sustainability of car-based mobility. In particular, research should focus on the development of smart infrastructures, and innovative solutions which will permit full EV integration in the urban road systems while facilitating evolution in customer acceptance.

Within this context, activities will focus on:

- Investigation into alternative, innovative solutions for recharging stationary EV minimising risks deriving from vandalism (e.g. inductive charging).
- Study of on-route charging technologies which would increase the vehicle range while reducing the size of on-board energy storage systems.
- Development of innovative location based Demand Management systems by means of intelligent systems integrated in both EV and charging stations that can communicate and manage adaptively the charging process autonomously, if necessary, or taking into account the priorities of the user-grid.
- Development of data security standards and crypto measures to ensure privacy protection.
- Intelligent coordinated systems (micro-grids) that balance the simultaneous demand of a given geographically location (multiple, slow and fast charging EV combined with other electric consumers) with policies that prioritise emergencies, security of the net, minimal autonomy for all the elements, etc., and that can also coordinate with neighbouring microgrids and upper level electric grid control.

Projects may address these issues by technology development and demonstration from a technological perspective while focusing on business case analyses and impact studies demonstrating the feasibility and viability of the proposed solutions across a wide-range of operational situations.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 28 350

SK Participant EC Financial Contribution: EUR 19 950

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

FURBOT

Project ID: 285055

Project Title: Freight Urban RoBOTic vehicle

Project website: <http://www.furbot.eu/>

Project Start Date: 2011-11-01

Project End Date: 2014-10-31

Project Total Cost: EUR 3 266 473

Project EC Financial Contribution: EUR 2 269 961

Slovak participant Name: ZTS VYSKUMNO-VYVOJOVY USTAV KOSICE AS, ZTS VVU KOSICE a.s.

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Contact person email/ phone: Mr. Ladislav Vargovcik, vargovcik@ztsvvu.eu, +421 55 6834210

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UNIVERSITA DI PISA - ITALY

BREMACH INDUSTRIE SRL - ITALY

MAZEL INGENIEROS, SOCIEDAD ANONIMA - SPAIN

PERSICO SPA - ITALY

TRANSPORTES COLECTIVOS DO BARREIRO - PORTUGAL

ZTS VYSKUMNO-VYVOJOVY USTAV KOSICE AS, ZTS VVU KOSICE A.S. - SLOVAKIA

Project Description: The project proposes novel concept architectures of light-duty, full-electrical vehicles for efficient sustainable urban freight transport and will develop FURBOT, a vehicle prototype, to factually demonstrate the performances expected. The main paradigms of the new vehicle design are: energy efficiency, sustainability, mobility dexterity, modularity, intelligent automated driving and freight handling robotization. The design approach is oriented to harmonically integrate the new features into the vehicle architectures, based on the knowledge of advanced technologies in the field of the electric power supply and drive trains, in wheel motors, lightweight high strength materials, perceptual systems and intelligent controls. FURBOT will present new frame-platform structure, new efficient power supply and drive train layout including X-by wire transmission, new robotic tools for freights manipulation, new internal state sensorial/ monitoring system and new perceptual/automated control functions. The vehicle architecture is conceived modularly. The payload is considered packaged in freights boxes or ISO pallets. Attention will be paid to the modularity and standardization of components as well as to safety issues about crashworthiness and EMI/EMC, radiation health impact issues. A great effort will be devoted to improve the energy efficiency of the system by exploiting different aspects: a new power train layout integrated in the chassis; new battery and energy management system; last generation lightweight, direct drive electric motors; regenerative braking on the four driving wheels; reduced mass; attentive use of power addressed by the driver assistant or operating within the automated driving module.

The FURBOT represents a transport agent that can be used by alone but that better exploits its power if used in a fleet offering a new sustainable and very adaptable (evolvable) urban freight transport system. The system will be modeled and a simulator developed.

Project Objectives:

- Full electrical vehicle prototype
- Energy efficient
- Dexterous mobility
- Equipped with robotic load/unload device
- Light weight high strength material
- Endowed with perceptual system and intelligent control
- Standardized freight units

A discrete time simulator for FURBOT fleet networking analysis and management

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 296 579.2

SK Participant EC Financial Contribution: EUR 214 629

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MARKET-UP

Project ID: 265841

Project Title: Transport Research Market Uptake (Market-up)

Project website: <http://www.market-up.org>

Project Start Date: 2010-10-01

Project End Date: 2012-09-30

Project Total Cost: EUR 891 118

Project EC Financial Contribution: EUR 762 630

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, The University of Zilina

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BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM - HUNGARY

INOVAMIS - SERVICOS DE CONSULTADORIA EM INOVACAO TECNOLOGICA S.A. - PORTUGAL

COMITE DE LIAISON DE LA CONSTRUCTION D'EQUIPEMENTS ET DE PIECES D'AUTOMOBILES CLEPA AISBL* - BELGIUM

EUROPEAN MARINE EQUIPMENT COUNCIL/CONSEIL EUROPEEN DE L'EQUIPMENT NAVAL - BELGIUM

UNIVERSITEIT ANTWERPEN - BELGIUM

ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA- SLOVAKIA

Project Description: The concept behind this project becomes clearer when one understands the needs of a good market uptake of a research result. The purpose of a market uptake is to make research generated and scientific and technological developments accessible to private organisations. These stakeholders are then encouraged to develop the technology further into new products, processes, materials, or services that will enhance industrial competitiveness.

The objectives of the Market-up project are fourfold:

1. To get a better understanding of the context in which research funding for transport takes place in Europe and for the different transport modes, including concentration pattern in terms of actors (role and weight of large companies vs. SMEs).
2. To derive conclusions as to what drives or hampers the development and uptake of transport technologies.
3. To develop insights into which policy instruments could be usefully applied to respond to the drivers and address the barriers such that faster progress can be achieved with the introduction and uptake of transport technologies.
4. To identify and define the roles of the actors and regions involved in these actions.

The above-mentioned objectives will be achieved through the implementation of the following activities:

- Analysing barriers and drivers (social, economic and technical) for the market uptake of transport research results in Europe.
- Monitoring and assessing progress of industrial research in the transport sector through a mapping of existing competencies in the EU-27, particularly highlighting the role of SMEs in order to integrate their innovation potential,
- Assessing available research-funding instruments,
- Analysing barriers and weak players in the field of RTD as applied to SMEs in the transport sectors,
- Encouraging SMEs and RTD smaller actors to get involved in RTD programmes by training and educating them,

Project Objectives: Market-Up aims to identify barriers (both social and technical) and drivers for the market uptake of transport research results along Aeronautics, Air, Road, Rail and Waterborne transport. Via this identification process, a contribution will be made to the increased role of the transport sector in delivering a low carbon economy. Market-Up will also create the necessary tools to enable the achievement of two main goals:

- that research results are utilised by the market and
- that European research support covers all actors, including the weakest ones.

Profile of Slovak Participant/ -s: The University of Zilina (UNIZA), established in 1953 as a public university, provides education at all three levels of higher education in both full-time and part-time forms. With a history of more than half a century of dedication to mostly technology-oriented education and research, the University has taken a prominent place in the Slovak educational and research space not only due to the number of its students, the range of accredited study programmes, but also with its scientific and international activities based on cooperation with domestic and foreign companies and institutions. The main focus of the University's research, education and innovation is oriented towards transport, communications, electrical and mechanical engineering, civil engineering, safety and security, information and communication technologies, economics, and in recent years also towards the humanities and environmental issues. The staff of the University has been involved in more than 150 scientific and research projects financially supported through national and international grant schemes.

Recently the scientific teams of the University have been involved in twenty-three EU 7th Framework Programme projects. These teams closely cooperate with partners from various industrial branches in applied research through six Centres of Excellence, supported via the Operational Programme "Research and Development" in the framework of European Structural Funds. Furthermore, closer cooperation with the industries is entered into through four Centres of Competence and three Centres of applied research. Their achievements are presented mainly through publication activities, submitted patent applications, presentations at international scientific symposiums and conferences, but also at trade fairs and exhibitions.

SK Participant Project Cost: EUR 52 680

SK Participant EC Financial Contribution: EUR 46 973

Project Outcomes planned/real: Type of project: Supporting Action Outcomes: Studies of opportunities and barriers to market uptake of the results of Sustainable Surface Transport research.

Slovak Participant's Role in Project: UNIZA mapped existing competencies in the EU-27 in the domain of industrial research in the transport sector per actor, region and mode. This included market characteristics, industry conditions, key factors, players, barriers, drivers, SMEs. Case studies on intermodality were conducted focusing on

- (a) identification of key players (and investors) and their roles,
- (b) understanding of the policy and institutional setting in which innovation is realised,
- (c) influence of contextual elements over innovation development,
- (d) innovative practices in place (policy, operators, users),
- (e) market structures,
- (f) barriers and drivers.

The dissemination actions carried out played a key role in this project.

PICAV

Project ID: 233776

Project Title: Personal Intelligent City Accessible Vehicle System

Project website: <http://www.dimec.unige.it/pmar/picav/>

Project Start Date: 8/1/2009

Project End Date: 9/30/2012

Project Total Cost: 3938761

Project EC Financial Contribution: 2797050

Slovak participant Name: ZTS VYSKUMNO-VYVOJOVY USTAV KOSICE AS, ZTS VVU KOSICE a.s.

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UNIVERSITA DI PISA - ITALY

TRANSPORTES COLECTIVOS DO BARREIRO - PORTUGAL

ZTS VYSKUMNO-VYVOJOVY USTAV KOSICE AS, ZTS VVU KOSICE a.s. - SLOVAKIA

Project Description: All over the world, transport affects our day-to-day life in many different ways. Our decisions are often influenced by the availability, or the lack of, transport alternatives. Our travel behaviour depends on many inter-related factors.

This project presented a new mobility concept for passengers, ensuring accessibility in urban pedestrian environments. The concept addressed a new Personal Intelligent City Accessible Vehicle ('PICAV') and a new transport system that integrates a fleet of PICAV units. The transport system will ensure accessibility for everybody, including elderly and disabled people.

Project Objectives: The objective of the project was to develop the PICAV transport system. This innovative electrical vehicle presents a new frame-suspension structure, a new seating sub-assembly and a new efficient power supply module. The PICAV transport system will provide an efficient and rational service to citizen within urban traffic restricted areas: the application fields of PICAV are outdoor pedestrian environments where regular public transport services cannot operate because of the width or slope of the infrastructures, uneven pavements and/or the interactions with high pedestrian flows.

This transport system is on-demand and it is based on the car-sharing concept. To overcome the barriers of traditional car-sharing systems, the following specific services will be provided:

- instant access;
- open-ended reservation;
- one-way trips.

The single PICAV units are networked. They can communicate with each other, with the city infrastructure, with public transport in the surrounding area and with emergency services. It allows for a high level of inter modal integration.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 522 068.8

SK Participant EC Financial Contribution: EUR 380 506

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

RISING

Project ID: 218589

Project Title: RIS Services for Improving the Integration of Inland Waterway Transports into Intermodal Chains

Project website: <http://www.rising.eu/web/guest/home>

Project Start Date: 2009-02-01

Project End Date: 2012-07-31

Project Total Cost: EUR 7 519 486.51

Project EC Financial Contribution: EUR 5 279 859.87

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INDUSTRIE-LOGISTIK-LINZ GMBH & CO KG - AUSTRIA

TINC ASSOCIATES NV - BELGIUM

STICHTING MARITIEM RESEARCH INSTITUUT NEDERLAND - NETHERLANDS

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ASOCIATIA CENTRUL NATIONAL DE PROMOVARE A TRANSPORTULUI INTERMODAL - ROMANIA

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KIOS S.R.O. - SLOVAKIA

Project Description: Europe's freight transport system has much room for improvement. Congestion, capacity problems and delays affect mobility and economic competitiveness and are detrimental to the environment and quality of life. Growing overseas trade and EU enlargement towards Central and Eastern Europe are key economic factors which have a great impact on freight transport volumes in Europe. According to forecasts, freight transport volumes are expected to increase by one third until 2015.

In many regions, present patterns of transport growth and the reliance on road transport have led to congestion and pollution, the cost of which are expected to double to 1 % of Europe's annual GDP by 2010 (source: Communication from the Commission on the promotion of inland waterway transport 'NAIADES').

Shifting transport to less energy-intensive, cleaner and safer transport modes is a main concern of the European Union: the EU has committed itself to pursue the goal of promoting the use of transport modes which are less energy-intensive, cleaner and safer. Inland Waterway Transport (IWT) is an obvious choice to play a more prominent role in reaching these targets.



In view of this situation, all modes must become more environmentally friendly, safer and more energy-efficient as well as easily compatible in the transfer points. Co-modality, that is, the efficient use of different modes on their own and in combination, will result in an optimum and sustainable utilisation of resources. Together with other modes, Inland Waterway Transport (IWT) can contribute to the sustainability of the transport system.

Project Objectives: RISING has the overall objective of identifying, integrating and further developing information services such as River Information Services (RIS) in order to efficiently support Inland Waterway Transport (IWT) and logistics operations.

IWT has become an integral part of co-modal transport and logistics chains. As such, the IWT sector has to comply with requirements of supply chain management (SCM). Effective transport infrastructure and high-performance Intelligent Transport Systems (ITS) must be developed further, which will play a key role in this process.

Therefore, there is a need to exploit existing and identify new RIS services for almost every step of an IWT-based process: planning, execution, completion.

Profile of Slovak Participant/ -s: KIOS Ltd. was founded in 1995 as an IT services company, engaging primarily in the customised software development. KIOS has been operating in the market as a professional company in the industry, capitalising on its reliability, professionalism and fair customer relationships. Its business portfolio includes complex services, including consultancy in the field of:

- custom software development,
- development and maintenance of web sites and applications using the latest technology,
- development of mobile application for main mobile platforms such as iOS and Android,
- hardware services such as sales and service of computers, computer configuration, design and implementation of computer networks etc.

KIOS provides comprehensive consultancy services and project implementation in the field of waterway transport development and modernisation on both domestic and European levels, with the main focus being implementation and integration of telematics and intelligent traffic system solutions for inland waterway transport, the so-called River Information Services - RIS. Our services cover areas of project management, research and development, consultancy, expert analyses, concept preparation, as well as implementation of technical solutions with the use of state-of-the-art ICT.

SK Participant Project Cost: EUR 186 200

SK Participant EC Financial Contribution: EUR 138 960

Project Outcomes planned/real: The overall objective of the RISING project was the identification and integration of information and services such that RIS can efficiently support IWT-based T&L operations. The project was carried out in three distinct phases.

In the first phase a common reference model for RISING was developed describing in detail the functions, processes and information exchanges in intermodal transport involving inland waterways.

The result of the second phase was the design and development of new services and applications. A total of sixteen services were implemented, tested and deployed in the eight demonstrator cases by the industry partners. These services relate to the three main activities within RISING:

- Event Management takes place when shipments have been planned and execution may commence. In this context event management consists of three necessary steps: Monitoring of services, Analysis of deviations and Informing Stakeholders. A number of Event Service Modules (ESM) were developed which provide a uniform access to RIS and RIS-like services that can supply relevant information to support IWT based logistics;
- Voyage planning provides transport organisers, fleet planners or skippers of inland vessels with the information they need;

- The intent of the River Information Transport Logistics Services (RIS-TLS) is to support commercial operators in the field of inland waterway transport with tailor-made applications based on RIS systems. Five RIS-TLS applications have been implemented: RIS services facilitating fleet management, usage of RIS for ports and berths, lock management services for transport and logistics, RIS Service Performance Profile as well as the TES Platform.

In the final phase, the results of the demonstrations were evaluated and an exploitation strategy was developed. It has been shown that new RIS services can successfully lead to added value for commercial actors in Inland Waterway Transport.

Slovak Participant's Role in Project: Active participation in the following work packages:

WP 1 – State of the art/Requirement Analysis

- Contribution to RIS related tasks providing knowledge on current RIS services and operators.

WP 2 – Development Integrated Solutions/Event management Service

- Elaboration of system specification of the EMC.

- Implementation of SW modules and integration into existing information systems.

- Testing of SW modules, documentation of the tests and preparation of SW modules for the demonstration.

WP 4 – Development RIS-TLS

- System requirements analysis, preparation of technical concept.

- Preparation of organisational and operational concepts, proposal of system architecture, specification of user roles and rights and definition of user interfaces.

- Implementation and configuration of RIS and TLS services, creation of functional SW prototype.

- Creation of test scenarios, preparation of test protocols, documentation of tests.

WP 5 – Demonstration

- Demonstration of outcomes achieved in WP 2, 4 by implementing the prototypes in daily operation.

WP 6 – Evaluation & Validation

- Contribution to evaluation of T&L subjects selected for the project outcomes demonstration.

WP 7 – Dissemination

- Presentation of project ideas and its goals, cooperation with other project partners.

STAR-NET TRANSPORT

Project ID: 218605

Project Title: European Network to Support the Sustainable Surface Transport SMEs

Project website: <http://www.starnet-transport.eu/>

Project Start Date: 2008-05-01

Project End Date: 2011-01-31

Project Total Cost: EUR 1 033 701

Project EC Financial Contribution: EUR 923 720

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VIESOJI ISTAIGA SOCIALINES IR EKONOMINES PLETROS CENTRAS - LITHUANIA

COMITE DE LIAISON DE LA CONSTRUCTION D'EQUIPEMENTS ET DE PIECES D'AUTOMOBILES CLEPA AISBL* - BELGIUM

SENTERNOVEM - NETHERLANDS

CLIFF FUNNELL ASSOCIATES - UNITED KINGDOM

FUNDACION CIDAUT - SPAIN

FUNDACJA UNIWERSYTETU IM ADAMA MICKIEWICZA W POZNANIU - POLAND

AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA - ITALY

APPLIED RESEARCH AND COMMUNICATIONS FUND - BULGARIA

UNIUNEA ROMANA DE TRANSPORT PUBLIC ASOCIATIEI - ROMANIA

INSTYTUT PODSTAWOWYCH PROBLEMOW TECHNIKI POLSKIEJ AKADEMII NAUK - POLAND

EUROPEAN MARINE EQUIPMENT COUNCIL/CONSEIL EUROPEEN DE L'EQUIPMENT NAVAL - BELGIUM

NEMZETI INNOVACIOS HIVATAL - HUNGARY

TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY

ZILINSKA UNIVERZITA V ZILINE, The University of Zilina- SLOVAKIA

Project Description: The Star-Net transport project will build on 3 interconnected structures: Star-Net transport Central Unit - The Star-Net project is built around a core group of service providers that gathers 4 experienced organisations in providing support services within the Sustainable Surface Transport field and that are currently coordinating successful SSAs (SURFACE NET, TranSMEs, AUTOIN, EURO-TRANS and HUN-POL-TRANS) for the provision of services and/or development of tools for European organisations in order to enhance their participation in Sustainable Surface Transport activities; Star-Net transport Regional Nodes - a network of 17 local nodes, that will benefit from the core group services in order to develop and enhance the competences and skills in order to provide continuous support to organisations in their country. Star-Net transport Advisory Council a network of European key players that will disseminate and promote the project activities on the political level, facilitating communication with the ETPs, future coordinators of FP7-SST-SSAs proposals will be invited for this group.

Project Objectives: The strategic objective of the Star-Net transport is to increase the participation of surface transport-related SMEs in the surface transport programme. The aim of the Star-Net transport project is to be the first step towards the formation and development of a consolidated structure for support of SMEs in Europe for participation in Sustainable Surface Transport activities, building on the knowledge, tools and services developed within some of the most relevant FP6-SUSTDEV support actions over the recent years (SURFACE NET, TranSMEs, AUTOIN, EURO-TRANS and HUN-POL-TRANS) and in future FP7-SST-SSAs projects.

Profile of Slovak Participant/ -s: The University of Zilina (UNIZA), established in 1953 as a public university, provides education at all three levels of higher education in both full-time and part-time forms. With a history of more than half a century of dedication to mostly technology-oriented education and research, the University has taken a prominent place in the Slovak educational and research space not only due to the number of its students, the range of accredited study programmes, but also with its scientific and international activities based on cooperation with domestic and foreign companies and institutions. The main focus of the University's research, education and innovation is oriented towards transport, communications, electrical and mechanical engineering, civil engineering, safety and security, information and communication technologies, economics, and in recent years also towards the humanities and environmental issues. The staff of the University has been involved in more than 150 scientific and research projects financially supported through national and international grant schemes.

Recently the scientific teams of the University have been involved in twenty-three EU 7th Framework Programme projects. These teams closely cooperate with partners from various industrial branches in applied research through six Centres of Excellence, supported via the Operational Programme "Research and Development" in the framework of European Structural Funds. Furthermore, closer cooperation with the industries is entered into through four Centres of Competence and three Centres of applied research. Their achievements are presented mainly through publication activities, submitted patent applications, presentations at international scientific symposiums and conferences, but also at trade fairs and exhibitions.

SK Participant Project Cost: EUR 49 300

SK Participant EC Financial Contribution: EUR 44 067.5

Project Outcomes planned/real: Type of project: Supporting Action Outcomes: Studies of opportunities for support of the SMEs participation in Sustainable Surface Transport research and development.

Slovak Participant's Role in Project: The strategic objective of the Star-Net Transport project was to increase the participation of surface transport-related SMEs in the Sustainable Surface Transport Programme of the European Commission. UNIZA participated in analysing barriers to SME participation in SST collaborative projects. The SMEs were categorized into High-tech SMEs and Low-tech SMEs.

UNIZA carried out awareness activities towards the SMEs and other RTD stakeholders. There were two information days workshops organised in Slovakia. UNIZA also prepared a brochure about the rules and participation in FP7 in the Slovak language.

TELLIBOX

Project ID: 217856

Project Title: Intelligent MegaSwapBoxes for Advanced Intermodal Freight Transport

Project website: <https://www.zlw-ima.rwth-aachen.de/webtellibox/>

Project Start Date: 2008-04-01

Project End Date: 2011-03-31

Project Total Cost: EUR 4 366 534

Project EC Financial Contribution: EUR 3 099 665

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EWALS CARGO CARE B.V. - NETHERLANDS

WECON GMBH NUTZFAHRZEUGE-CONTAINER-TECHNIK - GERMANY

EUROPEAN INTERMODAL ASSOCIATION - BELGIUM

HRD TRAILER-ENGINEERING GMBH - GERMANY

INTERMODAL CONCEPTS & MANAGEMENT AG - SWITZERLAND

CTL LOGISTICS S.A. - POLAND

ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA- SLOVAKIA

Project Description: The project is concerned with the development of an all-purpose loading unit, the MegaSwapBox, which is applicable for intermodal transport of road, rail, inland- and short sea shipping. The MegaSwapBox will combine the advantages of containers and semitrailers via a technical and efficiency feasibility analysis, to be finalised in concrete demonstrators.

The overall aim is to counteract the trend towards increasing freight transport by making better use of the different modes on their own and in combination with each other ('Co-modality'), offered in an integrated, safer, greener, smarter and competitive product.

Project Objectives: The scientific aim is to achieve an all-purpose, intermodal loading unit that is applicable to transport via road, rail, short sea and inland shipping. The advantages of containers and semitrailers will be combined in the MegaSwapBox. Challenges facing the development are that the MegaSwapBox has to be trimodal, stackable and applicable for handling from the top, use existing low floor wagons for rail transport, provide an adaptable chassis for road transport, have an optimised cargo volume of 100m³ with an internal height of 3m, have loading facilities from three sides (completely openable doors) and offer improved safety features against pilferage.



Profile of Slovak Participant/ -s: The University of Zilina (UNIZA), established in 1953 as a public university, provides education at all three levels of higher education in both full-time and part-time forms. With a history of more than half a century of dedication to mostly technology-oriented education and research, the University has taken a prominent place in the Slovak educational and research space not only due to the number of its students, the range of accredited study programmes, but also with its scientific and international activities based on cooperation with domestic and foreign companies and institutions. The main focus of the University's research, education and innovation is oriented towards transport, communications, electrical and mechanical engineering, civil engineering, safety and security, information and communication technologies, economics, and in recent years also towards the humanities and environmental issues. The staff of the University has been involved in more than 150 scientific and research projects financially supported through national and international grant schemes.

Recently the scientific teams of the University have been involved in twenty-three EU 7th Framework Programme projects. These teams closely cooperate with partners from various industrial branches in applied research through six Centres of Excellence, supported via the Operational Programme "Research and Development" in the framework of European Structural Funds. Furthermore, closer cooperation with the industries is entered into through four Centres of Competence and three Centres of applied research. Their achievements are presented mainly through publication activities, submitted patent applications, presentations at international scientific symposiums and conferences, but also at trade fairs and exhibitions.

SK Participant Project Cost: EUR 272 640

SK Participant EC Financial Contribution: EUR 206 360

Project Outcomes planned/real: The purpose of the project was to design and build a prototype of an all-purpose loading unit on the intermodal market. For a sustainable growth of efficient freight transport, more flexibility and intelligent use of capacity is needed. Therefore, advantages of existing loading units - containers, swap bodies and semi-trailers, have been combined into one MegaSwapBox, called TelliBox, while ensuring compliance with EU legislative vehicle and dimension limits:

- Tri-modal;
- Optimised cargo volume of 100m³ - internal height of 3m;
- Stackable and suitable for top handling;
- Compatible for existing low floor wagons for rail transport;
- Adaptable chassis for road transport;
- Accessible from three sides for loading purposes;
- Improved safety features against pilfering.

In six decisive project steps, the multidisciplinary consortium produced a versatile certified prototype of the intermodal loading unit and the chassis which was tested on an intermodal corridor (PL-D-NL-UK). The consortium was open to assessing various 'out of the box' solutions by comparing innovative constructions and materials already in use in other sectors.

The public demonstration took place on 19th March 2011 in Duisburg as one part of the project's Demonstration Phase amongst a number of test runs, which confirmed the effective use of both prototypes in commercial freight transport.

Although the TelliBox has many advanced features, it needs further development, namely in reducing production costs and weight, which are the main drawbacks to its practical usage.



Slovak Participant's Role in Project: The role of UNIZA consisted mostly in 3 work packages. First, in the Analysis phase – analysis of current situation in intermodal transport, needs of freight forwarders (enquiry within industries), analysis of existing intermodal loading units and their transportation were performed, as well as analysis of legislation requirements. The second main role was performed in the Design phase – material analysis of possible use of advanced nonconventional materials for the structural design of the new loading unit was conducted. UNIZA actively participated in designing of the prototype - 3 conceptual variants have been proposed out of which one was selected. UNIZA actively took part in the dissemination phase, during which publicity was given to the project by means of participation at a number of international conferences and by publishing papers on the project.

USTIR

Project ID: 218731

Project Title: User Driven Stimulation of Radical New Technological Steps in Surface Transport

Project website: <http://www.u-stir.eu/>

Project Start Date: 2009-01-01

Project End Date: 2010-12-31

Project Total Cost: EUR 634 707.31

Project EC Financial Contribution: EUR 634 700

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INSTITUTO TECNOLOGICO DEL EMBALAJE, TRANSPORTE Y LOGISTICA - SPAIN

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TECHNICAL UNIVERSITY OF SOFIA – BULGARIA

ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA- SLOVAKIA

Project Description: U-STIR set out to define the know-how and technologies addressing Europe's surface transport problems beyond 2050. A lead user-centred approach stimulates the development and capture of radical new technological concepts. Local connecting offices analysed the shortcomings and established activities reaching out for fundamentally new solutions for mobility and transport demands, improving environmental, economic and social quality in a single step.

Project Objectives: U-STIR was positioned as a horizontal activity, as defined in the work programme for SST.2007.6.4 spanning all surface transport modes. U-STIR stimulated radical technological changes by supporting the development and capture of know-how. The focus lied on technologies which would enable clean and efficient surface transport systems for the second half of this century.

U-STIR activities covered the topics mentioned in the work programme as:

- Developing and implementing mechanisms to foster the creative thinking.
- Triggering, support and development of technological breakthroughs, aiming at introducing radical step changes in surface transport.
- A 'technology incubator' to analyse and evaluate the potential impact of the collected radical and novel ideas.

- A published 'technology watch' dedicated to spotting and monitoring progress in emerging technologies from other sectors with potential application to enhance solutions and concepts in surface transport.

The project partners came from geographic regions with different innovation performance and the partners worked jointly to accelerate innovation in the group of followers, trailing countries and also countries catching up. The complementary expertise of the partners ensured that radical new solutions could be found, supported and evaluated and excellence was achieved in finding the technologies for the future.

Profile of Slovak Participant/ -s: The University of Zilina (UNIZA), established in 1953 as a public university, provides education at all three levels of higher education in both full-time and part-time forms. With a history of more than half a century of dedication to mostly technology-oriented education and research, the University has taken a prominent place in the Slovak educational and research space not only due to the number of its students, the range of accredited study programmes, but also with its scientific and international activities based on cooperation with domestic and foreign companies and institutions. The main focus of the University's research, education and innovation is oriented towards transport, communications, electrical and mechanical engineering, civil engineering, safety and security, information and communication technologies, economics, and in recent years also towards the humanities and environmental issues. The staff of the University has been involved in more than 150 scientific and research projects financially supported through national and international grant schemes.

Recently the scientific teams of the University have been involved in twenty-three EU 7th Framework Programme projects. These teams closely cooperate with partners from various industrial branches in applied research through six Centres of Excellence, supported via the Operational Programme "Research and Development" in the framework of European Structural Funds. Furthermore, closer cooperation with the industries is entered into through four Centres of Competence and three Centres of applied research. Their achievements are presented mainly through publication activities, submitted patent applications, presentations at international scientific symposiums and conferences, but also at trade fairs and exhibitions.

SK Participant Project Cost: EUR 108 371

SK Participant EC Financial Contribution: EUR 108 370

Project Outcomes planned/real: Type of project: Supporting Action; Outcomes: Studies and development of system in support of the radical innovation in the domain of sustainable surface transport.

Slovak Participant's Role in Project: As a coordinator UNIZA was responsible for the strategic/quality management, as well as for the day-to-day administrative and financial management. UNIZA organized workshops with experts from the research and industry, cooperated with existing Technology Transfer Platforms and Science Industry Platforms. Desk research was focused on preparing the path for technological innovation by motivating potential inventors to put forward proposals for radical new solutions. UNIZA also summarised the results, concluded depicting scenarios for a successful technology innovation policy in Europe and defined the general dissemination plan.

VEL-WAGON

Project ID: 265610

Project Title: Versatile, Efficient and Longer Wagon for European Transportation

Project website: <http://www.vel-wagon.eu/>

Project Start Date: 2010-12-01

Project End Date: 2012-12-31

Project Total Cost: EUR 1 107 704

Project EC Financial Contribution: EUR 831 687

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TATRAVAGONKA A.S.- SLOVAKIA

ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA- SLOVAKIA

Project Description: The basic idea of VEL-Wagon is that in the future, longer loading surfaces without interruptions, as well as more capable platforms with higher axle loads and with lower loading heights will be necessary to increase the capacity of the freight railway transportation. This can be understood as a follow-up to the current trend of enlarging the vehicles of other means of transportation like the Jumbo and Giga-liners trucks.

Project Objectives: Project VEL-Wagon is a key milestone for the efficiency of intermodal freight wagons since it demonstrates that fewer elements and less dead weight can result in the same or even more transport output. Coherently, the project designs a versatile platform element for a multipurpose function and intermodal use that brings about an important gain in flexibility, accessibility and efficiency of railway services. The project investigates the current status of the European freight railway market and, more importantly, it looks at the trends therein and its associated logistics. In synchronisation, a wagon engineering activity will be launched for determining the final costs of a solution matching the market requirements. The basic working paradigm is the market need for longer and lighter wagons with fewer axles.



This has already been corroborated in a recent study commissioned by FERRMED and corresponds with the intermodal market trend of using increasingly longer intermodal loading units. Indeed, in advanced and modern logistics, due to the transportation of finished and semi-finished products, the value of the cargo has increased and its density has decreased. The project examines the limits of light wagon construction and the future infrastructure response to the increasingly challenging railway traffic. The investigation will be initiated with concrete wagon concepts to be examined, namely, 4-axle rigid platforms of 80 to 90 feet length. The outcome will be a compromised solution between economic aspects and technical constraints. Intentionally, the result will pave the way for further investigations of max allowable axle load in Europe, since, in respect to infrastructure solicitation, fewer axles with somewhat higher load may be equivalent to more axles with regular load. The research intention of VEL-Wagon is necessary for understanding and paving the way for the future European transportation sustainability.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: At present, Tatravagonka a.s. (TVP) ranks among the most important producers of rail freight vehicles and bogies in Europe. It has more than 85 years of experience in mechanical engineering, where it has found its stable place thanks to modern, continuously developing technologies, quality constructions, qualified working power and stable partners. Due to its ability to construct any kind of wagon TVP has become a reliable partner for railways all over Europe - the condition of fulfilling its production plan for future years. With relying on its long-standing tradition of development and construction, its mission is to be a reliable partner capable of fulfilling individual as well as specific requirements of each customer regardless of time.

Line of business:

- development, production and sales of rail freight and passenger transport vehicles and their components, special-purpose versions of such vehicles, rail vehicle subgroups, special-purpose metal-working and welding machines and equipment,

- repairs and maintenance of railway vehicles,

- metal-working bogies in Europe.

SK Participant Project Cost: EUR 140 530.8

SK Participant EC Financial Contribution: EUR 82 912

Project Outcomes planned/real: TATRAVAGONKA a.s. acted as task leader of 3 work packages. The company has participated in the technical concept – definition of the basic parameters and development of the VEL-wagon, definition of the basic parameters of the wagons, final models (optimised) and cost estimation. The Development and Sales Departments were responsible for tasks mentioned, with the competences development and sales departments of Dipl.-Ing. Jan Valigursky and Dipl.-Ing. Marian Moravčík, PhD.

Task 4.1 Technical concept definition - The task is a basic stage of process of development of the VEL – wagon. The purpose of the activity is to determine a conceptual solution for the wagon, which will be based in legislative condition of TSI, in theoretical and practical knowledge of research and development of the wagon conducted thus far by partners, in knowledge from WP1 and WP2, as well as in analysis of current technical level. The activity will be performed by a team consisting of the most experienced research and development partner employees, who possess wide theoretical knowledge and practical experience. In the activity realisation process, all relations will be evaluated, direction of development, market needs, environmental effects, influences upon European transportation infrastructure, economic aspects, competitiveness, employment and legislation. The result is an elaboration of the conceptual proposal for the wagon with the greatest perspective to be successful in the market, which meets TSI criteria and aims of the project. In addition to that, the interaction of the wagon with transshipment equipment was dealt with.

Task Leader: TVP; Participants: KTH, UNIZA, TVP

Task 4.2 Definition of the basic parameters of the wagons - The task draws upon the previous stage by the stage of development process of VEL-wagon. The purpose of the activity is to evaluate actual knowledge and to determine technical parameters, which is based in legislative condition of TSI, in theoretical and practical knowledge research and development of the wagon conducted by partners thus far. Calculations corresponding to dimensional parameters regarding the kinematic gauge was performed, as well as narrowing and calculations connected with strength parameters of the wagon. The activity was performed by a team consisting of experienced research and development partner employees, who possess wide theoretical knowledge and practical experience in the given field. In the activity realisation process, evaluated all relations and results were evaluated so that they would lead to determination of technical parameters, which would meet TSI and aims of the project.

Task Leader: TVP; Participants: UNIZA, TVP

Slovak Participant's Role in Project: TATRAVAGONKA a.s. was task leader in 3 work packages. The company participated in technical concept – definition of the basic parameters and development of the VEL-wagon, Definition of the basic parameters of the wagons, Final models (optimised) and cost estimation. The Development and Sales Departments were responsible for tasks mentioned, with the competences development and sales departments of Dipl.-Ing. Jan Valigursky and Dipl.-Ing. Marian Moravčík, PhD



Task 4.1 Technical concept definition - The task is a basic stage of process of development of the VEL – wagon. The purpose of the activity is to determine a conceptual solution for the wagon, which will be based in legislative condition of TSI, in theoretical and practical knowledge of research and development of the wagon conducted thus far by partners, in knowledge from WP1 and WP2, as well as in analysis of current technical level. The activity will be performed by a team consisting of the most experienced research and development partner employees, who possess wide theoretical knowledge and practical experience. In the activity realisation process, all relations will be evaluated, direction of development, market needs, environmental effects, influences upon European transportation infrastructure, economic aspects, competitiveness, employment and legislation. The result is an elaboration of the conceptual proposal for the wagon with the greatest perspective to be successful in the market, which meets TSI criteria and aims of the project. In addition to that, the interaction of the wagon with transshipment equipment was dealt with.

Task Leader: TVP; Participants: KTH, UNIZA, TVP

Task 4.2 Definition of the basic parameters of the wagons
- The task draws upon the previous stage by the stage of development process of VEL-wagon. The purpose of the activity is to evaluate actual knowledge and to determine technical parameters, which is based in legislative condition of TSI, in theoretical and practical knowledge research and development of the wagon conducted by partners thus far. Calculations corresponding to dimensional parameters regarding the kinematic gauge was performed, as well as narrowing and calculations connected with strength parameters of the wagon. The activity was performed by a team consisting of experienced research and development partner employees, who possess wide theoretical knowledge and practical experience in the given field. In the activity realisation process, evaluated all relations and results were evaluated so that they would lead to determination of technical parameters, which would meet TSI and aims of the project.

Task Leader: TVP; Participants: UNIZA, TVP

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: The University of Zilina (UNIZA), established in 1953 as a public university, provides education at all three levels of higher education in both full-time and part-time forms. With a history of more than half a century of dedication to mostly technology-oriented education and research, the University has taken a prominent place in the Slovak educational and research space not only due to the number of its students, the range of accredited study programmes, but also with its scientific and international activities based on cooperation with domestic and foreign companies and institutions. The main focus of the University's research, education and innovation is oriented towards transport, communications, electrical and mechanical engineering, civil engineering, safety and security, information and communication technologies, economics, and in recent years also towards the humanities and environmental issues. The staff of the University has been involved in more than 150 scientific and research projects financially supported through national and international grant schemes.

Recently the scientific teams of the University have been involved in twenty-three EU 7th Framework Programme projects. These teams closely cooperate with partners from various industrial branches in applied research through six Centres of Excellence, supported via the Operational Programme "Research and Development" in the framework of European Structural Funds. Furthermore, closer cooperation with the industries is entered into through four Centres of Competence and three Centres of applied research. Their achievements are presented mainly through publication activities, submitted patent applications, presentations at international scientific symposiums and conferences, but also at trade fairs and exhibitions.

SK Participant Project Cost: EUR 263 460.8

SK Participant EC Financial Contribution: EUR 199 091



Project Outcomes planned/real: Type of project: Cooperation Project; Outcomes: Design and technical specifications of a versatile, efficient and longer wagon for European freight transport.

Slovak Participant's Role in Project: UNIZA was involved in the feasibility study, market and technical research of a new type of wagon for freight transport, usable for the transport of containers. Market research included the rail freight traffic situation and forecast, market and corridor identification, as well as three basic wagon concept definitions. Market research was oriented towards intermodal and multipurpose applications. In each category traffic analysis, infrastructure analysis and terminal integration was studied. The focus of UNIZA was oriented towards CEEC. The research staff of UNIZA participated in concept definition and technical development, leading to the design and construction of the 3D model of the wagon with desired characteristics. Dynamic and static analysis of the models were performed, including strength calculations, dynamic analyses, simulation and optimization. In cooperation with the second Slovak partner – Tatravagonka Poprad - the construction documentation was prepared. UNIZA was also involved in economic analyses and market definition.

1. Specific programme
COOPERATION

*1.8 Socio-economic
Sciences and the Humanities*



ANTICORRP

Project ID: 290529

Project Title: Anticorruption Policies Revisited. Global Trends and European Responses to the Challenge of Corruption

Project website: <http://anticorpp.eu/>

Project Start Date: 2012-03-01

Project End Date: 2017-02-28

Project Total Cost: EUR 10 464 408.4

Project EC Financial Contribution: EUR 7 999 182

Slovak participant Name: SKOLA KOMUNIKACIE A MEDII, N.O.

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UNIVERSITY COLLEGE LONDON - UNITED KINGDOM

THE UNIVERSITY OF NOTTINGHAM - UNITED KINGDOM

BUDAPESTI CORVINUS EGYETEM - HUNGARY

PARTNERSHIP FOR SOCIAL DEVELOPMENT - CROATIA

SOCIETATEA ACADEMICA DIN ROMANIA - ROMANIA

GIGA GERMAN INSTITUTE OF GLOBAL AND AREA STUDIES - GERMANY

EUROPEAN UNIVERSITY INSTITUTE - ITALY

THE GALLUP ORGANISATION EUROPE - BELGIUM

HERTIE SCHOOL OF GOVERNANCE GGMBH - GERMANY

BASEL INSTITUTE ON GOVERNANCE - SWITZERLAND

SABIEDRISKAS POLITIKAS CENTRS PROVIDUS - LATVIA

ELLINIKO IDRYMA EVROPAIKIS KAI EXOTERIKIS POLITIKIS (HELLENIC FOUNDATION FOR EUROPEAN AND FOREIGN POLICY) - GREECE

TRANSPARENCY INTERNATIONAL EV - GERMANY

UNIVERSITEIT VAN AMSTERDAM - NETHERLANDS

CENTER FOR THE STUDY OF DEMOCRACY - BULGARIA

HACETTEPE UNIVERSITESI - TURKEY

UNIVERSITA' DEGLI STUDI DI BERGAMO - ITALY

SKOLA KOMUNIKACIE A MEDII, N.O. - SLOVAKIA



Project Description: The project will identify general global trends concerning corruption and select 'over-performing' and 'under-performing' countries (in Europe and in other regions) in terms of their progress towards less corrupt governance regimes and conduct more detailed qualitative analyses of these cases. In addition, a large-scale survey of various aspects of "the quality of government" in all EU member states will be conducted. This interdisciplinary project includes researchers from Anthropology, Criminology, Economics, Gender studies, History, Law, Political science, Public policy and Public administration. The project is organised into four thematic pillars, which include 11 substantive work packages.

Project Objectives: The main objectives of ANTICORRP are:

- 1) Propose an encompassing yet precise definition of corruption that clearly differentiates corrupt actions from other types of criminal or ethically problematic actions.
- 2) Create a panel data-set of indicators allowing the tracing of corruption levels over time by country and region through identifying new indicators documented in the project with established, perception-based ones.
- 3) Engage in historical and contemporary case study research and qualitative comparisons across cases to explain why countries reach different equilibria with regard to government accountability and the control of corruption.
- 4) Explain governance regime change as documented by our time series through global models developed through quantitative comparative analysis.

- 5) Conduct an extensive survey on monitoring corruption and quality of governance that documents the diversity of contemporary governance landscapes, regulatory frames and anti-corruption strategies in the EU and in countries neighbouring the EU.
- 6) Document the impact and cost of corruption through a variety of case studies across the globe.
- 7) Provide the first systematic study of the impact of EU funds on the governance of recipient countries.
- 8) Investigate the success or failure of a significant number of anti-corruption 'leaders' in relation to their empowering contexts.
- 9) Investigate the success or failure of a significant number of anti-corruption projects and analyse what explains the variation in outcomes.
- 10) Disseminate the findings of the project through academic articles, edited books and policy papers.

Profile of Slovak Participant/ -s: School of Communication and Media, n. o., research organisation

SK Participant Project Cost: EUR 89 779.2

SK Participant EC Financial Contribution: EUR 70 074

Project Outcomes planned/real: quantitative study on media and corruption, qualitative case study on media and corruption

Slovak Participant's Role in Project: participant

BLUE-ETS

Project ID: 244767

Project Title: BLUE-Enterprise and Trade Statistics

Project website: <http://www.blue-ets.istat.it/>

Project Start Date: 2010-04-01

Project End Date: 2013-03-31

Project Total Cost: EUR 3 397 538.08

Project EC Financial Contribution: EUR 2 666 250

Slovak participant Name: INFOSTAT- INSTITUT INFORMATIKY A STATISTIKY INFOSTAT

Slovak participant address: DÚBRAVSKÁ CESTA 3, 845 24 BRATISLAVA

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Partners of the Consortium:

ISTITUTO NAZIONALE DI STATISTICA - ITALY

UNIVERZA V LJUBLJANI - SLOVENIA

ALMA MATER STUDIORUM-UNIVERSITA DI BOLOGNA - ITALY

STATISTISK SENTRALBYRAA - STATISTICS NORWAY - NORWAY

CENTRAAL BUREAU VOOR DE STATISTIEK - NETHERLANDS

THE UNIVERSITY OF MANCHESTER - UNITED KINGDOM

CENTRE FOR EUROPEAN POLICY STUDIES - BELGIUM

UNIVERSITA DEGLI STUDI DI FIRENZE - ITALY

STATISTICNI URAD REPUBLIKE SLOVENIJE - SLOVENIA

UNIVERSITA' DEGLI STUDI DI BERGAMO - ITALY

STATISTISKA CENTRALBYRAN - SWEDEN

INSTITUT FUER ARBEITSMARKT- UND BERUFSFORSCHUNG (IAB) DER
BUNDESAGENTUR FUER ARBEIT - GERMANY

UNIVERSITAET TRIER - GERMANY

UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II. - ITALY

UNIVERSITY OF SOUTHAMPTON - UNITED KINGDOM

INSTITUT INFORMATIKY A STATISTIKY INFOSTAT- SLOVAKIA

Project Description: BLUE-ETS was a project based on official business statistics and, specifically, on one of EU NSIs key challenges; which provided high quality and robust statistical information, for better policy and socio-economic research, and supported the renewed Lisbon Strategy, while:

- Reducing the response burden
- Simplifying and setting priorities
- Cutting costs on enterprises that stemmed from red-tape, over-regulation and duplications
- Modernizing and re-engineering the methods for the production of statistics
- Making data collection less burdensome and providing more information.

Project Objectives:

The main project goals were:

- Responding to a changing and growing demand for new and better data on business statistics;
- Proposing cost-efficient improved ways to collect, disseminate, use and access data for both research and policy purposes;
- Reducing the burden imposed by data collecting regulation on businesses.

Profile of Slovak Participant/ -s: INFOSTAT - Institute of Informatics and Statistics is a research and development institute of the National Statistical Office of the Slovak Republic. INFOSTAT solves innovative tasks of state statistics in the field of methodological procedures for statistical analyses, statistical surveys and the application of advanced information technology. In the desired range addresses the methodological challenges, prepares analyses and forecasts of economic and social development and evolves technology tools for working with large sets of statistical data and for presentation of statistical data. Its activities mainly focused on addressing the innovation tasks of national statistics, whose results contribute to the development of state statistics in the European Statistical System (ESS) and are in accordance with the methodological, substantive, organizational and technological standards of statistical EU authorities. The key outcomes of INFOSTAT are statistical analyses and development of forecasts of the Slovak economy and innovations of statistical information system, including statistical data processing. The results of statistical analyses and forecasts are used to short-term forecasting Slovakia's economic development. Similarly, monitoring of processed domestic macroeconomic forecasts and foreign institutions serves state authorities as a basis for the analysis of economic development. INFOSTAT employs approx. 40 employees in its research and development departments. Composition of staff covers the statistical and macroeconomics analysts, specialists on demography analysis and prognosis, analysts and designers of information systems, system and application programmers, and project managers.

SK Participant Project Cost: EUR 278 400

SK Participant EC Financial Contribution: EUR 214 400

Project Outcomes planned/real: Work package 2 – “NSIs’ practices concerning business burden and motivation”: detailed review of literature on the measurement and reduction of response burden imposed by NSIs on enterprises and survey among 41 NSIs on actual response burden. Work package 3 - “Business perspectives related to NSIs’ statistics”: examination of business practices in using NSI statistics and a cross-country study among businesses. Work package 4 - “Improve the use of administrative sources”: development of approach that can be applied to determine the quality of administrative data sources for statistics production and developing a Quality Report Card. Work package 5 - “New ways of collecting and analysing information” - examination of applicability of soft computing approaches and text mining techniques to improve the collection and the quality of data for business and trade statistics. Work package 6 - “Enhancing quality of business statistics”: introducing statistical methods that deal with the problems allied to the production of disaggregated estimates for business statistics. Work package 7 - “Business data integration, systematization and access”: the study of methods for managing the quality in producing economic statistics. Work package 8 - Methodological case studies”: – empirically testing methodologies developed in work packages 2, 3, 4, 5. Work package 9 - “New types of indicators - Applying results”: linking data to indicators for better grasping and handling problems. Work package 10 - “Improve the Dialogue across EU NSIs and Stakeholders”: improving the dialogue across EU with the aim to involve in the Project the main stakeholders in 2 workshops where main results from WP2, WP3, WP5 and WP8 were presented.

Slovak Participant's Role in Project: The leader of Work package 5 in which new ways of collecting and analysing information were researched. Preparation of 2 deliverables: Deliverable 5.1 by M. Hudec et al. (2012), Report on principles of fuzzy methodology and tools developed for use in data collection (Soft computing and text mining tools for Official Statistics) and Deliverable 5.2 by S. Balbi et al. (2013), Report on analysis of existing practices in the data collection field. The coordinator of Work package 8 in which 21 methodological case studies were conducted and summarized in 4 deliverables. INFOSTAT prepared 2 deliverables: Deliverable 8.3 by M. Klúčik et al. (2012), Final report on the case study results on usage of IT tools and procedures developed for data collection and Deliverable 8.4, edited by M. Hudec, Evaluation report on case studies.



CONSENT

Project ID: 244643

Project Title: Consumer sentiment regarding privacy on user generated content services in the digital economy

Project website: <http://consent.law.muni.cz/>

Project Start Date: 2010-05-01

Project End Date: 2013-04-30

Project Total Cost: EUR 3 105 260.2

Project EC Financial Contribution: EUR 2 599 570

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

Slovak participant address: ŠAFÁRIKOVÁ NÁM. 6, 818 06 BRATISLAVA

Contact person email/ phone: prof. Ing. Dušan Šoltés, PhD., dusan.soltes@fm.uniba.sk, +421 2 50 117 483

Partners of the Consortium:

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CONSIGLIO NAZIONALE DELLE RICERCHE - ITALY

GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN STIFTUNG ÖFFENTLICHEN RECHTS - GERMANY

GOTTFRIED WILHELM LEIBNIZ UNIVERSITÄT HANNOVER - GERMANY

WESTFÄLISCHE WILHELMS-UNIVERSITÄT MÜNSTER - GERMANY

UNIVERSITEIT LEIDEN - NETHERLANDS

UNIVERSITÀ MALTA - MALTA

MASARYKOVA UNIVERZITA - CZECH REPUBLIC

UNIVERSITATEA BABES BOLYAI - ROMANIA

UNIWERSYTET WROCLAWSKI - POLAND

LAW AND INTERNET FOUNDATION - BULGARIA

ASOCIATIA PENTRU TEHNOLOGIE SI INTERNET - ROMANIA

UNIVERSITE PARIS-SUD - FRANCE

UNIVERSIDAD DE LEON - SPAIN

THE QUEEN'S UNIVERSITY OF BELFAST - UNITED KINGDOM

UNIVERSITY OF CENTRAL LANCASHIRE - UNITED KINGDOM

COPENHAGEN BUSINESS SCHOOL - DENMARK

LABORATORIO DI SCIENZE DELLA CITTADINANZA - LSC - ITALY

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA - SLOVAKIA

Project Description: One of the key changes in societal trends and lifestyles witnessed over the past few years was the move on-line of many consumers and the way they became increasingly sophisticated in their media consumption habits. Did these recent changes to consumer and commercial practices develop in such a way that consumers were (in)voluntarily signing away their fundamental right to privacy?

This CONSENT project sought to examine how consumer's behaviour, and commercial practices had been changing

the role of consent in the processing of personal data. While consumer consent was a fundamental value on which the European market economy was based, the way consumer's consent was obtained had been questionable in popular user-generative/user-generated (UGC) online services (including sites like MySpace, YouTube and Facebook), whose commercial success depended to a large extent on the disclosure by their users of substantial amounts of personal data.

Project Objectives: One of the key changes in societal trends and lifestyles witnessed over the past few years had been the move on-line of many consumers and the way they had become increasingly sophisticated in their media consumption habits. Did these recent changes to consumer and commercial practices develop in such a way that consumers were (in)voluntarily signing away their fundamental right to privacy?

CONSENT was a collaborative project that sought to examine how consumer behaviour, and commercial practices had been changing the role of consent in the processing of personal data.

CONSENT aimed to study and analyse:

- Changes in consumer online behaviour
- Behaviour and consumer culture
- Effects of contractual, commercial and technical practices on consumer choice
- Consumer attitudes toward personal privacy

Profile of Slovak Participant/ -s: Fakulta managementu UK, Faculty of Management

SK Participant Project Cost: EUR 113 200

SK Participant EC Financial Contribution: EUR 94 000

Project Outcomes planned/real: CONSENT was a collaborative project that sought to examine how consumer behaviour, and commercial practices were changing the role of consent in the processing of personal data. CONSENT aimed to study and analyse: Changes in consumer online behaviour; Behaviour and consumer culture; Effects of contractual, Commercial and technical practices on consumer choice; Consumers' attitudes toward personal privacy.

Slovak Participant's Role in Project: Comenius university is project partner, contact person prof. Ing. Dušan Šoltés, CSc.

EDUMIGROM

Project ID: 217384

Project Title: Ethnic Differences in Education and Diverging Prospects for Urban Youth in an Enlarged Europe

Project website: <http://www.edumigrom.eu/>

Project Start Date: 2008-03-01

Project End Date: 2011-02-28

Project Total Cost: EUR 1 664 186

Project EC Financial Contribution: EUR 1 291 892

Slovak participant Name: SOCIOLOGICKÝ USTAV SLOVENSKEJ AKADEMIE VIED, Institute for Sociology, Slovak Academy of Sciences

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HESSISCHE STIFTUNG FRIEDENS- UND KONFLIKTFORSCHUNG - GERMANY

UNIVERSITY OF LEEDS - UNITED KINGDOM

KØBENHAVNS UNIVERSITET - DENMARK

STOCKHOLMS UNIVERSITET - SWEDEN

UNIVERSITATEA BABES BOLYAI - ROMANIA

MAGYAR TUDOMÁNYOS AKADEMIA TARSADALOMTUDOMÁNYI KUTATOKOZPONT - HUNGARY

UNIVERSITE VICTOR SEGALEN BORDEAUX II - FRANCE

MASARYKOVA UNIVERZITA - CZECH REPUBLIC

MAGYAR TUDOMÁNYOS AKADEMIA SZOCIOLÓGIAI KUTATÓINTÉZET - HUNGARY

SOCIOLOGICKÝ USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE FOR SOCIOLOGY, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: The research project EDUMIGROM aims to study how ethnic differences in education contribute to the diverging prospects for minority ethnic youth and their peers in urban settings. EDUMIGROM will explore how far existing educational policies, practices and experiences in markedly different welfare regimes protect minority ethnic youth against marginalization and eventual social exclusion. The project will critically examine the role of education in these processes of 'minoritization'. In ethnically diverse urban communities, schools often become targets for locally organized political struggles shaped by a broader political and civic culture of ethnic mobilization. EDUMIGROM will investigate how schools operate in their roles of socialization and knowledge distribution, and how they influence young people's identity formation. The project will also explore how schools contribute to reducing, maintaining, or deepening inequalities in young people's access to the labor market, further education and training, and also to different domains of social, cultural, and political participation. The results of macro-level investigations, a comparative survey and multi-faceted field research in local settings will provide rich datasets for intra- and cross-country comparisons and evidence-based policy making.

Project Objectives: The main objectives of the project are as follows:

- to develop an integrated investigation into the factors that forge ethnic differences in education and their consequences for the lives of young people in ethnically diverse communities throughout Europe. To this end, a comprehensive theoretical framework will be elaborated to explain commonalities and potentially different causes and outcomes of the processes of 'minoritization' and social exclusion of second-generation migrant and Roma youth. Up until now these cases have been analyzed separately, therefore this research breaks new ground;

- to study in cross-national perspective how everyday interactions in urban communities generate distinctive school practices. These are understood in terms of their own complexities as well as part of more encompassing political and distributive structures. Local inter-ethnic confrontations and clashes over and within schools will be examined in the broader context of variations in interacting ethnic relations, educational policies and welfare regimes across Europe;

- to examine how the discourses, patterns, and performances of identity formation among young people are constituted through school practices. The research will reveal how and when ethnic categories become relevant, and these will be explored with reference to alternative identifications such as gender, class, religion, family background, and peer subculture. Further, special attention will be paid to variations in reactive identity strategies, and their consequences for lifestyles, strategies and prospects for minority ethnic youth;

- to study and compare how educational practices and identity formation contribute to claims on citizenship. The project intends to uncover how educational practices marking and crossing ethnic lines generate incentives to understand and claim citizenship among youth, and how schools themselves become subject of citizenship claims in inter-ethnic contexts;

- to formulate evidence-based policy recommendations toward the inclusion of often marginalized ethnic youth in and through education. The research collective intends to revisit the principles of diversity and multicultural citizenship in shaping macro-level policies in education, to assess the (non) inclusion effects of local educational practices, and to feed this knowledge into decision-making over local schooling, and the training and in-service training of teachers, managers and other personnel in education.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 106 560

SK Participant EC Financial Contribution: EUR 79 920

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ENRI-EAST

Project ID: 217227

Project Title: Interplay of European, National and Regional Identities: nations between states along the new eastern borders of the European Union

Project website: <http://www.enri-east.net/en/>

Project Start Date: 2008-04-01

Project End Date: 2011-09-30

Project Total Cost: EUR 1 722 969

Project EC Financial Contribution: EUR 1 500 000

Slovak participant Name: UNIVERZITA SV CYRILA A METODA V TRNAVE, The University of Ss. Cyril and Methodius

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Contact person email/ phone: Prof. Ladislav Macháček, ladislav.machacek@gmail.com, +42 1 33 5565422

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OXFORD XXI - UNITED KINGDOM

EAST-UKRAINIAN FOUNDATION FOR SOCIAL RESEARCH - UKRAINE

UNIwersytet Marii Curie-Skłodowskiej - POLAND

TARKI TARSADALOMKUTATASI INTEZET ZRT - HUNGARY

STIFTUNG ZUR ERFORSCHUNG DES EUROPAISCHEN OSTENS - OSTEUROPA-INSTITUT - GERMANY

BELARUSIAN STATE UNIVERSITY - BELARUS

M V LOMONOSOV MOSCOW STATE UNIVERSITY - RUSSIA

LIETUVOS SOCIALINIŲ TYRIMŲ CENTRAS - LITHUANIA

THE UNIVERSITY COURT OF THE UNIVERSITY OF ABERDEEN - UNITED KINGDOM

STIFTUNG ZUR ERFORSCHUNG VON OST-UND SUEDEOSTEUROPA - GERMANY

UNIVERZITA SV CYRILA A METODA V TRNAVE, THE UNIVERSITY OF SS. CYRIL AND METHODIUS

Project Description: ENRI-East is an international research project dedicated to the study of socio-ethnic identities in East European countries. This is a study with equally strong theoretical, methodological and empirical components and deploying methods and approaches of a variety of social sciences. By and large, this is a pilot scientific effort: no study like that has been ever done before in terms of its geographical coverage, thematic scope as well as variety of research tools and methods.

Project Objectives: This project aims to galvanise three perspectives on the dynamic relationships between identities and state restructuring. Those three perspectives are the restructuring of the nation-state, the increasing self legitimisation of states (rearrangement of the relationship between state and society) and observation of emerging identities at different levels (supra-national, sub-national and global), and their complex relationships on the level of individual and group experiences and practices. The Main goal of the ENRI-East project is to develop an in-depth understanding of the ways in which the modern European identities and regional cultures are formed and how these are inter-communicated in the Eastern part of the European continent.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 22 800

SK Participant EC Financial Contribution: EUR 19 200

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

FOODSECURE

Project ID: 290693

Project Title: Exploring the Future of Global Food and Nutrition Security

Project website: <http://www.foodsecure.eu/>

Project Start Date: 2012-03-01

Project End Date: 2017-02-28

Project Total Cost: EUR 10 359 847

Project EC Financial Contribution: EUR 7 998 000

Slovak participant Name: SLOVENSKA POLNOHOSPODARSKA UNIVERZITA V NITRE, Slovak Agricultural University in Nitra

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INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE - FRANCE

INTERNATIONALES INSTITUT FUER ANGEWANDTE SYSTEMANALYSE - AUSTRIA

KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM

FONDATION POUR L'ETUDE DES RELATIONS INTERNATIONALES ET DU DEVELOPPEMENT - SWITZERLAND

CENTRE DE COOPERATION INTERNATIONAL EN RECHERCHE AGRONOMIQUE POUR LE DEVELOPPEMENT - FRANCE

INSTITUTE OF AGRICULTURAL ECONOMICS - ROMANIA

EMPRESA BRASILEIRA DE PESQUISA AGROPECUARIA - BRAZIL

MINISTERIE VAN INFRASTRUCTUUR EN MILIEU - NETHERLANDS

PROSPEX BVBA - BELGIUM

FONDATION INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT DURABLE ET LES RELATIONS INTERNATIONALES - FRANCE

INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE - IFPRI - UNITED STATES

JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM

RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITAET BONN - GERMANY

UNIVERSITA DEGLI STUDI ROMA TRE - ITALY

INSTITUTE OF GEOGRAPHICAL SCIENCES AND NATURAL RESOURCES RESEARCH, CHINESE ACADEMY OF SCIENCES - CHINA

ETHIOPIAN ECONOMICS ASSOCIATION - ETHIOPIA

SLOVENSKA POLNOHOSPODARSKA UNIVERZITA V NITRE, SLOVAK AGRICULTURAL UNIVERSITY IN NITRA - SLOVAKIA

Project Description: One of the biggest challenges facing global society today is the widespread and growing presence of hunger and food insecurity. Given that the lead time for some social and technological solutions is long, a long-term framework on global food and nutrition security (FNS) is required. FoodSecure aims at improving the resilience of the food system, by providing a means to mitigate risks and uncertainties in the world food system caused by economic and climatic shocks while providing for sustainable economic growth. The project provides an analytical toolbox to experiment, analyse, and coordinate the effects of short and medium term policies, thereby allowing for the execution of consistent, coherent, long-term strategies with desirable sequences.

Project Objectives: The food system is analysed in relationship to the ecosystem, energy, and financial markets, all of which are potential sources of shocks that can disrupt the food system. In addition, it is examined in light of fundamental societal trends and changing attitudes towards food consumption and production. The project emphasises the diversity of challenges of FNS in countries and regions. The project delivers new empirical evidence on the drivers of global FNS, and classifies regions and livelihood systems in typologies. A harmonised data system and modelling toolbox are developed for forecasts (on short term) and forward looking (towards 2050) on future hunger. A support for effective and sustainable actions will include the identification of the critical pathways for technological and institutional change and for EU policies in the areas of development aid, climate change, trade, common agricultural policy and renewable energy, including sustainability criteria

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 213 333.87

SK Participant EC Financial Contribution: EUR 160 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

IRISS

Project ID: 290492

Project Title: Increasing Resilience in Surveillance Societies

Project website: <http://irissproject.eu/>

Project Start Date: 2012-02-01

Project End Date: 2015-01-31

Project Total Cost: EUR 3 380 351.15

Project EC Financial Contribution: EUR 2 596 770.41

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

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Partners of the Consortium:

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FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY

OESTERREICHISCHE AKADEMIE DER WISSENSCHAFTEN - AUSTRIA

THE OPEN UNIVERSITY - UNITED KINGDOM

VRIJE UNIVERSITEIT BRUSSEL - BELGIUM

THE UNIVERSITY OF EDINBURGH - UNITED KINGDOM

THE UNIVERSITY OF SHEFFIELD - UNITED KINGDOM

UNIVERSITAT DE BARCELONA - SPAIN

UNIVERSITÄT DER BUNDESWEHR MÜNCHEN. - GERMANY

UNIVERSITÄT HAMBURG - GERMANY

EÖTVÖS Károly Közpolitikai Nonprofit Közhatalmú Korlátolt Felelősségű Társaság - HUNGARY

TRILATERAL RESEARCH & CONSULTING LLP - UNITED KINGDOM

THE UNIVERSITY OF STIRLING - UNITED KINGDOM

UNIVERSITÀ CATTOLICA DEL SACRO CUORE - ITALY

FUNDACIÓ PER A LA UNIVERSITAT OBERTA DE CATALUNYA - SPAIN

INSTITUTT FOR FREDSFORSKNING STIFTELSE – NORWAY

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-SLOVAKIA

Project Description: IRISS will reconstruct the spread of surveillance systems and technologies in public and private sectors from the perspective of their impact on the fabric of a democratic society. The project will focus on the observable effects and everyday understanding of surveillance in contemporary Europe, analysing differences within and between individual societies and matching the observable effects against the situation in other parts of the world.

The project will pursue a strategy of in-depth analysis of a broad range of carefully selected cases, applying a mix of methods to produce a comprehensive account of the effects that surveillance can have on public discourse, perceived security and citizens' fears. IRISS will analyse citizens' interpretations with regard to the effects they can have on different policies in the fight against crime and terrorism.

This empirical research will inform an analysis designed to explore options for increasing social, economic and institutional resilience. IRISS will produce a comprehensive account of resilience options, focussing on strengthening democratic processes and public discourse about appropriate reactions towards threats against open democratic societies.

Stakeholder engagement is key to the success of IRISS and the consortium will involve stakeholders in expert workshops, an international advisory board as well as direct contacts.

Project Objectives: The IRISS project has the following main objectives:

To investigate the emergence, development and deployment of surveillance technologies, their impact on basic rights and their social and economic costs.

To design a theoretical framework of understanding which captures core dimensions of the relationship between surveillance and democracy and which can be utilised to explore these relations empirically.

To understand and reconstruct citizens' views and understanding of surveillance and their options to exercise their democratic rights in surveillance societies.

To identify and analyse the options for enhancing social, economic and institutional resilience in European societies.

Profile of Slovak Participant/ -s: The Department of Political Science at the Faculty of Philosophy at Comenius University is the oldest and best Political Science Department in Slovakia, with strong international links and competitive research and publication record. The department offers fully accredited tuition at B.A., M.A. and Ph.D. levels of studies. In addition to the study of politics in Slovakia and other European countries, members of department possess expertise in European comparative politics, European integration and international relations as well as democracy, human rights, public policy and political economy. Its faculty members have considerable experience with participating in the Fifth and Sixth Framework Programmes of the European Commission.

SK Participant Project Cost: EUR 87 680

SK Participant EC Financial Contribution: EUR 63 900

Project Outcomes planned/real: Project's main task is the investigation of societal effects of different surveillance practices from a multi-disciplinary social science and legal perspective. Thus one of its outcomes is a set of case studies that analyses the impact of surveillance on the everyday lives of citizens in different countries. IRISS aims to produce a better understanding of how surveillance affects different types of societies and how different groups react to surveillance. Moreover, it will produce a comprehensive account of resilience options, focusing on strengthening democratic processes and public discourse about appropriate reactions towards threats against open democratic societies that will be shared with stakeholders. To spread projects findings and recommendations the consortium will involve stakeholders in expert workshops and other dissemination activities. Outcomes of the project are available on the project website (www.irissproject.eu).

Slovak Participant's Role in Project: Main tasks of Political Science Department was to conduct case study on surveillance in Slovakia under Working package 1 and on exercising democratic rights under surveillance regimes under Working package 5. Research team also collaborated on the methodology and the research conducted in other working packages. In the last phase of the project, research team will contribute to the dissemination activities.

LIPSE

Project ID: 320090

Project Title: Learning from Innovation in Public Sector Environments

Project website: <http://www.lipse.org/>

Project Start Date: 2013-02-01

Project End Date: 2016-07-31

Project Total Cost: EUR 3 168 998.4

Project EC Financial Contribution: EUR 2 474 535

Slovak participant Name: UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, Matej Bel University in Banska Bystrica

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Partners of the Consortium:

THE UNIVERSITY OF EDINBURGH – UNITED KINGDOM

ECOLE NATIONALE D'ADMINISTRATION - FRANCE

KU LEUVEN - BELGIUM

ERASMUS UNIVERSITEIT ROTTERDAM - NETHERLANDS

STICHTING KATHOLIEKE UNIVERSITEIT - RADBOUD UNIVERSITEIT NIJMEGEN - NETHERLANDS

UNIVERSITA COMMERCIALE LUIGI BOCCIN - ITALY

FUNDACION ESADE - SPAIN

HERTIE SCHOOL OF GOVERNANCE GGMBH - GERMANY

ROSKILDE UNIVERSITET - DENMARK

NATIONAL SCHOOL OF POLITICAL STUDIES AND PUBLIC ADMINISTRATION- ROMANIA

TALLINN UNIVERSITY OF TECHNOLOGY – ESTONIA

UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, MATEJ BEL UNIVERSITY IN BANSKA BYSTRICA - SLOVAKIA

Project Description: The LIPSE project (Learning from Innovation in Public Sector Environments) identifies drivers and barriers to successful social innovation in the public sector. Through studying social innovation and co-creation practices and processes in 11 European countries and 7 policy sectors, LIPSE will create and disseminate essential knowledge about public innovation. Seven empirical cross-national work packages will collect new insights on five building blocks of social innovation in the public sector: 1. Innovation environments 2. Innovation inputs 3. Innovation tools and processes 4. Innovation outcomes, diffusion and upscaling 5. Feedback loops in innovative systems.



LIPSE

Project Objectives: LIPSE will create and disseminate essential knowledge about public innovation. Five building blocks of social innovation in the public sector will be examined:

Innovation environments

Innovation inputs

Innovation tools and processes

Innovation outcomes

Feedback loops and innovative systems

The project will firstly map institutional environments to study the role of social capital, innovation champions and leadership, using survey research and social network analysis. The project will then look at citizens' inputs into public innovation processes through participation, complaints and co-creation. This will be achieved by a) analysing the secondary administrative datasets from ombudsmen and national audit offices b) case studies in social and welfare services and urban and rural regeneration and c) large scale survey research. It will then examine the use of risk management in innovation processes. A work package on innovation diffusion and adoption will assess what factors contribute to the successful upscaling of ICT-driven social innovations, with a focus on teleworking (as a way of new working) and e-procurement. Finally, the project will develop a comprehensive set of public sector social innovation indicators and explore future trends in social innovation through scenario-mapping with academic and practitioner experts. The dissemination of knowledge will be widespread, using websites, articles, books, road shows and conferences across Europe.

Profile of Slovak Participant/ -s: Matej Bel University, as a part of the European educational and research space, contributes by providing high quality higher education, further lifelong education to the needs of the practice and development of new scientific knowledge and creative arts. While researching the development of a wise, moral, authentic and socially responsible personality, it is building a knowledge society. Matej Bel University (MBU), established in 1992, is a public University located in the centre of Slovakia in the city of Banská Bystrica. Currently it has six faculties. MBU has approximately 600 employees which are qualified for research activities (i.e. PhD degree or higher) and approximately 10 500 students. Matej Bel University has the highest status of academic and research institutions under the Slovak legislation – 'the University status'. Cooperating with more than 30 Universities world-wide, implements the EU objectives in development of the international relations in accordance with the Declaration of Bologna. In June 2013, UMB successfully passed certification audit of the quality system as required by international standard ISO 9001:2008.

SK Participant Project Cost: EUR 148 640

SK Participant EC Financial Contribution: EUR 112 280



Project Outcomes planned/real: The project firstly maps institutional environments to study the role of social capital, innovation champions and leadership, using survey research and social network analysis. The project will then look at citizens' inputs into public innovation processes through participation, complaints and co-creation. This will be achieved by a) analysing the secondary administrative datasets from ombudsmen and national audit offices b) case studies in social and welfare services and urban and rural regeneration and c) large scale survey research. It will then examine the use of risk management in innovation processes. A work package on innovation diffusion and adoption will assess what factors contribute to the successful upscaling of ICT-driven social innovations, with a focus on teleworking (as a new way of working) and e-procurement. Finally, the project will develop a comprehensive set of public sector social innovation indicators and explore future trends in social innovation through scenario-mapping with academics and implementation experts. The dissemination of knowledge will be widespread, using websites, articles, books, road shows and conferences across Europe.

Slovak Participant's Role in Project: The LIPSE teams are organized in seven work packages: 1. The innovation capacity of public sector environments, 2. Co-creation and citizen involvement in social innovation, 3. Mapping and analysing the recommendations of ombudsmen, audit offices and others, 4. Risk-definition and risk governance in social innovation processes, 5. Adoption, diffusion and up-scaling of ICT driven innovations, 6. Public sector innovation indicators, and 7. Future trends and scenarios. Slovak researchers participate on WP 2,3,4,5 and 7.

LLIGHT 'IN'EUROPE

Project ID: 290683

Project Title: Lifelong Learning, Innovation, Growth and Human capital Tracks in Europe

Project website: <http://www.llightineurope.com>

Project Start Date: 2012-01-01

Project End Date: 2015-09-30

Project Total Cost: EUR 3 589 886.2

Project EC Financial Contribution: EUR 2 694 856.25

Slovak participant Name: EKONOMICKA UNIVERZITA V BRATISLAVE, University of Economics in Bratislava

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Partners of the Consortium:

ZEPPELIN UNIVERSITAET GEMEINNETZIGE GMBH - GERMANY

RUPRECHT-KARLS-UNIVERSITAET HEIDELBERG - GERMANY

THE UNIVERSITY OF NOTTINGHAM - UNITED KINGDOM

UNIVERSITE DU LUXEMBOURG - LUXEMBOURG (GRAND-DUCHÉ)

IFO INSTITUT LEIBNIZ INSTITUT FÜR WIRTSCHAFTSFORSCHUNG AN DER UNIVERSITÄT MÜNCHEN EV - GERMANY

WAGENINGEN UNIVERSITY - NETHERLANDS

CENTRAL UNIVERSITY OF FINANCE AND ECONOMICS - CHINA

INNOVATION & GROWTH ACADEMY BV - NETHERLANDS

AARHUS UNIVERSITET - DENMARK

Project Description: Among all Europeans between 24 and 65 years old who had a tertiary educational degree in 2010, 82.8% were working. In the same age group, 68.3% who completed secondary schooling were working. Only 46% of those who did not complete secondary schooling were working. It is apparent that if Europe wants to work, higher education is the necessary foundation for being competitive in the labour market. Since this is not only true for generations of future workers currently in school, but equally so for those who are today in their 30s, 40s and 50s, Lifelong Learning must be essential to continued employability.

Project Objectives: The cumulative investment necessary to generate higher education degrees alone for adults over the next two decades across Europe, may be 3.5 trillion Euros or about 1.4% of European GDP per year. Even higher investments are required in non-formal and informal Lifelong Learning. To help guide this investment, this research project will find answers to the following urgent questions:

1. How do successful enterprises actively employ Lifelong Learning for their competitive advantage?
2. Which public policy environments facilitate Lifelong Learning for such enterprises and entrepreneurs?
3. How does Lifelong Learning interact with and promote innovativeness on the enterprise level?
4. What skills do European adults actually possess, and to what extent?
5. What are the actual learning mechanisms in adult life that lead to these skills?
6. What are the causal effects of these skills on growth, competitiveness and social cohesion?

The research consortium includes nine Universities and Research Institutes from four academic disciplines: Macro-econometrics, Innovation dynamics, Educational systems and Psychometrics to establish empirically proven answers. All outputs of the project (models, reports and tools) are designed to guide, support and facilitate best practice and strategy among public policy officials, enterprise strategists, individual citizens and fellow scientists.

Profile of Slovak Participant/ -s: The University of Economics in Bratislava (UEBA), established in 1940, is historically the first Higher Education Institution focused on Economics, Business and Management studies in Slovakia. The UEBA is a public Higher Education Institution, considered nowadays as one of the most important educational and scientific-research institutions in the Slovak Republic. It provides higher education in Bachelor's, Master's and Doctoral programmes for full-time and part-time students. In terms of student numbers the UEBA's share of the Slovak Higher Education market is significant, and it maintains its leading position in the provision of Economics, Business and Management degree programmes. On the basis of the comprehensive accreditation of Higher Education Institutions in the Slovak Republic, (2008 - 2009), the University was classified by the Slovak Accreditation Commission as a "university type higher education institution" which is the highest category of higher education institutions in Slovakia. The University has achieved an excellent reputation as a result of the high employability of its graduates. The UEBA has established a wide and mutually beneficial network with various institutions from both private and public sectors in Slovakia and abroad. Numbers of University graduates hold leading positions in the Slovak economy and society.

SK Participant Project Cost: EUR 261 952

SK Participant EC Financial Contribution: EUR 200 364

Project Outcomes planned/real: Obj 1. How do successful enterprises actively employ Lifelong Learning for their competitive advantage? Obj 2. Which public policy environments facilitate Lifelong Learning for such enterprises and entrepreneurs? Obj 3. How does Lifelong Learning interact with and promote innovativeness on the enterprise level? Obj 4. What skills do European adults actually possess, and to what extent? Obj 5. What are the actual learning mechanisms in adult life that lead to these skills? Obj 6. What are the causal effects of these skills on growth, competitiveness and social cohesion?

Slovak Participant's Role in Project: Economics University in Bratislava is a partner in the research consortium consisting of 9 partners. UEBA covers research topics for Slovakia, Czech Republic and Poland.

MEDEA

Project ID: 225670

Project Title: Models and their Effects on Development paths: an Ethnographic and comparative Approach to knowledge transmission and livelihood strategies

Project website: <http://www.medeasteelproject.org/>

Project Start Date: 2009-07-01

Project End Date: 2012-06-30

Project Total Cost: EUR 1 426 692

Project EC Financial Contribution: EUR 1 100 322

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

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Contact person email/ phone: Dr. Juraj Buzalka, buzalka@fses.uniba.sk, +421 02 20669 800

Partners of the Consortium:

GOLDSMITHS' COLLEGE - UNITED KINGDOM

UNIVERSITAT DE BARCELONA - SPAIN

ALMA MATER STUDIORUM-UNIVERSITA DI BOLOGNA - ITALY

INSTITUTO DE DESARROLLO ECONOMICO Y SOCIAL - ARGENTINA

FUNDAÇÃO UNIVERSIDADE DE BRASÍLIA – BRAZIL

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-SLOVAKIA

Project Description: The project investigated the impact of development paths on the livelihoods and life projects of citizens. Starting from the premise that the analysis of (dominant or alternative) development paths must be situated within the complexities of historically unfolding links and relationships, we should explore how they are 'practiced' in specific environments. Central questions addressed:

- How development models interacted with specific socio-economic contexts

- The effects of these interactions on transmissions and innovation of knowledge/skills

- How specific development paths affected livelihood strategies.

An interdisciplinary approach combined qualitative research and comparative methodologies with modelling to explore the dynamic effects of development models as they were implemented in specific contexts, at micro and macro levels. We hypothesised that:

- There is a lack of fit between the formal design of development models and their concrete applications.

- The transmission of knowledge/skills is central to effective development.

- Knowledge/skills (both tacit and explicit) are transmitted through formal and informal mechanisms, for example between gender and generations in families and neighbourhoods.

- Political and economic disruptions constitute situations of crisis in this transmission but at the same time afford opportunities for innovation.

Project Objectives: Focusing on connections between skills, work and unemployment in relation to heavy industry, the research identified critical points in the shifts in demand for knowledge across generations, regions and economic spheres. An ethnographic approach enabled a detailed account of social networks (encompassing those of solidarity and support) within and beyond work places, including strategic friendship, kinship and neighbourhood relations. The project thus contributed to the comparative analysis of development models, and generated recommendations for more complex and context-sensitive approaches.

Profile of Slovak Participant/ -s: Faculty of Social and Economic Sciences, Comenius University in Bratislava, is the leading research academic institution in Social Sciences in Slovakia. It has long been considered the top faculty by independent rankings among the Social Sciences faculties in the country. The Slovak team was led by Juraj Buzalka, the associate professor of Social Anthropology, who conducts research of social and political movements. He is the author of *Nation and Religion: The Politics of Commemoration in South-east Poland* (Münster: Lit 2007). Currently he is preparing his second monograph on workers and tolerance in Eastern Europe, based on the empirical data gathered during the project. Among his recent works are 'Tasting Wine in Slovakia: Post-socialist Elite Consumption of Cultural Particularities' (in *Wine and Culture: Vineyard to Glass*. Rachel E. Black and Robert C. Ulin eds, Bloomsbury Publishing 2013) and a book of essays *Slovenská ideológia a kríza. Eseje z antropológie politiky* (Slovak Ideology and Crisis. Essays in Anthropology of Politics, Bratislava: Kalligram 2012).

SK Participant Project Cost: EUR 200 400

SK Participant EC Financial Contribution: EUR 151 800

Project Outcomes planned/real: The outcome was the identification of key national and transnational trends and development initiatives and their effects. These were explored through the comparison of four case studies, considering the emergence and transformations of institutional patterns, development approaches and policies. Steel industry was the major focus of research. The empirical research in the four countries (Slovakia included) was contextualized within the analysis of global flows of development models. The comparative analysis of institutional and social mechanisms for the transmission of resources, particularly skills and knowledge, and the compilation of data sets on firms, households and work experiences enabled the research. Among the real outcomes were the scientific articles, two collective volumes (to be published by Routledge), a special issue of the journal *Focaal* and several individual articles that are due to be published.

Slovak Participant's Role in Project: The major aims of the research supervised by the Slovak participant were to record views of representatives of strategic groups on development and transformations and discuss state/civil society relations as they developed through historical processes. Special attention was paid to workers with regard to the evolution of the steel industry and the changes that had taken place in the sector. We approached the major tasks – to describe and systematize what kind of actually existing civil society/state relations work in the cases concerned -- at two levels. At one level, we focused on the perspective of the subjects we interviewed and at a second level we approached 'civil society' from an analytical perspective.

MEDIADEM

Project ID: 244365

Project Title: European Media Policies Revisited: Valuing and Reclaiming Free and Independent Media in Contemporary Democratic Systems

Project website: <http://www.mediadem.eliamep.gr/>

Project Start Date: 2010-04-01

Project End Date: 2013-03-31

Project Total Cost: EUR 3 314 878

Project EC Financial Contribution: EUR 2 658 462

Slovak participant Name: SKOLA KOMUNIKACIE A MEDII, N.O.

Slovak participant address: HANDLOVSKÁ 45, 851 01 BRATISLAVA

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Partners of the Consortium:

ELLINIKO IDRYMA EVROPAIKIS KAI EXOTERIKIS POLITIKIS (HELLENIC FOUNDATION FOR EUROPEAN AND FOREIGN POLICY) - GREECE

UNIVERSITE LIBRE DE BRUXELLES - BELGIUM

UNIVERSITAET BIELEFELD - GERMANY

THE UNIVERSITY OF EDINBURGH - UNITED KINGDOM

JYVASKYLAN YLIOPISTO - SUOMI/FINLAND

INSTITUT ZA MEDUNARODNE ODNOSI - CROATIA

UNIVERSIDAD DE CASTILLA - LA MANCHA - SPAIN

KOBENHAVNS UNIVERSITET - DENMARK

TURKISH ECONOMIC AND SOCIAL STUDIES FOUNDATION - TURKEY

TARTU ULIKOOL - ESTONIA

CENTRE FOR LIBERAL STRATEGIES - BULGARIA

EUROPEAN UNIVERSITY INSTITUTE - ITALY

HERTIE SCHOOL OF GOVERNANCE GGMBH - GERMANY

SKOLA KOMUNIKACIE A MEDII, N.O. - SLOVAKIA

Project Description: Free and independent media are vital for the workings of democratic systems. Media structures which are free of interference from government, business or other social groups, and in which access of diverse views and opinions is effectively guaranteed, support democratic debate and sustain citizens active involvement in political and civic life. Given the strong interconnection between politics, business and the media, the creation and safeguarding of an environment supportive of media freedom and independence remain everywhere in Europe a continuous and open-ended process. In view of the important role the media play in providing information about the economy and political affairs, political and economic actors, but also socio-cultural elites regularly seek to exert an influence on domestic media policy-making.

Project Objectives: MEDIADEM sought to understand and explain the factors that promote (or conversely hinder) the development of policies for free and independent media. The project combined a country-based study in Belgium, Bulgaria, Croatia, Denmark, Estonia, Finland, Germany, Greece, Italy, Romania, Slovakia, Spain, Turkey and the UK with a comparative analysis across media sectors and types of media service. The project investigated the complex array of policy approaches and regulatory and self-regulatory practices established to safeguard media freedom and independence. In order to verify whether regulatory measures actually advanced a more democratic political order through the diversification of media outlets, sources and content, the project placed them in their proper socio-political, economic and cultural context, and examined how state and non-state perceptions about the role the media should play in contemporary society, which is influenced by the implementation of the norms enacted. External pressures stemming from the action of regional organisations, such as the Council of Europe and the EU, were investigated in detail.



Profile of Slovak Participant/ -s: School of Communication and Media, n.o., research organization

SK Participant Project Cost: EUR 150 160

SK Participant EC Financial Contribution: EUR 118 600

Project Outcomes planned/real: policies and regulatory practices in a selected set of European

countries, the European Union and the Council of Europe.

Slovak Participant's Role in Project: participant

MYPLACE

Project ID: 266831

Project Title: Memory, Youth, Political Legacy And Civic Engagement

Project website: <http://www.fp7-myplace.eu/>

Project Start Date: 2011-06-01

Project End Date: 2015-05-31

Project Total Cost: EUR 9 968 172.4

Project EC Financial Contribution: EUR 7 994 449

Slovak participant Name: UNIVERZITA SV CYRILA A METODA V TRNAVE, The University of Ss. Cyril and Methodius

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THE UNIVERSITY OF WARWICK - UNITED KINGDOM

THE MANCHESTER METROPOLITAN UNIVERSITY - UNITED KINGDOM

UNIVERSITAT POMPEU FABRA - SPAIN

DEBRECENI EGYETEM - HUNGARY

CENTRO DE INVESTIGACAO E ESTUDOS DE SOCIOLOGIA CRL - PORTUGAL

DAUGAVPILS UNIVERSITATE - LATVIA

ITÄ-SUOMEN YLIOPISTO - SUOMI/FINLAND

TALLINN UNIVERSITY - ESTONIA

INSTITUT DRUSTVENIH ZNANOSTI IVO PILAR - CROATIA

STATE INSTITUTION OF ULYANOVSK STATE UNIVERSITY RESEARCH AND DEVELOPMENT CENTRE „REGION“ - RUSSIA

SYDDANSK UNIVERSITET - DENMARK

FRIEDRICH-SCHILLER-UNIVERSITAET JENA - GERMANY

EURASIA PARTNERSHIP FOUNDATION - GEORGIA - GEORGIA

PANTEION UNIVERSITY OF SOCIAL AND POLITICAL SCIENCES - GREECE

UNIVERSITAET BREMEN - GERMANY

UNIVERZITA SV CYRILA A METODA V TRNAVE, THE UNIVERSITY OF SS. CYRIL AND METHODIUS - SLOVAKIA

Project Description: MYPLACE is a project, which explores how young people's social participation is shaped by the shadows (past, present and future) of totalitarianism and populism in Europe

Conceptually, it goes beyond the comparison of discrete national 'political cultures' or reified classifications of political heritage ('postcommunist'/'liberal democratic'); it is premised rather on the pan-European nature of a range of radical and populist political and philosophical traditions and the cyclical rather than novel nature of the popularity they currently enjoy.

Empirically, MYPLACE employs a combination of survey, interview and ethnographic research instruments to provide new, pan-European data that not only measure levels of participation but capture the meanings young people attach

to it.

Analytically, through its specific focus on 'youth' and the historical and cultural contextualization of young people's social participation, MYPLACE replaces the routine, and often abstract, iteration of the reasons for young people's 'disengagement' from politics with an empirically rich mapping of young people's understandings of the civic and political space that they inhabit.

In policy terms, MYPLACE identifies the obstacles to, and facilitators of, young people's reclamation of the European political arena as 'my space'.

Project Objectives: the specific objectives of MYPLACE are:

To contextualise young people's civic engagement in regional, national and European historical contexts

To map and understand the process of the (re-)production, transmission and (re)interpretation of local, national and pan-European political heritage and experience

To measure attitudes to, and participation, in political organisations, social movements and civic action programmes among young people in Europe and to understand how these attitudes and engagements are differentiated along lines of gender, ethnicity, class and region

To measure views on legitimate forms of political representation and action within the context of different democratic heritages

To map the range of youth activism across Europe and the ways in which young activists are networked inter-regionally and trans-nationally

To understand the appeal of radical, extreme or populist movements to young people and its relationship to regional, national and European political heritage.

To inform and assist policy and practitioner agencies to chart and evaluate the political responses to populism in the youth related policies of political parties and within young people's own activism

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 462 105.6

SK Participant EC Financial Contribution: EUR 393 453

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MYWEB

Project ID: 613368

Project Title: Measuring Youth Well-Being

Project website: <http://www.well-beingmeasure.com/>

Project Start Date: 2014-03-03

Project End Date: 2016-09-02

Project Total Cost: EUR 1 659 881.71

Project EC Financial Contribution: EUR 1 493 481.5

Slovak participant Name: UNIVERZITA SV CYRILA A METODA V TRNAVE, The University of Ss. Cyril and Methodius

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DEBRECENI EGYETEM - HUNGARY

THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE - UNITED KINGDOM

UNIVERSITY OF ESSEX - UNITED KINGDOM

UNIVERSITAT POMPEU FABRA - SPAIN

INSTITUTO UNIVERSITARIO DE LISBOA - PORTUGAL

PANTEION UNIVERSITY OF SOCIAL AND POLITICAL SCIENCES - GREECE

TALLINN UNIVERSITY - ESTONIA

DAUGAVPILS UNIVERSITATE - LATVIA

UNIVERSITAET BREMEN - GERMANY

INSTITUT DRUSTVENIH ZNANOSTI IVO PILAR - CROATIA

CRRC GEORGIA NON-ENTREPRENEURIAL (NON-COMMERCIAL) - GEORGIA

UNIVERZITA SV CYRILA A METODA V TRNAVE, THE UNIVERSITY OF SS. CYRIL AND METHODIUS - SLOVAKIA

Project Description: The MYWeB consortium contains researchers from a variety of disciplinary backgrounds and provides expertise in the areas of children and young people's well-being, childhood care; education; the environment in which a child grows up, childhood/youth work and leisure and participation. In addition, all teams are experienced in undertaking questionnaire survey research. Each Delivery Partner and Collaborator in the consortium is part of the FP7 funded MYPLACE project and have direct experience of working with one another on a large and complex project and the requirements to deliver to contract. The consortium contains a team with international repute in the methodology of longitudinal surveys ensuring that the project outcomes are informed by cutting edge scientists working in this field of methodology.

Project Objectives: MYWeB takes a balanced approach to assessing the feasibility of a European Longitudinal Study for Children and Young People (ELSCYP) through prioritising both scientific and policy imperatives. Striking the appropriate balance between science and policy is guaranteed through the use of an evaluation/appraisal methodology which ensures that the outcomes will be methodologically robust, technically feasible and will represent value for money. A full scale pilot study in six countries means original empirical data on field experiences will provide direct evidence of the feasibility of an ELSCYP. Engagement with a wide range of stakeholders including policy-makers at a European, Member State and regional level ensures that the project outcomes take into account the broadest range of policy makers. Questions about the "value added" that a longitudinal survey can offer over a cross-sectional survey will, therefore, be fully informed by policy agendas. Children and Young People are integrated into the project plan to contribute to the operationalisation of notions of well-being as well as in understanding the best modes of conducting an ELSCYP.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 29 831.6

SK Participant EC Financial Contribution: EUR 26 978

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

NEUJOBS

Project ID: 266833

Project Title: Employment 2025: How will multiple transitions affect the European labour market

Project website: <http://www.neujobs.eu/>

Project Start Date: 2011-02-01

Project End Date: 2015-01-31

Project Total Cost: EUR 10 106 058.8

Project EC Financial Contribution: EUR 7 902 328

SLOVAK PARTICIPANT 1

Slovak participant Name: EKONOMICKY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Economic Research, Slovak Academy of Sciences

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Contact person email/ phone: Mr. Viliam Palenik, Mr. Marek Radvansky, viliam.palenik@savba.sk, marek.radvansky@savba.sk, +421948525873

SLOVAK PARTICIPANT 2

Slovak participant Name: Slovak Governance Institute

Slovak participant address: GAJOVA 4, 811 09 BRATISLAVA

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UNIVERSITAET KLAGENFURT - AUSTRIA

VERENIGING VOOR CHRISTELIJK HOGER ONDERWIJS WETENSCHAPPELIJK ONDERZOEK EN PATIENTENZORG - NETHERLANDS

UNIVERSITAET MANNHEIM - GERMANY

DEUTSCHES INSTITUT FUER WIRTSCHAFTSFORSCHUNG E.V. - GERMANY

CASE - CENTRUM ANALIZ SPOLECZNO- EKONOMICZNYCH- FUNDACJA NAUKOWA - POLAND

LUISS LIBERA UNIVERSITA INTERNAZIONALE DEGLI STUDI SOCIALI GUIDO CARLI - ITALY

ECONOMIC AND SOCIAL RESEARCH INSTITUTE - ÉIRE/IRELAND

INSTITUT FUER DIE WISSENSCHAFTEN VOM MENSCHEN - AUSTRIA

EUROPRISM RESEARCH CENTRE (CYPRUS) LIMITED - CYPRUS

SEURECO SOCIETE EUROPEENNE D'ECONOMIE SARL - FRANCE

INSTITUT FUER HOEHERE STUDIEN UND WISSENSCHAFTLICHE FORSCHUNG - AUSTRIA

TRANSPORT & MOBILITY LEUVEN NV - BELGIUM

ROSKILDE UNIVERSITET - DENMARK

FORSCHUNGSINSTITUT ZUR ZUKUNFT DER ARBEIT GMBH - GERMANY

INSTITUT SYNDICAL EUROPEEN - BELGIUM

MASARYKOVA UNIVERZITA - CZECH REPUBLIC

UNIVERSITEIT LEIDEN - NETHERLANDS

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE - UNITED KINGDOM

THE UNIVERSITY OF BIRMINGHAM - UNITED KINGDOM

FUNDACJA NAUKOWA INSTYTUT BADAN STRUKTURALNYCH - POLAND

KOZEP-EUROPAI EGYETEM - HUNGARY

KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN - KNAW - NETHERLANDS

THE CONFERENCE BOARD INC - UNITED STATES

UNIVERSITY OF THE WEST OF SCOTLAND - UNITED KINGDOM

OBSERVATOIRE SOCIAL EUROPEEN ASBL - BELGIUM

TECHNISCHE UNIVERSITEIT DELFT - NETHERLANDS

EKONOMICKY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF ECONOMIC RESEARCH, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: As Europe evolves on several fronts, from border transformations to family lifestyles, the EU is looking at how the labour market will be in 2025. The study is yielding new conclusions and recommendations to improve the market over the next two decades.

Knowledge is replacing industry as the driver of the economy in Europe, which is also rapidly being shaped by social, ecological and territorial transformations. The implications for the job market in Europe are profound, prompting European policymakers to rethink economic models and labour markets. The EU-funded project 'Employment 2025: How will multiple transitions affect the European labour market' (NEUJOBS) is investigating possible futures in light of these developments.

Bringing together 29 partners from 14 European countries, the project is studying 4 different areas of change or 'transitions'. It is examining socio-ecological transition, which represents changes in social organisation and culture, as well as production and consumption in a more sustainable future.

Project Objectives: The objective of NEUJOBS is to imagine future, or rather various possible futures, under the conditions of the socio-ecological transition (and incorporating other key influences), map the implications for employment overall, but also in key sectors and relevant groups and integrate all of this together under a single intellectual framework. It will do so by combining EU-wide studies based on existing datasets with small-N comparative research dealing with one or more countries. Furthermore, the output will be a mix of quantitative and qualitative analysis, foresight activities and policy analysis.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Institute of Economic Research, Slovak Academy of Sciences. The project was led by Viliam Pálenik and Marek Radvanský, whose are the senior researchers at the Department of economic modelling and analyses. Main supporting researchers of IER SAS: Miroslav Stefanik, Ivan Lichner, Tomas Domonkos.

SK Participant Project Cost: EUR 149 652.8

SK Participant EC Financial Contribution: EUR 113 439

Project Outcomes planned/real: The objective of NEUJOBS is to imagine future, or rather various possible futures, under the conditions of the socioecological transition (and incorporating other key influences), map the implications for employment overall, but also in key sectors and relevant groups and integrate all of this together under a single intellectual framework. It will do so by combining EU-wide studies based on existing datasets with small-N comparative research dealing with one or more countries. Furthermore, the output will be a mix of quantitative and qualitative analysis, foresight activities and policy analysis.

Slovak Participant's Role in Project: Estimating possible effects of ageing on size and structure of demands of goods and services in European countries - Silver Economy. Analysing the impact of an ageing population on the health and long term care sector in Slovakia. Analysing future European labour market needs in the context of Silver Economy.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 429 235.2

SK Participant EC Financial Contribution: EUR 358 749

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

POCARIM

Project ID: 290770

Project Title: Mapping the population, careers, mobilities and impacts of advanced research degree graduates in the social sciences and humanities

Project website: <http://www.liv.ac.uk/law-and-social-justice/research/pocarim/>

Project Start Date: 2012-01-03

Project End Date: 2014-08-31

Project Total Cost: EUR 1 175 392.52

Project EC Financial Contribution: EUR 996 847

Slovak participant Name: UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, Matej Bel University in Banska Bystrica

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INTERNATIONAL ORGANIZATION FOR MIGRATION - SWITZERLAND

CENTRO DE ESTUDOS PARA A INTERVECAO SOCIAL - PORTUGAL

LOUGHBOROUGH UNIVERSITY - UNITED KINGDOM

PENZUGYKUTATO ZARTKORUEN MUKODO RESZVENYTARSASAG - HUNGARY

OXFORD RESEARCH AS - NORWAY

KOC UNIVERSITY - TURKEY

AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS - SPAIN

UNIVERSITE DE LAUSANNE - SWITZERLAND

UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, MATEJ BEL UNIVERSITY IN BANSKA BYSTRICA - SLOVAKIA

Project Description: This proposal was focused on increasing our understanding of the career paths and employment patterns and contribution of doctoral graduates in the social sciences and humanities. The study incorporated an integrated impact strategy commencing at project start-up through close engagement with the stake holder and user communities, and SSH researchers themselves. An active dissemination programme comprising text and web-based dissemination with 5 Regional Workshops and international quality level academic publication commitments.

The results of this research work provided an important and entirely new evidence base enabling us to respond to the three objectives outlined above and shape the future of social sciences and humanities at European and National level.

Project Objectives: The study focused on three Objectives:

Objective 1: Identification of the dimensions of the population and its core characteristics and assess trends in their employment

Objective 2: Identifying the diversity of post-doctoral career paths in the SSH field.

Objective 3: Assessment of the contribution that this diverse group of research-trained graduates made to Europe's knowledge based economy and society (their impact).

Profile of Slovak Participant/ -s: Univerzita Mateja Bela v Banskej Bystrici (Matej Bel University in Banská Bystrica, UMB) was established in 1992 as a public university. It consists of six faculties with almost 600 academic employees and approximately 10 500 students. The university has signed collaborative agreements with more than 30 universities world-wide. In 2013, UMB successfully passed certification audit of the quality system as required by international standard ISO 9001:2008. International research collaboration has been rapidly developing in recent years. Most of international (mainly FP) projects have been carried out by the Centre for Science and Research and its institutes. The Institute of Social and Cultural Studies of the Faculty of Arts (part of the Centre) has been participating in FP projects successfully since 2002. Research team of social scientists focus on several thematic areas: urban studies, diversity, identity, gender, gender and science, mobility and cultural heritage.

SK Participant Project Cost: EUR 93 540

SK Participant EC Financial Contribution: EUR 83 406.5

Project Outcomes planned/real: The POCARIM project (Mapping the Population, Careers, Mobilities and Impacts of Advanced Research Degree Graduates in the Social Sciences and Humanities) was designed to further the understanding of the career paths, employment patterns and contributions of doctoral graduates in the Humanities and Social Sciences in Europe. It was based on an international comparative study involving 13 European countries. The project focused on three linked objectives:

Objective 1: Identification of the dimensions of the population and its core characteristics and assess trends in their employment and mobility.

Objective 2: Identification of the diversity of post-doctoral career paths of SSH doctoral graduates.

Objective 3: Assessment of the contribution that this diverse group of research-trained graduates made to Europe's knowledge based economy and society (their 'impact').

Slovak Participant's Role in Project: The Institute of Social and Cultural Studies of UMB was involved in all work packages and was responsible for the Work Package No 2 (Policy Analysis), which included collecting reports on national and institutional policies and strategies on science and research careers from 13 countries, making a comparative analysis of these policies and writing a final report called Policy Analysis.

POINT

Project ID: 217207

Project Title: Policy Influence of indicators

Project website: <http://www.point-eufp7.info/>

Project Start Date: 2008-04-01

Project End Date: 2011-06-30

Project Total Cost: EUR 1 916 259.33

Project EC Financial Contribution: EUR 1 456 724

Slovak participant Name: USTAV KRAJINNEJ EKOLOGIE SLOVENSKEJ AKADEMIE VIED,
Institute of Landscape Ecology of The Slovak Academy of Sciences

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DANMARKS TEKNISKE UNIVERSITET - DENMARK

UNIVERSITA TA MALTA - MALTA

SUOMEN YMPARISTOKESKUS - SUOMI/FINLAND

UNIVERSITE LIBRE DE BRUXELLES - BELGIUM

THE BAYSWATER INSTITUTE - UNITED KINGDOM

UNIVERSITY OF SUSSEX - UNITED KINGDOM

THE UNIVERSITY OF READING - UNITED KINGDOM

USTAV KRAJINNEJ EKOLOGIE SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF LANDSCAPE
ECOLOGICAL OF THE SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The project overall aim was to help find better ways of using indicators in all aspects of policy, but with a thematic focus on the role of indicators in fostering and supporting change in areas of policy making towards Sustainable Development. The research area of indicators in the presumed service of sustainability provided a rich ground for addressing the actual use, influence and impacts of indicators, reflecting dynamic interactions between forces for policy continuation and versus policy change.

Project Objectives: The objectives of the project were to: Design a coherent framework of analysis and generate hypotheses on the use and influence of indicators, by pulling together the disparate strands of research and practical experience of indicator use and influence, focusing broadly on European policies. Special emphasis was placed on fostering change towards Sustainability Test, the analytical framework and the hypotheses on specific cases of sector integration and sustainability indicators, as well as composite indicators (indices) in order to identify the ways in which indicators influence policy, including the unintended types of influence and situations of non-use ; and Identify factors that condition the way in which indicators influence policies, including the process and the outcome of designing and producing indicators, the type of indicators, expectations of stakeholders involved, the role of the organisations preparing and disseminating the indicators, as well as general socio-cultural and political background

factors. Recommend ways to enhance the role of indicators in supporting policies.

Profile of Slovak Participant/ -s: The Institute of Landscape Ecology of the Slovak Academy of Sciences (ILE SAS) is an interdisciplinary scientific institution for basic and applied research in landscape ecology. At present, the main research tasks of the institute are: Evaluating the influence of anthropogenic factors on the landscape, Sustainable land use, Ecological networks, Preservation of biodiversity and geocodiversity, and ES. The methodology of landscape-ecological planning, LANDEP, which was included in Agenda 21 from the Rio Summit as the suggested methodology for an integrated approach to the management of natural resources (Chapter 10 in Agenda 21), was elaborated at the ILE SAS. The ILE SAS is Centre of Excellence for protection and utilisation of landscape and biodiversity. It has an important place within the frame of international cooperation. It takes part in many international projects, including projects in the FP5, FP6 and FP7. The Institute is also involved in education.

SK Participant Project Cost: EUR 118 669.6

SK Participant EC Financial Contribution: EUR 89 002.2

Project Outcomes planned/real: The overall aim of POINT was to help find better ways of using indicators in all aspects of policy. The specific objectives of the project were to:

- design a coherent framework of analysis and generate hypotheses on the use and influence of indicators, by pulling together the disparate strands of research and practical experience of indicator use and influence, focusing broadly on European policies, but with a special emphasis on fostering change towards sustainability.

- test the analytical framework and the hypotheses on specific cases of sector integration and sustainability indicators, as well as composite indicators (indices) in order to,

- identify the ways in which indicators influence policy, including the unintended types of influence and situations of "non-use",

- identify factors that condition the way in which indicators influence policies, including the process and the outcome of designing and producing indicators, the type of indicators, expectations of stakeholders involved, the role of the organisations preparing and disseminating the indicators, as well as general socio-cultural and political background factors;

- recommend ways to enhance the role of indicators in supporting policies.

Slovak Participant's Role in Project: Institute of Landscape Ecology of the Slovak Academy of Sciences, focused on the assessment of the use/non-use of indicators in the Slovak policy. In particular, we concentrated on the application of indicators in the agro-environment policy and in the area of sustainable development.

STYLE

Project ID: 613256

Project Title: Strategic Transitions for Youth Labour in Europe

Project website: <http://www.style-research.eu/>

Project Start Date: 2014-03-01

Project End Date: 2017-08-31

Project Total Cost: EUR 6 458 122

Project EC Financial Contribution: EUR 4 999 056

Slovak participant Name: INSTITUT PRE DOBRE SPRAVOVANU SPOLOCNOST, Slovak
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NATIONAL UNIVERSITY OF IRELAND, GALWAY - ÉIRE/IRELAND

UNIVERSITA DEGLI STUDI DI TRENTO - ITALY

UNIVERSITA DEGLI STUDI DI TORINO - ITALY

UNIVERSITA DEGLI STUDI DI SALERNO - ITALY

TARKI TARSADALOMKUTATASI INTEZET ZRT - HUNGARY

UNIWERSYTET EKONOMICZNY W KRAKOWIE - POLAND

CENTRE FOR EUROPEAN POLICY STUDIES - BELGIUM

STOCKHOLMS UNIVERSITET - SWEDEN

UNIVERSIDAD DE OVIEDO - SPAIN

STICHTING KATHOLIEKE UNIVERSITEIT BRABANT UNIVERSITEIT VAN TILBURG -
NETHERLANDS

NORSK INSTITUTT FOR FORSKNING OM OPPVEKST, VELFERD OG ALDRING - NORWAY

ECONOMIC AND SOCIAL RESEARCH INSTITUTE - ÉIRE/IRELAND

TARTU ULIKOOL - ESTONIA

METROPOLITNI UNIVERZITA PRAHA OPS - CZECH REPUBLIC

FONDATION EURACTIV POLITECH - BELGIUM

DEMOCRITUS UNIVERSITY OF THRACE - GREECE

INSTITUTE FOR EMPLOYMENT STUDIES - UNITED KINGDOM

FORSCHUNGSINSTITUT ZUR ZUKUNFT DERARBEIT GMBH - GERMANY

CHAMBRE DE COMMERCE ET D'INDUSTRIE DE GRENOBLE - FRANCE

KOC UNIVERSITY - TURKEY

COPENHAGEN BUSINESS SCHOOL - DENMARK

INSTITUT PRE DOBRE SPRAVOVANU SPOLOCNOST, SLOVAK GOVERNANCE INSTITUTE-
SLOVAKIA

Project Description: STYLE is a research project that aims to examine the obstacles and opportunities affecting youth employment in Europe. The aim of this project is to provide a comprehensive understanding of the causes of very high unemployment among young people and to assess the effectiveness of labour market policies

designed to mitigate this phenomenon. The central concept informing this project is based on a policy performance and learning approach to the problems of overcoming youth unemployment for different groups of young people.

Using a comparative framework, that is sensitive to the impact of historical and regional legacies, our analysis enables us to both identify where policies are working and why. It illuminates when and how labour market analysis informs policy formulation, implementation and evaluation.

This requires a multi-disciplinary and internationally comparative perspective. It provides a recent historical analysis accounting for factors prior to, and following on from the recent periods of economic crisis.

This involves an on-going process of including a wide range of EU stakeholders to inform the research and disseminate the results about what works under different institutional conditions.

Project Objectives:

- Achieve a critical mass of resources in collaboration with stakeholder communities

- Provide a critical evaluation of the performance of countries and regions

- Assess the prospects for policy transfer mechanisms (including those under the European Social Fund)

- To provide a critical review of the mismatch in supply and demand

- To examine the consequences of mismatch in terms of labour mobility and migration for young people within the EU

- To analyse the nature, rate and success of business start-ups and self-employment for young people

- To examine the cultural context of family organisation and the pathways to enhancing independence

- To map out the voices of vulnerable young people by identifying their different values and aspirations

- To analyse the nature and mechanisms of flexicurity regimes and how they contribute to overcoming youth unemployment

- To advance the knowledge base by publishing an 'International Handbook on Strategic Transitions for Youth Labour in Europe'

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 183 067.2

SK Participant EC Financial Contribution: EUR 139 620

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

WILCO

Project ID: 266929
 Project Title: Welfare Innovations at the Local level In favour of Cohesion
 Project website: <http://www.wilcoproject.eu/>
 Project Start Date: 2010-12-01
 Project End Date: 2014-01-31
 Project Total Cost: EUR 3 063 764.6
 Project EC Financial Contribution: EUR 2 471 642
 Slovak participant Name: Network of Institutes and Schools of Public Administration in Central and Eastern Europe
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 Partners of the Consortium:
 STICHTING KATHOLIEKE UNIVERSITEIT - NETHERLANDS
 POLITECNICO DI MILANO - ITALY
 CENTRE DE RECHERCHE ET D'INFORMATION SUR LA DEMOCRATIE ET L'AUTONOMIE - FRANCE
 ERSTA SKONDAL HOGSKOLA AB - SWEDEN
 EUROPEAN RESEARCH SERVICES GMBH - GERMANY
 UNIVERSITE DE GENEVE - SWITZERLAND
 UNIVERSITAT DE BARCELONA - SPAIN
 UNIWERSYTET WARSZAWSKI - POLAND
 PRAWNI FAKULTET SVEUČILIŠTA U ZAGREBU - CROATIA
 JUSTUS-LIEBIG-UNIVERSITAET GIESSEN - GERMANY
 UNIVERSITY OF KENT - UNITED KINGDOM
 WESTFAELISCHE WILHELMS-UNIVERSITAET MUENSTER - GERMANY
 EMES EUROPEAN RESEARCH NETWORK ASBL - BELGIUM
 NETWORK OF INSTITUTES AND SCHOOLS OF PUBLIC ADMINISTRATION IN CENTRAL AND EASTERN EUROPE- SLOVAKIA

Project Description: The effort to strengthen social cohesion and lower social inequalities is among Europe's main policy challenges. It means that local welfare systems are at the forefront of the struggle to address this challenge – and they are far from winning. While the statistics show some positive signs, the overall picture still shows sharp and sometimes rising inequalities, a loss of social cohesion and failing policies of integration.

But, contrary to what is sometimes thought, a lack of bottom-up innovation is not the issue in itself. European cities are teeming with new ideas, initiated by citizens, professionals and policymakers. The problem is, rather, that innovations taking place in the city are not effectively disseminated because they are not sufficiently understood. Many innovations are not picked up, because their relevance is not recognised or they fail after they have been introduced, because they were not suitable to the different conditions in another city in another country.

Project Objectives: In this project, researchers looked into this missing link between innovations at the local level and their successful transfer and implementation to other settings. They examined innovation in cities, not as a disconnected phenomenon, but as an element in a tradition of welfare that was a part of particular socio-economic models and the result of specific national and local cultures. By contextualising innovations in local welfare, it was more effective in understanding how they could work in other cities, for the benefit of other citizens.

In short, the aim of the project was to examine, through cross-national comparative research, how local welfare systems affected social inequalities and how they favoured social cohesion and sustainability. The results were used, through strong interaction with stakeholders and urban policy recommendations, to link immediately to the needs of practitioners.



Profile of Slovak Participant/ -s: NISPAcee - The Network of Institutes and Schools of Public Administration in Central and Eastern Europe - was established in 1994 as a non-governmental, non-profit, international membership organization. The current mission of NISPAcee is to promote and strengthen the emergence of effective and democratic governance and the modernisation of public administration and policy throughout the NISPAcee region (this includes New Member States of the EU, Western Balkan countries, eastern countries which include Russia, Ukraine, Belarus and Moldova, Caucasus countries and Central Asia countries). At present, the membership of the organization includes 166 Institutional members, Associate member institutions and Individual members. The organization is a network which represents huge recourses of knowledge, experience and professional contacts of member institutions and the database of more than 2 000 institutions and 6 000 individuals from the region.

SK Participant Project Cost: EUR 18 900

SK Participant EC Financial Contribution: EUR 18 900

Project Outcomes planned/real: Identification of innovative practices in European cities and the factors that made them emerge and spread; Setting them against the context of current social problems and urban policies; Recommendations on how to encourage local social innovation.

Slovak Participant's Role in Project: Dissemination.

WWWFOREUROPE

Project ID: 290647
 Project Title: Welfare, Wealth and Work for Europe
 Project website: <http://www.foreurope.eu/>
 Project Start Date: 2012-04-01
 Project End Date: 2016-03--31
 Project Total Cost: EUR 10 374 823.91
 Project EC Financial Contribution: EUR 7 999 858.25
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 UNIVERSITEIT UTRECHT - NETHERLANDS
 UNIVERSITA POLITECNICA DELLE MARCHE - ITALY
 UNIVERSITY OF DUNDEE - UNITED KINGDOM
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 IVORY TOWER AKTIEBOLAG - SWEDEN
 ÖSTERREICHISCHES INSTITUT FÜR RAUMPLANUNG - AUSTRIA
 UNIVERSITY OF SURREY - UNITED KINGDOM
 POLICY NETWORK AND COMMUNICATION LTD - UNITED KINGDOM
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 ECOLOGIC INSTITUT GEMEINNÜTZIGE GMBH - GERMANY
 MENDELOVA UNIVERZITA V BRNE - CZECH REPUBLIC
 HUMBOLDT-UNIVERSITÄT ZU BERLIN - GERMANY
 THE UNIVERSITY OF BIRMINGHAM - UNITED KINGDOM
 ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)* - GERMANY
 UNIVERSITAT AUTONOMA DE BARCELONA - SPAIN
 INSTITUTE FOR WORLD ECONOMICS OF THE HUNGARIAN ACADEMY OF SCIENCES - HUNGARY
 WIRTSCHAFTSUNIVERSITÄT WIEN - AUSTRIA
 UNIVERSITE DE NICE - SOPHIA ANTIPOLIS - FRANCE
 ZENTRUM FÜR EUROPÄISCHE WIRTSCHAFTSFORSCHUNG GMBH - GERMANY
 UNIVERSITEIT HASSELT - BELGIUM
 BUDAPEST SZAKPOLITIKAI ELEMZŐ INTÉZET KORLATOLT FELELŐSÉGŰ TÁRSASÁG - HUNGARY

DR.UNTIEDT & DR.ALECKE GBR GEFRA - GERMANY
 MAGYAR TUDOMÁNYOS AKADEMIA KOZGAZDASAG- ES REGIONALIS TUDOMANYI KUTATOKOZPONT - HUNGARY
 INSTITUT FÜR WELTWIRTSCHAFT - GERMANY
 PANNON EGYETEM – HUNGARY
 EKONOMICKA UNIVERZITA V BRATISLAVE, UNIVERSITY OF ECONOMICS IN BRATISLAVA - SLOVAKIA
 EKONOMICKY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF ECONOMIC RESEARCH OF THE SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The objective of this 4-year project is to provide the analytical basis for a socio-ecological transition in Europe: the change to a new growth path with smart, sustainable and inclusive growth as is envisaged in the EU 2020 strategy. In order to support the transition, we analyse the need, the feasibility and best practice for change, specifying the institutional changes needed at all policy levels to implement these options. The old and new challenges Europe is facing define the starting point: globalisation, new technologies and post-industrialisation, demographic change and ecology in the context of welfare systems that have come under stress due to high public deficits. The vision is that Europe will become a role model for a "high road growth path" which actively incorporates social and ecological goals, employment, gender and cultural aspects in an ambitious, forward looking way while continuing to be competitive in a globalised world.

Project Objectives: To achieve these objectives, the consortium will carry out and synthesise robust research in research areas covering the challenges to the welfare system, the biophysical dimension of socio-economic development, the identification of drivers towards socio-ecological transition, the role of governance and institutions on the European as well as the regional level. The consortium will benefit from ongoing dialogue with international experts in the form of expert panels and sounding boards, taking into account their views on the direction and feasibility for this new growth path.



SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: University of Economics in Bratislava provides higher education in the field of Economics and Business. The university cooperates with more than 150 universities from abroad through bilateral ERASMUS agreements, as well as within a framework of other agreements. Under the Erasmus European program and the CEEPUS Central European program international mobility is provided. The University has been involved in many international projects within European Union programs such as Leonardo da Vinci, Erasmus, the European Social Fund, FP6 and others. Faculty of National Economy has about 2,500 students and 142 faculty members. Research activities vary among departments but the main research areas are focused on macroeconomic and microeconomic policies, economic policy of the EU, industrial and regional policy, as well as on social and ecological aspects of economic development.

SK Participant Project Cost: EUR 32 560

SK Participant EC Financial Contribution: EUR 24 420

Project Outcomes planned/real: The objective of this project is to provide the analytical basis for a socio-ecological transition in Europe: the change to a new growth path with smart, sustainable and inclusive growth as is envisaged in the EU 2020 strategy. In order to support the transition, we analyse the need, the feasibility and best practice for change, specifying the institutional changes needed at all policy levels to implement these options. The old and new challenges Europe is facing define the starting point: globalisation, new technologies and post-industrialisation, demographic change and ecology in the context of welfare systems that have come under stress due to high public deficits. The vision is that Europe will become a role model for a “high road growth path” which actively incorporates social and ecological goals, employment, gender and cultural aspects in an ambitious, forward looking way while continuing to be competitive in a globalised world. To achieve these objectives, the consortium will carry out and synthesise robust research in research areas covering the challenges to the welfare system, the biophysical dimension of socio-economic development, the identification of drivers towards socio-ecological transition, the role of governance and institutions on the European as well as the regional level. The project is carried out by a consortium of 34 partners from universities and research institutes with international and interdisciplinary expertise.

Slovak Participant’s Role in Project: University of Economics in Bratislava leads the working package 206 on Well-being and Multi-criteria analysis. It provides key expertise in non-parametric production-frontier methods and undertakes production-frontier calculations. By use of both non-parametric, production-frontier method as well as discrete multicriteria method, we will evaluate to what extent European countries have delivered success as measured by well-being indicators from working package 202. The aim of this working package is to measure the success of European countries in delivering eco-efficiency and to measure success of European countries in delivering well-being.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Ivana Šikulová (Ph.D) is a research fellow at the Institute of Economic Research (IER) of the Slovak Academy of Sciences and head of Department of Macroeconomics and Knowledge Economy (since 2010). Her main field of research is European integration, in particular functioning of the Euro area and monetary integration of the new EU Member States, as well as economic development of Slovakia with respect to its integration efforts. She has participated in several projects and has held an expert mandate for the European Economic and Social Committee. Karol Frank (Ph.D) is a research fellow at the Institute of Economic Research of the Slovak Academy of Sciences. He is a member of Department of Macroeconomics and Knowledge Economy and his research is focused on Transition economies, EU Cohesion policy and Public finance (fiscal policy). He has held an expert mandate for the European Economic and Social Committee and has been working on several EU funded projects.

SK Participant Project Cost: EUR 41 289.6

SK Participant EC Financial Contribution: EUR 30 967.2

Project Outcomes planned/real: The project is in line with the Europe 2020 strategy for smart, sustainable and inclusive growth. The objective of WWWforEurope is to strengthen the analytical foundation of the Europe 2020 strategy. However, it goes far beyond that strategy, laying the analytical basis for a socio-ecological transition. WWWforEurope will address essential questions in areas of research that reflect vital fields for policy action to implement a socio-ecological transition: What are the challenges to the European welfare state? What is the impact of environmental sustainability on growth and employment? What is the role of industrial and innovation policy as drivers for change? What are necessary adjustments of governance structures at the European level? What is the role of the regions in the socio-ecological transition? These investigations are being undertaken within a coherent framework which from the outset considers linkages between research topics and highlights how the different policy instruments work together. Finally research results will be bound together to a coherent strategy for socio-ecological transition. With this robust research as a foundation the ultimate impact of the project will be to contribute to a change of the actual course of economic policy in the direction of a socio-ecological transition. To achieve this end and make an impact, WWWforEurope will engage in an ongoing dialogue with policy makers, stakeholders and representatives of civil society, supplying them with evidence based policy recommendations, while at the same time integrating their expertise and their views in the design of the transition strategy to be developed.

Slovak Participant’s Role in Project: IER participates in Area 1 of the Project which deals with challenges for the European Welfare State. IER contributes to the Work Package “Lessons from the Central and Eastern European Countries (CEECs): Transformation of Socio-economic Institutions” under the leadership of the Kiel Institute for the World Economy. Lessons from CEECs seem to be highly relevant for the transition of the EU towards the goals of the Europe 2020 strategy because of the most profound and ambitious transfer of institutions in recent history which took place in these countries at different speed. Slovakia and Hungary are of special relevance because they represent extreme cases (Slovakia: significant switch in transition path towards star performer, Hungary: muddling towards problem case). The objectives are: 1. to determine the importance of institutions and politics for explaining large-scale socio-economic transition drawing on the historical evidence provided by CEECs, 2. to demonstrate which type of capitalism is developing in Europe and especially in CEECs. The main task of IER has been to deliver “Interim report on Comparative Country Studies” in cooperation with the Institute of World Economics of the Hungarian Academy of Sciences. IER has provided a Country Study on Slovakia as a positive example of transformation, as well as comparative analysis on CEECs from the view of their transformation to market economies with special focus on welfare, innovation and macroeconomic stability.

1. Specific programme
COOPERATION

1.9 Space



COSMOS

Project ID: 218813
 Project Title: Coordination of Space NCPs as a Means to Optimise Services
 Project website: <http://www.fp7-space.eu/>
 Project Start Date: 2008-06-01
 Project End Date: 2012-03-31
 Project Total Cost: EUR 2 203 341.5
 Project EC Financial Contribution: EUR 1 999 996
 Slovak participant Name: AGENTURA NA PODPORU VYSKUMU A VYVOJA (APVV), Slovak Research and Development Agency (SRDA)
 Slovak participant address: Mytna 23, 811 07 BRATISLAVA
 Contact person email/ phone: Dr. Katarina Bohusova, bohusova@apvv.sk, +421257204540
Partners of the Consortium:
 DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV - GERMANY
 TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY
 INSTITUT JOZEF STEFAN - SLOVENIA
 RIGAS TEHNISKA UNIVERSITATE - LATVIA
 BETA TECHNOLOGY LTD - UNITED KINGDOM
 THE ICELANDIC CENTRE FOR RESEARCH - ICELAND
 VEREIN EURESEARCH - SWITZERLAND
 SIHTASUTUS ARCHIMEDES - ESTONIA
 MINISTERIE VAN ECONOMISCHE ZAKEN, LANDBOUW EN INNOVATIE - NETHERLANDS
 ENTERPRISE IRELAND - ÉIRE/IRELAND
 TECHNOLOGICKE CENTRUM AKADEMIE VED CESKE REPUBLIKY - CZECH REPUBLIC
 FUNDACAO PARA A CIENCIA E A TECNOLOGIA - PORTUGAL
 RESEARCH PROMOTION FOUNDATION - CYPRUS
 CENTRE NATIONAL D'ETUDES SPATIALES - CNES - FRANCE
 HRVATSKI INSTITUT ZA TEHNOLOGIJU - CROATIA
 MATIMOP, ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT - ISRAEL
 LUXINNOVATION GIE - LUXEMBOURG (GRAND-DUCHÉ)
 OESTERREICHISCHE FORSCHUNGSFOERDERUNGSGESELLSCHAFT MBH - AUSTRIA
 CENTRO PARA EL DESARROLLO TECNOLÓGICO INDUSTRIAL. - SPAIN
 SPACE AND SOLAR-TERRESTRIAL RESEARCH INSTITUTE - BULGARIA
 TEKES-TEKNOLOGIAN JA INNOVAATIOIDEN KEHITTAEMISKESKUS - SUOMI/FINLAND
 AGENCIA DE INOVACAO - INOVACAO EMPRESARIAL E TRANSFERENCIA DE TECNOLOGIA - PORTUGAL
 MOKSLO INOVACIJU IR TECHNOLOGIJU AGENTURA - LITHUANIA
 AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA - ITALY

GR AERO LTD - UNITED KINGDOM
 FORSKNINGS- OG INNOVATIONSSTYRELSEN - DENMARK
 VERKET FÖR INNOVATIONSSYSTEM - SWEDEN
 REMOTE SENSING APPLICATION CENTRE - RESAC - BULGARIA
 INSTYTUT PODSTAWOWYCH PROBLEMOW TECHNIKI POLSKIEJ AKADEMII NAUK - POLAND
 RYMDSTYRELSEN - SWEDEN
 ROMANIAN SPACE AGENCY - ROMANIA
 FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE
 OFFICE OF THE PRIME MINISTER - MALTA
 DIENST VOOR WETENSCHAPPELIJKE EN TECHNISCHE INFORMATIE- SERVICE D'INFORMATION SCIENTIFIQUE ET TECHNIQUE - BELGIUM
 AGENTURA NA PODPORU VYSKUMU A VYVOJA (APVV), SLOVAK RESEARCH AND DEVELOPMENT AGENCY (SRDA)- SLOVAKIA

Project Description: The objective of the project is to build a network of Space NCPs. The participating NCPs will identify and exchange good practice, elaborate and conduct training courses for the NCP staff, gather and provide up-to-date information on Space and neighbouring topics, improve project partner search and develop common concepts to raise awareness for Space in FP7 and the Space NCPs.

Project Objectives: Within the proposed project a strong network of Space NCPs shall be created to identify and exchange good practice, elaborate and conduct training courses for the NCP staff, gather and provide up-to-date information on Space and neighboring topics and develop common concepts to raise awareness for the FP7 Space Programme and the Space NCPs. Thus a more balanced high quality NCP service will be ensured for the benefit of new and experienced FP7 applicants.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 8 171.1

SK Participant EC Financial Contribution: EUR 7 285.89

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

PANGEO

Project ID: 262371
 Project Title: Enabling access to geological information in support of GMES
 Project website: <http://www.pangeoproject.eu/>
 Project Start Date: 2011-02-01
 Project End Date: 2014-01-31
 Project Total Cost: EUR 3 208 474.18
 Project EC Financial Contribution: EUR 2 404 925.23
 Slovak participant Name: STATNY GEOLOGICKY USTAV DIONYZA STURA, State Geological Institute of Dionýz Štúr
 Slovak participant address: MLYNSKÁ DOLINA 1, 817 04 BRATISLAVA
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 BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES - FRANCE
 LATVIJAS UNIVERSITATE - LATVIA
 MINISTRY OF ENVIRONMENT AND WATER - BULGARIA
 MAGYAR ALLAMI FOLDTANI INTEZET - HUNGARY
 MAGYAR FOLDTANI ES GEOFIZIKAI INTEZET - HUNGARY
 UNIVERSITY OF MINING AND GEOLOGY - BULGARIA
 LANDMARK INFORMATION GROUP - UNITED KINGDOM
 MINISTRY OF AGRICULTURE, NATURAL RESOURCES AND ENVIRONMENT OF CYPRUS - CYPRUS
 ABCONSULTING - UNITED KINGDOM
 DEPARTMENT OF COMMUNICATIONS, ENERGY AND NATURAL RESOURCES - ÉIRE/ IRELAND
 CESKA GEOLOGICKA SLUZBA - CZECH REPUBLIC
 FEDERATION EUROPEENNE DES GEOLOGUES - FRANCE
 GEOLOGIAN TUTKIMUSKESKUS - SUOMI/FINLAND
 INSTITUTUL GEOLOGIC AL ROMANIEI - ROMANIA
 BUNDESANSTALT FUER GEOWISSENSCHAFTEN UND ROHSTOFFE - GERMANY
 SYSTÈMES D'INFORMATION À RÉFÉRENCE SPATIALE (SIRS) SAS - FRANCE
 INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE - BELGIUM
 ETHNIKO KENTRO VIOSIMIS KAI AEIFOROU ANAPTYXIS - GREECE
 MALTA RESOURCES AUTHORITY - MALTA
 GAMMA REMOTE SENSING RESEARCH AND CONSULTING AG - SWITZERLAND
 NATURAL ENVIRONMENT RESEARCH COUNCIL - UNITED KINGDOM
 SVERIGES GEOLOGISKA UNDERSÖKNING - SWEDEN
 INSTITUTO GEOLÓGICO Y MINERO DE ESPAÑA - SPAIN
 LABORATORIO NACIONAL DE ENERGIA E GEOLOGIA I.P. - PORTUGAL
 ADMINISTRATION DES PONTS ET CHAUSSEES DIRECTION - LUXEMBOURG (GRAND-DUCHÉ)

GEOLOSKI ZAVOD SLOVENIJE - SLOVENIA
 EESTI GEOLOOGIAKESKUS OÜ - ESTONIA
 THE GEOLOGICAL SURVEY OF DENMARK AND GREENLAND - DENMARK
 GEOLOGISCHE BUNDESANSTALT - AUSTRIA
 ALTAMIRA INFORMATION SL - SPAIN
 TELE-RILEVAMENTO EUROPA - T.R.E. S.R.L. - ITALY
 EUROGEOSURVEYS – EGS - BELGIUM
 LIETUVOS GEOLOGIJOS TARNYBA PRIE APLINKOS MINISTERIJOS - LITHUANIA
 INSTITUTO GEOLOGIKON KAI METALLEYTIKON EREYNON - GREECE
 CONSORCI INSTITUT DE GEOMATICA - SPAIN
 ISTITUTO SUPERIORE PER LA PROTEZIONE E LA RICERCA AMBIENTALE - ITALY
 PANSTWOWY INSTYTUT GEOLOGICZNY - PANSTWOWY INSTYTUT BADAWCZY – POLAND
 STATNY GEOLOGICKY USTAV DIONYZA STURA, STATE GEOLOGICAL INSTITUTE OF DIONÝZ ŠTÚR - SLOVAKIA

Project Description: PanGeo provides information about the stability of the ground on which we live, work and play. Ground instability, or “geohazards,” affect us all. They can be dangerous and costly, yet information on these phenomena can be difficult if not impossible to obtain. The PanGeo service provides entirely free access to geohazard information for many of the largest cities in Europe.

Project Objectives: The objective of PanGeo is to enable free and open access to geohazard information in support of GMES. This will be achieved by the generation of a validated Geohazard Data Layer supported by a Geohazard Summary for 52 of the largest cities listed in the GMES Land Theme's Urban Atlas involving all 27 countries of the EU. Upon user enquiry, a PanGeo web-portal will automatically integrate the geohazard data with the Urban Atlas to highlight the polygons influenced. The datasets will be made discoverable, accessible and useable via a distributed web-map system as built and demonstrated by OneGeology Europe (www.onegeology-europe.eu).

Profile of Slovak Participant/ -s: State Geological Institute of Dionýz Štúr performs the tasks of the State Geological Survey of the Slovak Republic. The SGIDŠ activity is focused on the solutions of the geological research and exploration projects, creation and application of the information system in geology, registration, collection, evidence and publication of results of geological work carried out in the territory of the Slovak Republic. SGIDŠ provides independent expertise, lecturing, consulting and advisory activity and compiles input documents for the state administration. The State Geological Institute of Dionýz Štúr is a state contributory organization supervised by the Ministry of Environment of the Slovak Republic. The Institute was established in 1940. The SGIDS headquarters are located in Bratislava, while its regional centres are located in Spišská Nová Ves, Banská Bystrica and Košice. The State Geological Institute of Dionýz Štúr is a member of the international organization of geological surveys EuroGeoSurveys and GeoHealth.

SK Participant Project Cost: EUR 11 027.2

SK Participant EC Financial Contribution: EUR 8 409.6

Project Outcomes planned/real: PanGeo provides information describing the stability of the ground on which we live, work and play. Ground instability can be dangerous and costly, yet information on these phenomena has, to date, been difficult to obtain. PanGeo provides free access to ground instability geohazard information for many of Europe's largest cities. Users of the PanGeo service include local authorities, civil protection agencies, geological surveys, insurers and businesses providing environmental and land reporting services, and of course the general public. PanGeo provides a 'ground stability layer' which describes the spatial location and extent of geohazards for all the cities mapped. Each polygon within the ground stability layer is linked to a full interpretation made by the respective country's National Geological Survey. PanGeo data is created by combining the following information:

- satellite measurements of ground and building movement,
- geological information already held by National Geological Surveys.

Also included in the PanGeo product are the European Commission's Urban Atlas land use data; these provide insights into what types of urban land use are affected by geohazards described in the ground stability layer.

Slovak Participant's Role in Project: Preparing the Geohazard stability Layer based on PanGeo methodology manual, integration in GIS, interpretation and synthesis of primary data such as "geology, engineer geology, landslides, terrain movements, hydrogeology, contaminated sites, airborne orthophotos, digital terrain modelling, PSI satellite data and so on." The Institute is also involved in drafting the final document.

SAFER

Project ID: 218802

Project Title: Services and Applications For Emergency Response

Project website: <http://www.emergencyresponse.eu/>

Project Start Date: 2009-01-01

Project End Date: 2012-03-31

Project Total Cost: EUR 40 310 282

Project EC Financial Contribution: EUR 26 912 700

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

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Partners of the Consortium:

SPOT IMAGE (SI) SA - FRANCE

ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA - ITALY

CENTRO EUROPEO DI FORMAZIONE E RICERCA IN INGEGNERIA SISMICA - ITALY

NATIONAL OBSERVATORY OF ATHENS - GREECE

NORSK INSTITUTT FOR LUFTFORSKNING - NORWAY

ECOLE NORMALE SUPERIEURE - FRANCE

CRITICAL SOFTWARE SA - PORTUGAL

GAMMA REMOTE SENSING RESEARCH AND CONSULTING AG - SWITZERLAND

ELSAG DATAMAT S.P.A. - ITALY

TELESPAZIO SPA - ITALY

EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS - UNITED KINGDOM

DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV - GERMANY

INSTITUTE OF GEODYNAMICS OF THE ROMANIAN ACADEMY - ROMANIA

KEYOBS S.A. - BELGIUM

PARIS-LODRON-UNIVERSITÄT SALZBURG - AUSTRIA

UNIVERSITE DE STRASBOURG - FRANCE

MINISTERE DE L'INTERIEUR, DE L'OUTREMER ET DES COLLECTIVITES TERRITORIALES
DIRECTION DE LA DEFENSE ET DE LA SECURITE CIVILES - FRANCE

MAGELLIUM SAS - FRANCE

UNIVERSIDAD DE VALLADOLID - SPAIN

CONSIGLIO NAZIONALE DELLE RICERCHE - ITALY

METEO-FRANCE - FRANCE

GMV AEROSPACE AND DEFENCE SA UNIPERSONAL - SPAIN

ALTAMIRA INFORMATION SL - SPAIN

EUROSENSE BELFOTOP N.V. - BELGIUM

NATIONAL INSTITUTE OF METEOROLOGY AND HYDROLOGY OF THE BULGARIAN
ACADEMY OF SCIENCES - BULGARIA

GEOMER GMBH - GERMANY

UNITED NATIONS INSTITUTE FOR TRAINING AND RESEARCH - SWITZERLAND

INGENIERIA Y SERVICIOS AEROSPAZIALES S.A. - SPAIN

WORLD FOOD PROGRAMME - ITALY

JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFT MBH - AUSTRIA

GMVIS SKYSOFT SA - PORTUGAL

ARTELIA EAU ET ENVIRONNEMENT SAS - FRANCE

SOGREAH CONSULTANTS SAS - FRANCE

PLANETEK HELLAS - GREECE

EDISOFT-EMPRESA DE SERVICIOS E DESENVOLVIMENTO DE SOFTWARE SA - PORTUGAL

EUROPEAN UNION SATELLITE CENTRE - SPAIN

SC EUROSENSE ROMANIA SRL - ROMANIA

METRIA AB - SWEDEN

CENTRE NATIONAL D'ETUDES SPATIALES - CNES - FRANCE

- CZECH REPUBLIC

E-GEOS SPA - ITALY

ACCADEMIA EUROPEA PER LA RICERCA APPLICATA ED IL PERFEZIONAMENTO
PROFESSIONALE BOLZANO (ACCADEMIA EUROPEA BOLZANO) - ITALY

GEOID BVBA - BELGIUM

INDRA SISTEMAS S.A. - SPAIN

BUNDESAMT FÜR ERD- UND LUFTVERMESSUNG UND KATASTROPHENHILFE - GERMANY

PRESIDENZA DEL CONSIGLIO DEI MINISTRI - DIPARTIMENTO DELLA PROTEZIONE
CIVILE - ITALY

INFOTERRA LIMITED - UNITED KINGDOM

UNIVERSITA DEGLI STUDI DI FIRENZE - ITALIA

THE NATIONAL LAND SURVEY OF SWEDEN - SWEDEN

JRC - JOINT RESEARCH CENTRE - EUROPEAN COMMISSION - BELGIUM

TELE-RILEVAMENTO EUROPA - T.R.E. S.R.L. - ITALY

UNIVERSIDAD DE ALCALA - SPAIN

MAPACTION TRUST - UNITED KINGDOM

REMOTE SENSING APPLICATION CENTRE - RESAC - BULGARIA

ROMANIAN SPACE AGENCY - ROMANIA

INFOTERRA GMBH - GERMANY

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-
SLOVAKIA

Project Description: SAFER aims at implementing preoperational versions of the Emergency Response Core Service. SAFER will reinforce European capacity to respond to emergency situations: fires, floods, earthquakes, volcanic eruptions, landslides, humanitarian crisis.

Project Objectives: The main goal is the upgrade of the core service and the validation of its performance with 2 priorities:

- First priority is the short term improvement of response when crisis occurs, with the rapid mapping capacity after disastrous events, including the relevant preparatory services (reference maps). For validation purposes, the project will deliver as from 2008 services at full scale for real events or during specific exercises. The main performance criterion is the response time. RTD work addresses technical, operational and organisational issues. The content of this first action is consistent with the definition of the preparatory action recently decided.

- The second priority is the extension to core service components before and after the crisis. It targets the longer term service evolution, through the provision of thematic products, to be added in the portfolio of services. The main performance criterion is the added-value of products with risk-specific information. In SAFER, thematic products will cover mainly the meteorological and geophysical risks.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 49 812.8

SK Participant EC Financial Contribution: EUR 37 359.6

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

1. Specific programme
COOPERATION

1.10 Security



CARONTE

Project ID: 606967

Project Title: Creating an Agenda for Research ON Transportation sEcurity

Project website: <http://www.caronte-project.eu/>

Project Start Date: 2014-09-01

Project End Date: 2016-02-29

Project Total Cost: EUR 1 376 461.92

Project EC Financial Contribution: EUR 1 256 869.53

Slovak participant Name: VYSOKA SKOLA BEZPECNOSTNEHO MANAZERSTVA V KOSICIACH, The University of Security Management in Košice

Slovak participant Address: Kukučínova 17, 040 01 Košice

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Partners of the Consortium:

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AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH - AUSTRIA

IRKS RESEARCH GMBH - AUSTRIA

LOUGHBOROUGH UNIVERSITY - UNITED KINGDOM

SECEUR SPRL - BELGIUM

FUNDACION TECNALIA RESEARCH & INNOVATION - SPAIN

SZECHENYI ISTVAN UNIVERSITY - HUNGARY

INSTITUT FRANCAIS DES SCIENCES ET TECHNOLOGIES DES TRANSPORTS, DE L'AMENAGEMENT ET DES RESEAUX - FRANCE

INSTITUTO TECNOLOGICO DEL EMBALAJE, TRANSPORTE Y LOGISTICA - SPAIN

VYSOKA SKOLA BEZPECNOSTNEHO MANAZERSTVA V KOSICIACH NEZISKOVA ORGANIZACIA, THE UNIVERSITY OF SECURITY MANAGEMENT IN KOŠICE - SLOVAKIA

EURNEX E.V - GERMANY

Project Description: CARONTE will define a future research agenda for security in land transport that focuses on core gaps caused by emerging risks while avoiding any doubling-up of research elsewhere. CARONTE will provide answers to the question: what type of security-related projects should be planned in the future, considering the current state of the art and existing research projects?

Its research agenda will cover all threats, including cyber-crime, and security aspects across all modes of land transportation. At the same time it will respect the fundamental human rights and privacy of European citizens. The step-by-step method of CARONTE consortium will analyze the state of the art and emerging risks; identify gaps, analyses and assessments of potential solutions; and produce an overall research agenda for the future.

Project Objectives: Easy, efficient, safe and secure transportation is a core factor for European growth, collaboration and employment and therefore an item in the Europe 2020 strategy. Land transportation has two main challenges concerning security: avoiding interruptions of transport itself to assure the flow of freight and passengers to guarantee supply to the population and avoiding that transportation modes themselves become a means for attacks. The future research agenda for security in land transport which CARONTE will provide, focuses on core relevant gaps caused by emerging risks and will avoid doubling in research. For this CARONTE will provide answers to the question of what type of security related projects should be planned in the future, considering the current state of the art and existing research projects. It will cover all threats (including cyber-crime) and security aspects for all land transportation modes, respecting fundamental human rights and privacy. The step by step method includes analyzing the state of the art and emerging risks, identification of gaps, analyses and assessments of potential solutions and the research agenda.

The CARONTE consortium consists of universities and research institutes, providing experiences (research and consultancy) in transportation, logistics, infrastructure management and security. The partners are aware of practical needs and frameworks in land transport, and security as well as ethical, social and privacy aspects. As the partners come from neutral organizations, remaining neutrality concerning the project findings is guaranteed. Results which may mainly cover private interests are prohibited. This leads to a balanced and efficient research agenda. To ensure practical use and acceptance of the final recommendations, end-users (transportation companies, infrastructure managers, terminal operators, customs etc.) and the suppliers of security and transportation equipment will be integrated through a High Level Advisory Board.

Profile of Slovak Participant/ -s: The University of Security Management in Košice was officially established in 2006, but its foundations and focus of study were laid in 2001. Scientific and research projects are focused through the security management on all specific areas of human life and existence. The dominant feature of these projects is the protection of people and property oriented in the field of security of the environment, the economy, the transport and the transport infrastructure, the logistics, the information systems and the industry. Specific projects in specific areas involve criminalistics and criminology related mainly to crime prevention. In the transfer of scientific knowledge the university focused on their application within practice of many businesses, Government entities and state authorities, especially the Police of the Slovak Republic at almost all levels of management. In 2010 the VSBM started an academic and scientific co-operation with the State University of New York Institute of Technology in Utica, USA. (www.vsbm.sk)

SK Participant Project Cost: EUR 92 944.79

SK Participant EC Financial Contribution: EUR 82 875.78

Project Outcomes planned/real: The objective of the CARONTE project is to provide answers to the question of what type of security-related projects should be planned in the future to respond to current and future threats facing land transport. The project will cover existing and emerging threats (including conventional and cyber threats) and relevant work on security issues in all land transport modes (i.e. road, rail, air, maritime through ports and inland waterways). The project will especially increase the know-how transfer between stakeholders and foster interoperability between member states for security management on issues related to land transport. This is realised by frequent public and internal work-shops involving external experts and stakeholders to provide a wide dissemination of the project results.

Specifically, the following aspects will be elaborated:

- analysing and describing the status quo in transport modes, including infrastructure vehicles, processes and stakeholders, covering passenger and freight transport,
- identifying and assessing potential and future risks including cyber-attacks, ICT security and covering terrorism and crime among others,
- identifying potential and future gaps in security vs. security measures taken, regulations existing and planned plus current research and its foreseen results,
- assessing the gaps identified and highlighting the need for action,
- analysing social and ethical aspects of security measures (human rights, privacy vs. security)
- reviewing and analysing past and current research projects, their results and impact on future security frames (which gaps could already be closed),
- respecting effects and frames on and from the Charter of Fundamental Rights of the European Union.
- Evaluation of the status quo with respect to security and mobility aspects related to transport, coming from research and practice;
- Investigation of emerging risks in different land transport modes including road, rail, air, maritime (through ports) and inland waterways;
- Correct identification of the current gaps in security issues of land transport including intermodal solutions and interfaces between the modes and nodes to aviation and maritime transport;
- Proposal of solutions to fill the identified gaps in security-related issues of land transport;
- Development a Research Agenda to address security issues on land transportation (Elaboration of the Catalogue of most important solutions).



Creating an Agenda for Research On Transportation sEcurity

Slovak Participant's Role in Project: The University of Security Management in Košice (VSBM) as a specialist in security is involved in each of the seven WPs of the project. The role of VSBM is to participate mainly in the following:

CATO

Project ID: 261693

Project Title: CATO - CBRN crisis management: Architecture, Technologies and Operational Procedures

Project website: <http://www.cato-project.eu/>

Project Start Date: 2012-01-01

Project End Date: 2014-12-31

Project Total Cost: EUR 14 055 519

Project EC Financial Contribution: EUR 10 278 062

Slovak participant Name: VUJE A.S.

Slovak participant address: Okružná 5, 918 64 TRNAVA

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Partners of the Consortium:

NESS A.T. LTD - ISRAEL

FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY

JYVASKYLAN YLIOPISTO - SUOMI/FINLAND

BEREDSKABSSTYRELSEN - DENMARK

STATNI USTAV RADIACNI OCHRANY V.V.I. - CZECH REPUBLIC

TEKNOLOGIAN TUTKIMUSKESKUS VTT - SUOMI/FINLAND

UNIVERSITAETSKLINIKUM BONN - GERMANY

MINISTERE DE LA DEFENSE - FRANCE

PARIS-LODRON-UNIVERSITAET, T SALZBURG - AUSTRIA

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE

CESS GMBH CENTRE FOR EUROPEAN SECURITY STRATEGIES - GERMANY

HOME OFFICE - UNITED KINGDOM

CENTRE FOR SCIENCE, SOCIETY AND CITIZENSHIP - ITALY

ARTIC - FRANCE

MAGEN DAVID ADOM IN ISRAEL - ISRAEL

VECTORCOMMAND LTD - UNITED KINGDOM

INSTITUTT FOR FREDSFORSKNING STIFTELSE - NORWAY

HELMHOLTZ ZENTRUM MUENCHEN DEUTSCHES FORSCHUNGSZENTRUM FUER GESUNDHEIT UND UMWELT GMBH - GERMANY

DANMARKS TEKNISKE UNIVERSITET - DENMARK

STUDIECENTRUM VOOR KERNENERGIE - BELGIUM

PROLOG DEVELOPMENT CENTER A/S - DENMARK

ROBERT KOCH-INSTITUT - GERMANY

PDC-ARGOS APS - DENMARK

ERNST-MORITZ-ARNDT-UNIVERSITAET, T GREIFSWALD - GERMANY

INCONNECT VOF - NETHERLANDS

VUJE A.S. - SLOVAKIA

Project Description: The security expert community considers that the probability of terrorist attack using CBRN material is increasing. Recent history shows that terrorists no longer hesitate to launch attacks that can lead to hundreds or even thousands of civilian casualties and that they are increasingly attracted to the usage of unconventional weapons - biological, chemical and radiological. Project CATO brings together a consortium of 25 partners with broad practical experience in terror emergency management, existing CBRN information systems, medical response, a long track record in CBRN research as well as advanced research capabilities in the areas of human factors, ethics, data fusion and processing of fuzzy information.

Project Objectives: CATO proposes to develop a comprehensive Open Toolbox for dealing with CBRN crises due to terrorist attacks using non-conventional weapons or on facilities with CBRN material. CATO will:

- combine CBRN knowledge, planning & response know-how, DSS building blocks and dedicated models and algorithms
- enable the development of specific holistic CBRN-DSS,
- cover the entire CBRN disaster life cycle from preparedness through detection and response until recovery, supporting the multiple players from policy makers to field teams in the seamless transition from planning to monitoring to operational response to debriefing,
- assess and effectively address CBRN crisis situations,
- allow for the coexistence of public knowledge with classified information (there will be none in CATO), which the owner of a specific CATO DSS can add to his/her CATO Knowledge Base,
- address the multiple facets of CBRN preparedness and resilience such as medical response, societal and psychological issues, organisational and operational approaches as well as multiple-use equipment,
- update medical countermeasures in the fields of treatments and decontamination,
- use new information sources, today wasted in crises, e.g. verbal population input and CCTV images
- facilitate, by a dedicated simulation-centred CATO Laboratory (both virtual and hosted by some of the partners), the learning about CBRN attacks (e.g. new threats and responses) and the training of field teams.

Profile of Slovak Participant/ -s: VUJE, a.s. is an engineering company that performs design, supply, implementation, research and training activities, particularly in the field of nuclear and conventional power generation. VUJE, a.s. provides research and development background for safe, reliable and economical operation of nuclear facilities. It executes scientific management of nuclear power plant commissioning.

SK Participant Project Cost: EUR 97 065

SK Participant EC Financial Contribution: EUR 51 432.5

Project Outcomes planned/real: Bringing together stakeholders, technology providers and scientific experts, CATO will allow for a huge step in preparedness and resilience to Chemical, Biological, Radiological or Nuclear crises. CATO seeks to bring an innovative and comprehensive solution to the diversity of organisational set-ups and of legacy systems for emergency preparedness and management, including information technology, equipment and sensors.

Slovak Participant's Role in Project: Member of consortium, participating in the development of comprehensive Open Toolbox for dealing with CBRN crises due to terrorist attacks using non-conventional weapons or in facilities with CBRN material, concentrating on addressing the multiple facets of CBRN preparedness and resilience, such as medical response, societal and psychological issues, organisational and operational approaches as well as multiple-use equipment.

COBACORE

Project ID: 313308

Project Title: Community Based Comprehensive Recovery

Project website: <http://www.cobacore.eu/>

Project Start Date: 2013-04-01

Project End Date: 2016-03-31

Project Total Cost: EUR 4 378 908.7

Project EC Financial Contribution: EUR 3 497 636.07

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, University of Zilina

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Partners of the Consortium:

NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK – TNO - NETHERLANDS

UNIVERSITY OF ULSTER - UNITED KINGDOM

DEUTSCHES ROTES KREUZ EV - GERMANY

HET NEDERLANDSE RODE KRUIS - NETHERLANDS

FUTURE ANALYTICS CONSULTING LIMITED - ÉIRE/IRELAND

STICHTING KATHOLIEKE UNIVERSITEIT BRABANT UNIVERSITEIT VAN TILBURG - NETHERLANDS

INTEGRASYS SA - SPAIN

CAUSEWAY DATA COMMUNICATIONS LTD - UNITED KINGDOM

ZILINSKA UNIVERZITA V ZILINE, UNIVERSITY OF ZILINA - SLOVAKIA

Project Description Project Description: COBACORE seeks to close the collaboration gaps between stakeholders involved in post-crisis recovery. COBACORE also aims to improve the matching of needs with capacities, through building upon the community as an important source of information and capabilities. The COBACORE set of tools, which is designed to complement existing practices and tools, will support common needs assessment efforts, damage recovery needs, economic needs, health and social needs, and other critical humanitarian needs. The COBACORE assets will stimulate community-wide involvement in information gathering, sense-making, and needs assessment practices.

Project Objectives: The Community Based Comprehensive Recovery (COBACORE) project aims to support common needs assessment and recovery planning efforts in complex multi-sectorial, multi-stakeholder crisis environments by building upon the community as an important source of information and capabilities. COBACORE aims to help bridge the so-called collaboration gap: failure of collaboration through insufficient information sharing among partners, incompatible work practices and misaligned decision making processes. In the field of humanitarian needs assessment, this collaboration gap is ubiquitous and detrimental to the efficiency of many recent relief efforts. Closing this gap is the key to reduce the time required for needs assessment, and for better needs monitoring and planning.

The COBACORE suite of tools will support common needs assessment efforts, damage recovery needs, economic needs, health and social needs, and other critical humanitarian needs. The COBACORE assets will stimulate community-wide involvement in information gathering, sense-making, and needs assessment practices. The COBACORE will not replace but complement existing practices and tools, and will stimulate a community-based approach to needs assessment processes.

COBACORE is a set of interconnected modules and mechanisms that maintain three state models: the community model, the context model and the needs model. The information contained in these models is accessible for users through a collaborative workspace, customized to suit their needs and preferences. The models are built up post-crisis using data collected from the affected area, through collaborative manual completion and maintenance, and through use of existing information sources, and based upon generic frames that are developed in advance for different scenarios. Various supporting functions monitor and manage the models, and respond to demands from users.



Profile of Slovak Participant/ -s: The University of Zilina is a modern university providing technological, economic, management, and in a limited range arts and natural science education at under-graduate, graduate and post-graduate levels. At present, the University consists of seven faculties and seven institutes. Numerous international projects have been carried out successfully within the frame of various EU programs, such as Tempus, Leonardo, Socrates, the 5th, 6th, 7th Framework Program etc. There is a broad cooperation based on bilateral agreements. The University has introduced a sophisticated information system containing information about teachers, students, study programmes and plans, study results etc. The University and its faculties have renewed the ISO 9001 certification for professional quality management.

The studies at the Faculty of Special (Security) Engineering have a technological and managerial orientation. The faculty curricula encompass specific subjects for preparing the bachelors' and engineers' education for the needs of public administration, namely in the subjects of civil and social security. To fulfil the requirements of various companies of the national economy, and of social and other public institutions, the curricula are focused on the problems of technological, economic, property and capital security, on safety at work, protection of persons, fire protection and solving overall emergency and crisis situations. Furthermore, they are oriented on environmental problems including mitigation of natural disasters and catastrophes, and specifically on the problems of critical phenomena in the transport infrastructure, transport modes and logistics.

SK Participant Project Cost: EUR 126 880

SK Participant EC Financial Contribution: EUR 100 450

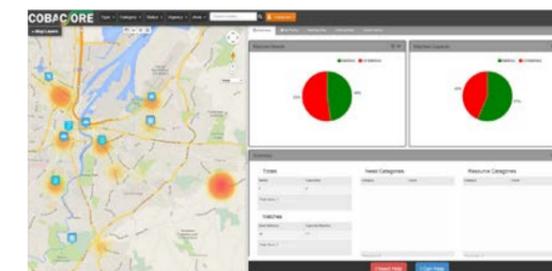
Project Outcomes Planned/Real: The COBACORE project aims to support common needs assessment and recovery planning efforts in complex multi-sectorial, multi-stakeholder crisis environments by building upon the community as an important source of information and capabilities.

COBACORE aims to help bridge the so-called collaboration gap: failure of collaboration through insufficient information sharing among partners, incompatible work practices and misaligned decision making processes. In the field of humanitarian needs assessment, this collaboration gap is ubiquitous and detrimental to the efficiency of many recent relief efforts. Closing this gap is the key to reduce the time required for needs assessment, and for better needs monitoring and planning.

COBACORE is a set of interconnected modules and mechanisms that maintain three state models: the community model, the context model and the needs model. The information contained in these models are accessible for users through a collaborative workspace, customized to suit their needs and preferences. The models are built up post-crisis using data collected from the affected area, through collaborative manual completion and maintenance, and through use of existing information sources, and based upon generic frames that are developed in advance for different scenarios. Various supporting functions monitor and manage the models, and respond to demands from users.

The COBACORE toolset will be developed in three development and evaluation phases with an increasing level of maturity. The last iteration will include a realistic experiment with the participation of civilians and professional groups on a cross-border humanitarian recovery scenario.

Slovak Participant's Role in Project: University of Zilina is mainly involved in the Domain Exploration (WP1) – 1) Examine current needs assessment practices, methods and tools in humanitarian recovery operations (domain analysis) with special attention to information sharing, analysis and assessment, community involvement and needs management processes; 2) Create a common frame of reference regarding use cases, stakeholders, terms, standard and practices in post-crisis recovery operations, and a suitable scope for the COBACORE platform (intended use, user, and scenarios); 3) Derive general domain-based requirements for the COBACORE tool from a domain exploration, based on future use cases for the COBACORE tool.



The evaluation of the concept (WP5) - to organise experiments that evaluate the COBACORE support system, draw conclusions about its operational value in practice, and provide refinement advice for further development of the COBACORE system. And performs a contributing role in the other work packages.

ESENET

Project ID: 313013

Project Title: Emergency Services Europe Network

Project website: <http://www.esenet.org/>

Project Start Date: 2013-01-01

Project End Date: 2014-12-31

Project Total Cost: EUR 704 845.2

Project EC Financial Contribution: EUR 629 267

Slovak participant Name: ERUPSI S.R.O.

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Partners of the Consortium:

INTELLIGENCE FOR ENVIRONMENT AND SECURITY SRL IES SOLUTIONS SRL - ITALY

EUROPEAN EMERGENCY NUMBER ASSOCIATION ASBL - BELGIUM

ERUPSI S.R.O. - SLOVAKIA

Project Description: The improvement of the European capability to respond to everyday emergencies and guarantee the safety and security of citizens in case of major emergencies and disasters requires a significant step forward in the integration of existing systems at several levels.

The ESENet initiative aims at establishing a network of stakeholders in the Emergency Management domain that will identify, discuss and agree on needs, requirements, new technologies and best practices in responding to everyday as well as to major emergencies.

Project Objectives: The ultimate goals of ESENet are:

The identification of gaps in the emergency service provision chain and the collection of user requirements; the results of such activity will be a living document that will be made available to all stakeholders;

the selection of available and/or promising technologies for tackling the identified challenges, also identifying areas where further research is needed; the project will deliver a public report;

the analysis of organizational gaps, with suggestions and best practices at EU level about procedures, framework agreements and reorganizing suggested tasks; the results of such work will be reported in a public deliverable in form of suggestion of a roadmap to improve Emergency Services;

the identification of available standards or areas where standards will be needed.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 100 555.2

SK Participant EC Financial Contribution: EUR 89 661.72

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EU-SEC II

Project ID: 218076

Project Title: Coordinating National Research Programmes and Policies on Security at Major Events in Europe

Project website: <http://www.eu-secii.org/>

Project Start Date: 2008-07-01

Project End Date: 2011-10-31

Project Total Cost: EUR 2 829 013.06

Project EC Financial Contribution: EUR 2 527 000

Slovak participant Name: MINISTERSTVO VNUTRA SLOVENSKEJ REPUBLIKY, Ministry of Interior of the Slovak Republic

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Partners of the Consortium:

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MINISTERE DE L'INTERIEUR - FRANCE

METROPOLITAN POLICE - UNITED KINGDOM

MINISTERIE BINNENLANDSE ZAKEN EN KONINKRIJKSRELATIES - NETHERLANDS

MINISTERIO DELL'INTERNO - ITALY

MINISTERIO DA ADMINISTRACAO INTERNA - PORTUGAL

AN GARDA SIOCHANA - ÉIRE/IRELAND

SISAASIAINMINISTERIO - SUOMI/FINLAND

CUERPO NACIONAL DE POLICIA - A - SPAIN

SWEDISH NATIONAL POLICE BOARD - SWEDEN

MALTA POLICE FORCE - MALTA

MINISTRY OF JUSTICE - ESTONIA

POLICE ACADEMY OF LATVIA - LATVIA

CYPRUS POLICE - CYPRUS

EUROPEAN POLICE OFFICE EUROPOL - NETHERLANDS

BUNDESMINISTERIUM FÜR INNERES - MINISTRY OF THE INTERIOR - AUSTRIA

CENTER FOR SECURITY STUDIES - GREECE

MINISTRY OF THE INTERIOR OF THE REPUBLIC OF LATVIA - LATVIA

MINISTRY OF ADMINISTRATION AND INTERIOR - ROMANIA

POLICIJSKA UPRAVA MARIBOR - SLOVENIA

HUNGARIAN MINISTRY OF INTERIOR - HUNGARY

ACADEMY OF THE MINISTRY OF INTERIOR BULGARIA - BULGARIA

NATIONAL POLICE DEPARTMENT - DENMARK

GERMAN POLICE UNIVERSITY - GERMANY

MINISTERSTVO VNUTRA SLOVENSKEJ REPUBLIKY, MINISTRY OF INTERIOR OF THE SLOVAK REPUBLIC - SLOVAKIA

Project Description: The proposal Coordinating National Research Programmes and Policies on Security at Major Events in Europe (EU-SEC II) builds upon the EU-SEC project. Making full use of the capabilities and experience of its Consortium Partners - governmental authorities from EU MS - and avoiding overlapping with ongoing activities, EU-SEC II aims to respond to the dispersion of efforts and lack of coherence that hinder, on the one hand, the interaction between European technology research stakeholders and, on the other hand, the coordination between national and European efforts to achieve cost effective security solutions.



Project Objectives: The main goal is to contribute to the harmonization of national research policies and to the common understanding and identification of needs and priorities among its partners, which constitute the demand side of the EU technology market. EU-SEC II will carry out networking activity and set up and implement joint activities to identify common research policies in the field of security at Major Events, by addressing how end-users and suppliers could more effectively cooperate, how to encourage and direct security innovation and how to define new security standards. A further objective is to elaborate a strategic security research roadmap to guide and orientate European and national research programmes and the consequent allocation of funds.

Profile of Slovak Participant/ -s: The Ministry of Interior of the Slovak Republic (PIC 999825852) has been involved in the EUSEC II project since its beginning as a formal beneficiary, but all research, management, organisations and account activities have been implemented by Academy of the Police Force in Bratislava (PIC 961366322) since the kick-off meeting. Academy of the Police Force in Bratislava was established by the Slovak National Council in 1992 as a Higher Education Institution. The Academy carries out its mission by providing university training for Bachelors and conducting research in security services and specializations thereof. After a qualified teaching and research staff was introduced and international co-operation was established, the Academy was granted competences for offering Master study programmes and rigorous proceedings, doctoral study programme in research field policing and habilitation and inauguration ceremonies for the appointment of professors. After the year 2000 the Academy focused on the accreditation of study programs with a credit system and three-degree university education. Since 2004, the Academy has been entitled to run study programs Security-law protection of people and property in the Bachelor, Master and Doctoral degrees and study programs Security-law services in public administration in Bachelor and Master Degrees. From 2006 the Academy has been entitled to perform habilitation and inauguration ceremonies for the appointment of professors in the study field Protection of people and property. In 2007 the Academy submitted to an evaluation carried out by the European University Association, which positively assessed the Academy's activities, strategy and procedures and stated that the quality of education in the Academy complies with international criteria of university training.

SK Participant Project Cost: EUR 84 114

SK Participant EC Financial Contribution: EUR 75 000

Project Outcomes planned/real: Basic outputs from EU-SEC II project are outlined in the Manual for the International Coordination of Major Event Security Research in Europe issued in autumn 2011. It summarizes cooperative results from the coordinated Partners' activities of twenty-two European Union Member States to the project Coordinating National Research Programmes and Policies on Security at Major Events in Europe (EU-SEC II, July 2008 – October 2011). EU-SEC II has successfully established both a comprehensive EU-wide network of national authorities in the field of Major Event security planning and basic principles of common policies by which to enhance future European coordination at an international level. The instruction manual presents a set of foundational practices and policies upon which such future coordination can be built. The manual is a final set of instructions for coordinated joint activities between EU Member States, instructs on practices and policies developed during EU-SEC II as the foundations of the European House of Major Events Security – 'the House'. As a set of future research programme services intended to be offered to national authorities, the House is to serve as a tool to assist in the coordination of Major Event security planning and provision in Europe. The enhancement of this initiative is subject to a proposal for future joint activities which will help Member States implement aspects of the Stockholm Programme (2010-2014). This will be done in areas of effective policies for further European law-enforcement cooperation over large public events - a Major Event for security planning and its international coordination and harmonisation.

Slovak Participant's Role in Project: Slovak Participant research team deals predominantly with CTM 3, Media Management Guidelines. Developed by Germany as Task 3.3 during 2009 and 2010, and building upon Germany's previous contributions to the EU-SEC programme on ethics, the chapter focuses on the importance of international consistency for the police in world media relations. Stressing professionalism in police press office management, it concludes with direct reference to the European Code of Police Ethics. Team's Task 3.3 - Research guidelines on media management were found to be an indispensable tool for good policing, particularly in cases where unexpected and dramatic incidents occur during an event. Standard concentrations are significant for Slovak research team at all of CTMs and work packages 1 - 5, including dissemination.

FREESIC

Project ID: 285205

Project Title: Free Secure Interoperable Communications

Project website: <http://www.freescic.eu/>

Project Start Date: 2012-02-01

Project End Date: 2014-07-31

Project Total Cost: EUR 4 338 320

Project EC Financial Contribution: EUR 3 284 040

SLOVAK PARTICIPANT 1

Slovak participant Name: Ardaco, a.s.

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SLOVAK PARTICIPANT 2

Slovak participant Name: NARODNY BEZPECNOSTNY URAD SLOVENSKEJ REPUBLIKY, National Security Authority of Slovak Republic

Slovak participant address: BUDATÍNSKA 30, 850 07 BRATISLAVA

Contact person email/ phone: Ľuboš Illič, +421903993124

SLOVAK PARTICIPANT 3

Slovak participant Name: WORLD CONSULT A.S.

Slovak participant address: BENIAKOVA 3, BRATISLAVA

Contact person email/ phone: Vojtech Lampert, Lampert@worldconsult.sk, +421 2 65441132

Partners of the Consortium:

MINISTERE D'ETAT - LUXEMBOURG (GRAND-DUCHÉ)

UNIVERSITE DU LUXEMBOURG - LUXEMBOURG (GRAND-DUCHÉ)

ITTI SP.ZO.O. - POLAND

NEXTEL SA - SPAIN

BAPCO LBG - UNITED KINGDOM

PRAMACOM PRAGUE SPOL SRO - CZECH REPUBLIC

ARDACO, A.S. - SLOVAKIA

NARODNY BEZPECNOSTNY URAD SLOVENSKEJ REPUBLIKY, NATIONAL SECURITY AUTHORITY OF SLOVAK REPUBLIC - SOVAKIA

WORLD CONSULT A.S. - SLOVAKIA

Project Description: FREESIC project proposes a solution that will allow highly secure and cost-effective interoperability between communication infrastructures over the whole of Europe. The project has been inspired by legal, organizational and operational barriers we encountered during our attempts to provide interoperability for end users in the previous research project Secricom. We will utilize the lessons learned; continue the collaboration with original end user groups and new ones - experts who will help us address the interoperability issues on non-technical level as well.

Project Objectives: In recent years, the First Response organizations across Europe have considerably improved their communications with the deployment of new technologies including dedicated TETRA and TETRAPOL networks. Nevertheless, a number of recent major incidents have highlighted challenges the first responders face, most notably the interoperability barriers. ("Interoperable communications for Safety and Security", 2010) There are significant budgetary pressures for emergency responder agencies as well and they cannot invest significant part of their budget to interoperability which is needed only from time to time - the solution must be cost-effective.



During our work on the FP7- Security project SECRICOM much has been learned about the actual state of the interoperability and the real-life limitations that inhibit this fine goal. These obstacles are more related to business and culture or end-user organisations than technical matters:

Differing doctrines between agencies and countries

Significant budgetary pressures for emergency responder agencies

Optimisation of existing investments

Multiple systems deployed EU wide

Trust and security concerns

Classified information

International agreements and legal limitations

Business – long-term contracts.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Ardaco, a.s. (ADO) is a technological SME based in Bratislava, Slovakia. Ardaco puts strong emphasis on innovations and own technologies development. Its mission is to bring security to free exchange of information. Ardaco has been developing unique solutions and services in the area of communication and secure processing of information, personal identity and privacy protection for over 15 years. In the recent years, Ardaco has been actively involved in European and Slovak technological and research cooperation structures such as: EPoSS ETP – former member of the Steering Board and ARTEMISIA JTI – founding member, former member of Steering board. Previous experience relevant to the project tasks: Ardaco has focused on information and communication security since its establishment. Most of the products have undergone a lot of independent security audits and have been certified by National Security Authority of the Slovak Republic. The SecureCall – a GSM encryption product got certified up to the level NATO Confidential. In the past three years Ardaco has been active in international EU cooperation programmes. At present, Ardaco is involved in seven projects funded from FP7 and CIP programme. The most significant one is SECRIKOM – Seamless Communication for Crisis Management in which Ardaco is the technical coordinator and integration leader. Ardaco personnel have extensive experience in project management in international environment both in commercial and FP7 fields.

SK Participant Project Cost: EUR 1 133 300

SK Participant EC Financial Contribution: EUR 931 100

Project Outcomes planned/real: FREESIC is a collaborative research project seeking a solution that will allow highly secure and cost-effective interoperability between communication infrastructures over the whole of Europe. Ardaco is the coordinator of the project, which involves 9 partners and 5 associated partners. FREESIC has been inspired by legal, organizational and operational barriers the consortium has encountered during its previous activities.

Existing interoperability solutions, such as gateways, are the right approach and will simplify FREESICs adoption and in return FREESIC will open broader possibilities to them. It will be operated free-of-charge and will offer open source gateway, documentation and operational guidelines for others to use. The system should motivate end users outside the consortium to request the integration from their system vendors or integrators.

The architecture will take into account ongoing standardization research (e.g. NCOIC Interoperability Framework) to reduce the integration time and costs. The integration process will be simple; the system integrator takes the gateway and modifies it as needed. The gateway remains the property of the integrator. The integrators do not have to worry about disclosing any know-how or information. The communication between gateways will be end-to-end encrypted and the gateway will be under full control of end user to avoid security concerns.

Slovak Participant's Role in Project:

- Project coordinator and Technical board chair
- Leader WP1 – Project management
- Leader WP4 – Implementation of the interoperability platform

- Operation and maintenance of the platform during and after the project.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: National Security Authority of Slovak Republic (NSA) is the central body of state administration responsible for protection of classified information, encryption services, and electronic signature in the Slovak Republic. NSA conducts inspections on protection of classified information within central bodies of state administration, municipalities, and corporate entities; it conducts security clearance of nominees and issues or revoking nominees' certificates for handling classified information. Furthermore it issues or revokes Security Facility Clearance for corporate entities and certifies, or gives the approval to certify software, technical devices, mechanical prevention devices, and technical safeguarding devices. NSA is the main security body and the central certification authority of Slovakia. NSA issues regulations which govern tasks from the legislation. Previous experience relevant to project tasks: Information Security and Electronic Signature Department verifies and/or certifies security means and approves into operation the methods, systems and means of cipher protection of information for protection of classified information. During the last nine years the NSA has treated and certified several systems for protection of classified information. Its skilled and trained staff have leading expertise and knowledge in security systems.

SK Participant Project Cost: EUR 185 280

SK Participant EC Financial Contribution: EUR 79 360

Project Outcomes planned/real: FREESIC is a collaborative research project seeking a solution that will allow highly secure and cost-effective interoperability between communication infrastructures over the whole of Europe. Ardaco is the coordinator of the project, which involves 9 partners and 5 associated partners. FREESIC has been inspired by legal, organizational and operational barriers the consortium has encountered during its previous activities.

Existing interoperability solutions, such as gateways, are the right approach and will simplify FREESICs adoption and in return FREESIC will open broader possibilities to them. It will be operated free-of-charge and will offer open source gateway, documentation and operational guidelines for others to use. The system should motivate end users outside the consortium to request the integration from their system vendors or integrators.

The architecture will take into account ongoing standardization research (e.g. NCOIC Interoperability Framework) to reduce the integration time and costs. The integration process will be simple; the system integrator takes the gateway and modifies it as needed. The gateway remains the property of the integrator. The integrators do not have to worry about disclosing any know-how or information. The communication between gateways will be end-to-end encrypted and the gateway will be under full control of end user to avoid security concerns.

Slovak Participant's Role in Project: Main tasks in FREESIC (intensive collaboration with ADO, NEX and WCT is envisaged):

- Definition of legal, reliability, security (protection of classified information) and operational requirements,

- Risk analysis related to information exchange, operational procedures and interoperability,
- WP3 – Definition of technical and non-technical solutions,
- Definition of operational procedures, guidelines and recommendations,
- Supervision, evaluation and inspection of the security of communication systems,
- Leading the security team.

SLOVAK PARTICIPANT 3

Profile of Slovak Participant/ -s: World Consult, a.s. (WCT) is a joint stock company which has been established in Bratislava, Slovakia. It has been active in the field of special communication systems, devices and procedures for the past 8 years. The company was involved in the establishment of a dedicated communication network for emergency responders and the government and gained vast experience and know-how from the legal, organizational and technical aspects of special communication networks. The experts from WCT will utilize their direct relations with emergency responders (especially the Ministry of Interior - police, fire brigade and civil protection) to gain user feedback. The company is authorized for access to classified information as well - the security clearance up-to NATO/EU Secret level (SK clearance no.: BP-634-6/2009-C, EU clearance no.: SP-BP-634- 1/2009-DBS-C, NATO clearance no.: SP-BP-634/2009-DBS-C).

Previous experience relevant to the project tasks: The company is involved in the preparation of project documentation and legislative changes needed for the deployment of the backbone network for transmission of classified information within the government of the Slovak Republic while ensuring the transfer of classified information to NATO and EU. In addition to that, the company also participated in the deployment of a specialized network for the transmission of classified information between the Ministry of Foreign Affairs and its embassies (82 offices worldwide).

SK Participant Project Cost: EUR 385 440

SK Participant EC Financial Contribution: EUR 320 480

Project Outcomes planned/real: FREESIC is a collaborative research project seeking a solution that will allow highly secure and cost-effective interoperability between communication infrastructures over the whole of Europe. Ardaco is the coordinator of the project, which involves 9 partners and 5 associated partners. FREESIC has been inspired by legal, organizational and operational barriers the consortium has encountered during its previous activities.

Existing interoperability solutions, such as gateways, are the right approach and will simplify FREESICs adoption and in return FREESIC will open broader possibilities to them. It will be operated free-of-charge and will offer open source gateway, documentation and operational guidelines for others to use. The system should motivate end users outside the consortium to request the integration from their system vendors or integrators.

The architecture will take into account ongoing standardization research (e.g. NCOIC Interoperability Framework) to reduce the integration time and costs. The integration process will be simple; the system integrator

takes the gateway and modifies it as needed. The gateway remains the property of the integrator. The integrators do not have to worry about disclosing any know-how or information. The communication between gateways will be end-to-end encrypted and the gateway will be under full control of end user to avoid security concerns.

Slovak Participant's Role in Project: Main tasks in FREESIC:

- Provide input to requests and for non-technical limitation analysis,
- Provide guidance and advice related to exchange of information between EU member states,
- Based on previous experience with establishing communication backbones identify the issues, risks and assist in finding solutions,
- Contact point for Slovak end users; representation of their interest;
- WCT's new expert will be responsible for the operational procedures and consultations with other institutions,
- WCT will assist NSA with Tempest measurements during security evaluation,
- WCT will assist in negotiations with Slovak and Czech authorities,
- Promotion of FREESIC and Secricom ideas during WCTs public events and events organized for Slovak Police.

GAMMA

Project ID: 312382

Project Title: Global ATM security management

Project website: <http://www.gamma-project.eu/>

Project Start Date: 2013-09-01

Project End Date: 2017-08-31

Project Total Cost: EUR 14 837 981.6

Project EC Financial Contribution: EUR 9 124 760

Slovak participant Name: USTAV INFORMATIKY SLOVENSKEJ AKADEMIE VIED,
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BOEING RESEARCH & TECHNOLOGY EUROPE S.L.U. - SPAIN

CASSIDIAN SAS - FRANCE

ADMINISTRATIA ROMANA A SERVICIILOR DE TRAFIC AERIAN - ROMANIA

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USTAV INFORMATIKY SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF INFORMATICS OF
SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The GAMMA project stems from the recognition that while the SESAR initiative is effectively addressing some security issues in the new global ATM scenarios, there is a need to extend this scope to ensure a comprehensive assessment of the full set of security threats and vulnerabilities affecting ATM, considered as a system of systems and covering operational as well as technological aspects. In addition, there is a need, not completely met by SESAR, to establish a comprehensive framework for managing ATM security once SESAR deployment is engaged to minimise the effects of ATM crises brought about by security incidents.

Project Objectives: The GAMMA vision is to adopt a holistic approach for assessing ATM security, maintaining alignment with SESAR and reaching the following main objectives:

- Extend the scope of threat assessment performed within SESAR to a more comprehensive system of systems level, inclusive of all ATM assets and all forms of threats.
- Develop a Global ATM Security Management framework, representing a concrete proposal for the day-to-day operation of ATM Security and the management of crises at European level.
- Define the architecture of an ATM security solution, suitable to support the security management of the global ATM system.
- Design and implement prototype components of the ATM solution so as to demonstrate the functionalities and operations proposed for the future European ATM.
- Set up a realistic validation environment, representative of the target ATM solution, through which to perform validation exercises aimed at validating the feasibility and assessing the adequateness of the procedures, technologies, and human resources issues proposed.

Profile of Slovak Participant/ -s: The Institute of Informatics of Slovak Academy of Sciences includes around 70 scientific researchers. The scope of its research and development activities include informatics, information technology, robotics, control theory and artificial intelligence. IISAS has participated in many IST and European funded projects (FP7: VENIS, SeCriCom, Commius, Admire, EGEE III; FP6: K-Wf Grid, DEGREE, MEDIGRID, int.eu.grid, EGEE, EGEE II; FP5: Pellucid, CrossGrid, ANFAS) as well as in Slovak government-funded projects related to informatics, robotics and artificial intelligence. The Department of Speech Analysis and Synthesis deals with speech processing mostly in speaker (voice) recognition and verification, speech recognition and synthesis. The applications developed at this department are in commercial use (T-Com, T-mobile, Orange, Spectra v.d.n., Ministry of Justice of the Slovak Republic etc.). The Department have participated in European projects, e.g. SpeechDat dealing with speech databases, EURONOUNCE focusing on non-native pronunciation of speakers etc.

The Department's expertise in speech processing research has been strengthened by its involvement in several EU-funded projects such as SPEECH-DAT-E (creating professional speech database for speech recognition) or EURONOUNCE (teaching pronunciation of foreign languages using computer feedback) and numerous Slovakia-funded projects such as APD (building an automatic dictation system for judges and other staff of the Ministry of Justice) or other applications utilizing speech synthesis and recognition. The Department also participates in multiple EU-funded projects within the Institute of Informatics, for example CRISIS (research and development of new technologies for predicting and solving crises and enhancing public safety).

SK Participant Project Cost: EUR 126 240

SK Participant EC Financial Contribution: EUR 96 840

Project Outcomes planned/real: The GAMMA project stems from the recognition that while the SESAR initiative is effectively addressing some security issues in the new global ATM scenarios, there is a need to extend this scope to ensure a comprehensive assessment of the full set of security threats and vulnerabilities affecting ATM, considered as a system of systems and covering operational as well as technological aspects. The GAMMA vision is to adopt a holistic approach for assessing ATM security, maintaining alignment with SESAR and accomplishing the following main objectives:

- Extend the scope of threat assessment performed within SESAR to a more comprehensive system of systems level, inclusive of all ATM assets and all forms of threats.
- Develop a Global ATM Security Management framework, representing a concrete proposal for the day-to-day operation of ATM Security and the management of crises at European level.
- Define the architecture of an ATM security solution, suitable to support the security management of the global ATM system.
- Design and implement prototype components of the ATM solution so as to demonstrate the functionalities and operations proposed for the future European ATM.
- Set up a realistic validation environment, representative of the target ATM solution, through which to perform validation exercises aimed at validating the feasibility and assessing the adequateness of the procedures, technologies, and human resources issues proposed.

The international dimension will also be considered with special reference to interoperability with US systems.

Slovak Participant's Role in Project:

WP6: Contribution in the development of prototypes 'Secure ATC Communication'. SAV has long-standing experience and competence in speech recognition and speaker verification. In cooperation with DLR, the SAV will develop and integrate a speaker authentication component for the security prototypes focussing on secure air-ground communication based on radio telephony.

WP10: Contribution to dissemination. SAV will make use of its participation in international conferences and its capability to produce scientific publications to disseminate project results.

INDECT

Project ID: 218086
 Project Title: Intelligent Information System Supporting Observation, Searching and Detection for Security of Citizens in Urban Environment
 Project website: <http://www.indect-project.eu/>
 Project Start Date: 2009-01-01
 Project End Date: 2014-06-30
 Project Total Cost: EUR 14 828 107.85
 Project EC Financial Contribution: EUR 10 906 984
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 BERGISCHE UNIVERSITAET WUPPERTAL - GERMANY
 MINISTERSTWO SPRAW WEWNETRZNYCH I ADMINISTRACJI - POLAND
 TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE - SLOVAKIA

Project Description: The purpose of the INDECT project is to involve European scientists and researchers in the development of solutions of and tools for automatic threat detection.

The primary objective is to develop advanced and innovative algorithms for human decision support in combating terrorism and other criminal activities, such as human trafficking, child pornography, detection of dangerous situations (e.g. robberies) and the use of dangerous objects (e.g. knives or guns) in public spaces. Efficient tools for dealing with such situations are crucial to ensuring the safety of citizens.

A significant part of the project is dedicated to the development of tools and methods for data and privacy protection. The processed information is protected before its transmission or storage to prevent any attempts at unauthorized access. Dedicated tools are being developed to protect citizens' privacy in areas covered by visual monitoring systems.

Project Objectives: The main objectives of the INDECT project are: to develop a platform for the registration and exchange of operational data, acquisition of multimedia content, intelligent processing of all information and automatic detection of threats and recognition of abnormal behaviour or violence, to develop the prototype of an integrated, network-centric system supporting the operational activities of police officers, providing techniques and tools for observation of various mobile objects, to develop a new type of search engine combining direct search of images and video based on watermarked contents, and the storage of metadata in the form of digital watermarks, to develop a set of techniques supporting surveillance of internet resources, analysis of the acquired information, and detection of criminal activities and threats.



Profile of Slovak Participant/ -s: In the INDECT project, TUKE is represented by the Department of Electronics and Multimedia Communications, Laboratory of speech technologies and mobile networks. The activities of the research group focus on particular problems related to research and development of speech technologies for telecommunications, mobile and wireless networks. At present, specific attention is paid to solving issues in the development of efficient mobile Ad-Hoc routing protocols, efficient Call Admission Control algorithms for next generation mobile networks, security and design of speech driven multimodal services for small mobile terminals.

SK Participant Project Cost: EUR 396 490.8

SK Participant EC Financial Contribution: EUR 287 202.5

Project Outcomes planned/real: To develop a platform for:

- the registration and exchange of operational data, acquisition of multimedia content, intelligent processing of all information and automatic detection of threats and recognition of abnormal behaviour or violence,
- to develop the prototype of an integrated, network-centric system supporting the operational activities of police officers, providing techniques and tools for observation of various mobile objects,
- to develop a new type of search engine combining direct search of images and video based on watermarked contents, and the storage of metadata in the form of digital watermarks,
- to develop a set of techniques supporting surveillance of internet resources, analysis of the acquired information, and detection of criminal activities and threats.

Slovak Participant's Role in Project: Automatic detection of acoustic threats; localisation and observation of various mobile objects; new type of search engine combining direct search of images and video based on watermarked contents.

PROTECTRAIL

Project ID: 242270
 Project Title: The Railway-Industry Partnership for Integrated Security of Rail Transport
 Project website: <http://www.protectrail.eu/>
 Project Start Date: 2010-09-01
 Project End Date: 2014-02-28
 Project Total Cost: EUR 21 644 417
 Project EC Financial Contribution: EUR 13 115 064
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 SMITHS HEIMANN SAS - FRANCE

INSTYTUT KOLEJNICTWA - POLAND
 SARAD GMBH - GERMANY
 KINGSTON UNIVERSITY HIGHER EDUCATION CORPORATION - UNITED KINGDOM
 PKP POLSKIE LINIE KOLEJOWE SA - POLAND
 RETE FERROVIARIA ITALIANA - ITALY
 TURKIYE CUMHURİYETİ DEVLET DEMİR YOLLARI İŞLETMESİ GENEL MÜDÜRLÜĞÜ - TURKEY
 MORPHO - FRANCE
 SELEX ELSAG SPA - ITALY
 ITALCERTIFER SCPA - ITALY
 SOCIETE NATIONALE DES CHEMINS DE FER FRANCAIS - FRANCE
 SELEX ES SPA - ITALY
 ALSTOM TRANSPORT S.A. – FRANCE
 ZELEZNICNA SPOLOCNOST SLOVENSKO A.S (ZSSK) - SLOVAKIA

Project Description: Facing the problem of enhancing railway security with a systematic top-down approach (i.e. to search for an all-inclusive solution valid for all conceivable threat scenarios) is judged by PROTECTRAIL members too ambitious even if it could generate potential economies of scale and effort rationalisation. The proposed PROTECTRAIL approach is therefore to split the problem of making the railway more secure into smaller asset-specific security problems (missions) for which it is easier to reach satisfactory solutions applicable and usable in different threat scenarios. Each sub-mission could be therefore better oriented to particularly significant areas of interest, resulting from risk analysis or from rail operator priorities. In a clear view of scope and performance goals, for each sub mission it will be easier to define, research and develop solutions in terms of architectures, technology deployment, as well as the necessary procedures, organizations to manage the specific issue. The PROTECTRAIL challenge is therefore to make interoperable the single asset-specific solutions and to conceive and design a modular architectural framework where each asset-specific solution can be plugged, that is the basis to assure a streamlined process of federation, integration and interoperability of respective solutions. The PROTECTRAIL project will address the following security sub-missions: protection of signal and power distribution systems against any terrorism act, track clearance, clearance of trains before and after daily use, staff clearance, luggage clearance control, passenger clearance control, freight clearance control, tracking and monitoring of rolling stock carrying dangerous goods, protection of communication and information systems, stations, buildings and infrastructure protection.

Project Objectives: The PROTECTRAIL objective is to provide a viable integrated set of railway security solution, by considering:

- the extent of the assets involved,
- the nature of the possible threats,
- the amount of technical requirements and operational constraints.

The integration will follow an innovative way and will extend the scope of the project beyond the mission addressed by the EC call.

PROTECTRAIL will develop a mission-oriented solution vs. asset-specific threats and will make them interoperable by designing a modular architectural framework where each solution can be “plugged”.

PROTECTRAIL will also provide the basis for a streamlined process of federation, integration and interoperability of the developed solutions

The project will ensure that appropriate solutions and innovations are favoured over isolated issues and solutions, and will represent a comprehensive and scalable answers to rail security.

The assumption is that within this frame of solutions, each railway operator in Europe should be able to compose its integration of existing technological tools by using the same architecture according to the specific needs, requirements and budget, and subsequently assess the security potential of the solution.

In the dissemination process the project will initiate a cooperation framework with national and EU authorities and the standardization bodies, in view of future proposals for recommendations to be adopted, for enhancing security in railway context

Profile of Slovak Participant/ -s: ZSSK - Slovak passenger railway providing domestic and international passenger transport services, mainly within Public Service Contract.

SK Participant Project Cost: EUR 84 000

SK Participant EC Financial Contribution: EUR 42 000

Project Outcomes planned/real: The PROTECTRAIL objective was to provide a viable integrated set of railway security solutions, by considering the extent of the assets involved, the nature of the possible threats, the amount of technical requirements and operational constraints. The integration has followed an innovative way and extended the scope of the project beyond the mission addressed by the EC call. PROTECTRAIL has developed mission-oriented solutions to asset-specific threats and has made them interoperable by designing a modular architectural framework where each solution can be “plugged”. PROTECTRAIL has also provided the basis for a streamlined process of federation, integration and interoperability of the developed solutions. The project has ensured that appropriate solutions and innovations will be favoured over isolated questions and solutions, and will represent a comprehensive and scalable answers to rail security. The assumption made is that within this frame of solutions, each railway operator in Europe should be able to compose its integration of existing technological tools by using the same architecture according to the specific needs, requirements and budget, and subsequently assess the security potential of the solution.

Slovak Participant’s Role in Project: ZSSK has cooperated in the project mainly by contributing of its own experience and analysis in the railway security area. ZSSK has used its previous experience from similar projects and working activities (e. g. UIC Schengenrail Project) and has cooperated on evaluating of regional disparities within and outside of the EU (mainly in border regions). Furthermore, ZSSK has contributed to elaborating of proposals for solutions in order to eliminate existing problems in the railway security area. Project work on behalf of ZSSK has been carried out mainly by the Crisis Management Team which is the unit responsible for dealing with railways security questions. International Relations Department of ZSSK has coordinated communication and administrative issues of the project.

RAIN

Project ID: 608166

Project Title: Risk Analysis of Infrastructure Networks in response to extreme weather

Project website: <http://rain-project.eu/>

Project Start Date: 2014-05-01

Project End Date: 2017-04-30

Project Total Cost: EUR 4 771 603.4

Project EC Financial Contribution: EUR 3 493 600

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UNION FENOSA DISTRIBUCION SA - SPAIN

APLICACIONES EN INFORMATICA AVANZADA SA - SPAIN

Project Description: RAIN contributes to minimising the impact of extreme weather events on transport, energy and telecommunication networks. The project will develop early warning systems, decision support tools and engineering solutions to ensure rapid reinstatement of the network. This will improve reliability of critical infrastructures and reduce disruption for citizens.

Project Objectives: The RAIN vision is to provide an operational analysis framework that identifies critical infrastructure components impacted by extreme weather events and minimise the impact of these events on the EU infrastructure network. The project has a core focus on land-based infrastructure with a much wider consideration of the ancillary infrastructure network in order to identify cascading and inter-related infrastructure issues. A core component of the research will consider the implications of climate change and the subsequent impacts that this may have on an already ageing and vulnerable infrastructure system. The impact of these disruptions on both the key components and the wider pan-European network will be assessed using economic and social markers that will identify and rank a series of “worst case” scenarios. Technical and Logistic solutions will be developed to minimise the impact of these extreme events, which will include novel early warning systems, decision support tools and

engineering solutions to ensure rapid reinstatement of the network. These tools will be implemented within a fresh Europe-wide operational and response strategy that will build on previous European infrastructure models. The robustness of the existing transport and energy networks to deal with changing weather conditions will be analysed in detail. The ability of this response plan to transcend borders will be guaranteed by the multi-disciplinary consortium. The project grouping will have expertise in climatology, operational analysis, transportation economics, risk analysis and mitigation, emergency planning, transportation engineering as well as engineering design and assessment. The outputs from the project will result in enhanced safety and reliability of critical infrastructure networks in the case of major weather induced disruptions and will address European policy in the areas of safety and security, inter-modality and emergency response planning.

Profile of Slovak Participant/ -s: The University of Zilina is a modern university providing higher education at under-graduate, graduate and post-graduate levels in technological, economic, management, and, in a limited range, humanities and natural science fields. At present, the University consists of seven faculties and seven institutes. Numerous international projects have been carried out successfully within the frame of various EU programs, such as Tempus, Leonardo, Socrates, 5th, 6th, 7th Framework Programme etc. There is a broad cooperation based on bilateral agreements. The University has introduced a sophisticated information system containing information about teachers, students, study programmes and plans, study results etc. The University and its faculties have renewed the ISO 9001 certification for professional quality management. The studies at the Faculty of Special (Security) Engineering are technologically and managerially oriented. The faculty curricula encompass specific subjects for preparing the bachelor- and engineer-level education for the needs of public administration, namely in the subjects of the civil and social security. For various companies of the national economy, social and other public institutions, the curricula are oriented on the problems of technological, economic, property and capital security, on safety at work, protection of persons, fire protection and solution of overall emergency and crisis situations. Furthermore, they are oriented on environmental problems including the solutions of natural disasters and catastrophes, and specifically on the problems of critical phenomena in the transport infrastructure, transport modes and logistics.

SK Participant Project Cost: EUR 149 040

SK Participant EC Financial Contribution: EUR 113 760

Project Outcomes planned/real: The RAIN vision is to provide an operational analysis framework that identifies critical infrastructure components.

Slovak Participant’s Role in Project: Within the RAIN, UNIZA contributed to the WP1, WP4, WP5, WP6, WP7 and WP8 and will be leader of WP3.

REDIRNET

Project ID: 607768

Project Title: Emergency Responder Data Interoperability Network

Project website: <http://www.redirnet.eu/>

Project Start Date: 2014-03-01

Project End Date: 2016-08-31

Project Total Cost: EUR 4 327 171.8

Project EC Financial Contribution: EUR 3 498 968

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VERDE SRO – SLOVAKIA

ARDACO, A.S. - SLOVAKIA

Project Description: REDIRNET - Emergency Responder Data Interoperability Network, will provide a decentralized framework for interoperability for first responders systems based on a public meta-data gateway controlled by the agencies themselves via a REDIRNET socio-professional web. Agencies will be able to link up to partner agencies of their choice and operational need; they will also be able to manage the scope of such interoperability. To help set up these link-up arrangements REDIRNET will be enhanced with semantic web methods in accordance with the vocabulary and processes of the user community. Inter-operating agencies will only need to develop one gateway (to REDIRNET) leading to a cost effective solution; agent technologies will also be developed so as to facilitate the integration of user systems into REDIRNET. A content management system is software that allows you to create and manage webpages easily by separating the creation of content from the mechanics required to present it on the web.

Project Objectives: Over the past five years the majority of the REDIRNET consortia have participated in projects SECRIком and FREESIC; this has involved partners engaging significantly with a wide range of public safety officers across the EU. A benefit of this engagement has been the recognition that in addition to agency interoperability of communications a pressing need exists for agency interoperability of additional IT systems such as databases, sensor systems and cameras. REDIRNET provides a framework for addressing this need with detailed mapping of user preferences and related legal requirements using innovative technologies.

The consortium is aware that frequently it is non-technical issues that hinder agency interoperability regardless of the quality of technical solutions. Consequently user engagement across a range of agencies EU-wide will be ongoing throughout the duration of REDIRNET. This will lead to the first of two elements of the REDIRNET framework - a quality repository of user identified interoperability issues and proposals for their resolution

The second element of REDIRNET will be technology. REDIRNET will provide a decentralized framework for interoperability for first responders systems based on a public meta-data gateway controlled by the agencies themselves via a REDIRNET socio-professional web. Agencies will be able to link up to partner agencies of their choice and operational need; they will also be able to manage the scope of such interoperability. To help set up these link-up arrangements REDIRNET will be enhanced with semantic web methods in accordance with the vocabulary and processes of the user community. Inter-operating agencies will need only to develop one gateway (to REDIRNET) leading to a cost effective solution; agent technologies will also be developed to facilitate the integration of user systems into REDIRNET.

REDIRNET
Emergency Responder Data Interoperability Network

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Ardaco, a.s. is a technological SME based in Bratislava, Slovakia. Ardaco puts strong emphasis on innovations and own technologies development.

Its mission is to bring security to free exchange of information. Ardaco has been developing unique solutions and services in the area of communication and secure processing of information, personal identity and privacy protection for over 15 years. In recent years, Ardaco has been actively involved in European and Slovak technological and research cooperation structures such as: EPoSS ETP – former member of the Steering Board and ARTEMISIA JTI – founding member, former member of Steering board. Previous experience relevant to the project tasks:

Ardaco has been focused on information and communication security since its establishment.

Most of the products have undergone a lot of independent security audits and have been certified by the National Security Authority of the Slovak Republic. The SecureCall – a GSM encryption product was certified up to the level NATO Confidential. During the past three years Ardaco has been active in international cooperation programmes of the EU. At present, Ardaco is involved in seven projects funded from FP7 and CIP programme. The most significant one is SECRIком - Seamless Communication for Crisis Management in which Ardaco is the technical coordinator and integration leader. Ardaco personnel have extensive experience in projects management in international environment both in commercial and FP7 fields.

SK Participant Project Cost: EUR 927 220

SK Participant EC Financial Contribution: EUR 781 850

Project Outcomes planned/real: Over the past 5 years Ardaco took key roles in projects SECRIком and FREESIC engaging significantly with a wide range of public safety officers across the EU. A benefit of this engagement has been the recognition that in addition to agency interoperability of communications a pressing need exists for agency interoperability of additional IT systems such as databases, sensor systems and cameras. REDIRNET provides a framework for addressing this need with detailed mapping of user preferences and related legal requirements using innovative technologies.

Slovak Participant's Role in Project: Project coordinator and Technical board chair

- Leader WP1 - Project management
- Leader WP6 - Field demonstration and evaluation of results
- Leader of Task 2.6 REDIRNET functional design and requirements
- Leader of Task 3.4 System Architecture Design
- Leader of Task 4.4 Deployment, operation and maintenance of the platform
- Leader of Task 5.3 REDIRNET operation and maintenance
- Leader of Task 7.1 Website REDIRNET
- Leader of Task 7.4 Exploitation
- Leader of deployment, operation and maintenance of the platform

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: II SAS is a leading research Institute in information technology of the Slovak Academy of Sciences with the scope of research and development in informatics, information technology, robotics, control theory and artificial intelligence and has experience in knowledge oriented technologies field, which has been evolved in the IST EU 5FP project Pellucid, deepened in the IST EU 6FP K-Wf Grid project and in IST EU 7FP projects COMMIIUS, ADMIRE, SECRIком as well as in several national projects related to knowledge & semantics. The aim of the Pellucid project was the development of a flexible and adaptable platform to assist organisationally mobile employees at middle and higher levels of public sector organisations. The semantics, e-collaboration with experience management was highlighted in the K-Wf Grid project. The aim of Commius was to deliver an adaptable and customizable software prototype, providing SMEs with zero-cost entry into interoperability using the ideas behind the Interoperability Service Utility. ADMIRE advanced the state of the art on large-scale, service oriented enterprise systems by showing how an integrated approach will deliver significant new capabilities with which to address the challenges provided by the complexity of such systems. SECRIком was a collaborative research project aiming at the development of a reference security platform for EU crisis management operations and brought interconnectivity of PTT traffic between different networks. The strong technological expertise of IISAS, based on knowledge management, semantic based communication processing, autonomous cooperating agents, business/process modelling and metadata for accessing document repositories create an excellent starting point for the VENIS project.

SK Participant Project Cost: EUR 359 488

SK Participant EC Financial Contribution: EUR 285 040

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 3

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 467 428.8

SK Participant EC Financial Contribution: EUR 364 771

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

RESPECT

Project ID: 285582

Project Title: RESPECT – Rules, Expectations & Security through Privacy-Enhanced Convenient Technologies

Project website: <http://respectproject.eu/>

Project Start Date: 2012-02-01

Project End Date: 2015-05-31

Project Total Cost: EUR 4 239 900

Project EC Financial Contribution: EUR 3 492 690

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

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UNIVERSITÄT WIEN - AUSTRIA

GEORG-AUGUST-UNIVERSITÄT GOETTINGEN STIFTUNG OEFFENTLICHEN RECHTS - GERMANY

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UNIVERZA V LJUBLJANI - SLOVENIA

UPPSALA UNIVERSITET - SWEDEN

UNIVERSITETET I OSLO - NORWAY

THE UNIVERSITY OF SHEFFIELD - UNITED KINGDOM

UNIVERSITAT DE BARCELONA - SPAIN

UNIVERSITY OF CENTRAL LANCASHIRE - UNITED KINGDOM

UNIVERSITA TA MALTA - MALTA

MASARYKOVA UNIVERZITA - CZECH REPUBLIC

UNIVERSITATEA BABES BOLYAI - ROMANIA

EDITH COWAN UNIVERSITY - AUSTRALIA

LAW AND INTERNET FOUNDATION - BULGARIA

UNIVERSIDAD DE LEON - SPAIN

THE UNIVERSITY OF WESTMINSTER LBG - UNITED KINGDOM

THE INTERNATIONAL CRIMINAL POLICE ORGANIZATION - FRANCE

LABORATORIO DI SCIENZE DELLA CITTADINANZA - LSC - ITALY

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-SLOVAKIA

Project Description: Convenience and cost-effectiveness are the two key considerations for both citizens and security forces when deciding which technologies to embrace or avoid in the Information Society. State actors and private corporations adopt information communication technologies (ICTs) because they are cost-effective. The motivation for adoption may be different in the private and public sectors but once adopted these ICTs are then capable of being bridged in multiple ways permitting police/security forces to go beyond the data they gather directly but also increasingly tap into data gathered and stored by private corporations. These ICTs, which have to date gone through a period of largely organic growth, will be deemed to be in balance if they are implemented in a way which respects individual privacy while still maximising convenience, profitability, public safety and security.

RESPECT seeks to investigate if the current and foreseeable implementation of ICTs in surveillance is indeed in balance and, where a lack of balance may exist or is perceived by citizens not to exist, the project explores options for redressing the balance through a combination of Privacy-Enhancing Technologies and operational approaches. Investigating at least five key sectors not yet tackled by other recent projects researching surveillance (CCTV, database mining and interconnection, on-line social network analysis, RFID & geo-location/sensor devices, financial tracking), RESPECT will also carry out quantitative and qualitative research on citizens awareness and attitudes to surveillance. RESPECT will produce tools that would enable policy makers to understand the socio-cultural as well as the operational and economic impact of surveillance systems. The project will also produce operational guidelines incorporating privacy by design approaches which would enable law enforcement agencies to deploy surveillance systems with lowest privacy risk possible and maximum security gain to citizens.

Project Objectives: RESPECT's Objectives

Review the actual effectiveness of surveillance systems and procedures used in Europe in preventing / reducing crime; and in tracking evidence for improved prosecutions of crimes and acts of terrorism.

Identify and examine the social and economic costs involved in the adoption and implementation of identified surveillance systems and procedures.

Determine the legal basis adopted for these systems and procedures, identifying any best practices that may have evolved as well as those areas where there is a need for improvement.

Explore European citizen's awareness/acceptance of surveillance systems and procedures based on attitudes to efficiency, economic and social costs.

Identify the possible effect of cultural influences on citizens' acceptance of surveillance systems and procedures.

Compare and further develop findings on these systems, procedures and attitudes with findings found in the FP7 CONSENT and SMART projects.

Establish best-practice criteria developed on the basis of operational, economic, social and legal efficiency and citizen perceptions

Develop a tool-kit capable of pan-European application (and beyond). This would be composed of three main items:

1. a matrix-style checklist incorporating operational/technical-economics-social factors – legal aspects which could be utilised as a decision-support tool for policy-makers assessing systems specifically designed for surveillance;

2. system design guidelines and;

3. Model force-level regulations which can be adopted by a police force for the deployment of surveillance systems including large-scale integrated systems. The matrix, design guidelines and regulations balance citizens' privacy and security concerns.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 147 680

SK Participant EC Financial Contribution: EUR 120 160

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SALIENT

Project ID: 242377

Project Title: Selective Antibodies Limited Immuno Assay Novel Technology

Project website: <http://www.saliant.eu>

Project Start Date: 2010-09-01

Project End Date: 2013-12-31

Project Total Cost: EUR 4 472 718.11

Project EC Financial Contribution: EUR 3 362 598.6

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, University of Zilina

Slovak participant address: UNIVERZITNÁ 8215/1, 010 26 ŽILINA

Contact person email/ phone: Ing. Maria Luskova, PhD., maria.luskova@fsi.uniza.sk,
Phone: +421 41 513 6766

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KITE INNOVATION (EUROPE) LIMITED - UNITED KINGDOM

CENTRE OF EXCELLENCE FOR LIFE SCIENCES LTD - UNITED KINGDOM

INDICIA BIOTECHNOLOGY - FRANCE

DEPARTMENT OF JUSTICE, EQUALITY & LAW REFORM - ÉIRE/IRELAND

APPLIKON ANALYTICAL - NETHERLANDS

SELECTIVE ANTIBODIES LIMITED - UNITED KINGDOM

NETHERLANDS FORENSIC INSTITUTE - NETHERLANDS

STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK – NETHERLANDS

ZILINSKA UNIVERZITA V ZILINE, UNIVERSITY OF ZILINA - SLOVAKIA

Project Description: SALIENT offers a system based on rapid positive detection of small molecular weight analytes such as explosives, toxic chemicals and drugs. In operation, a labelled first antibody binds the small analyte to be detected. A specific blocking agent is added that binds the remaining sites on the primary antibody that have not bound the analyte. A secondary antibody is added, which can bind the primary antibody when it has bound to its small analyte but cannot bind it when it has bound the specific blocking agent. In this manner the amount of labelled secondary antibody bound is directly related to the concentration of small analyte present and the smaller the analyte, the greater the signal is produced by the system, offering greater precision, sensitivity and ease of use over conventional competitive-format systems.

Project Objectives: SALIENT aims to develop a hand-held device for real-time analysis of trace levels of explosives, toxic chemicals and drugs. The key innovation is a positive detection lateral-flow test for small molecules that is highly sensitive and simple to use making it ideally suited to deployment by First Responders at crime scenes and terrorist incidents. Lateral flow immunodiagnosics has long offered the promise of fast, high-quality testing for substances of low molecular weight. There have however been very real challenges to bringing the full power of such technology to bear in this area.

Profile of Slovak Participant/ -s: The University of Zilina is a modern university providing technological, economic, management, and in a limited range humanistic and natural science education at under-graduate, graduate and post-graduate levels. At present, the University consists of seven faculties and seven institutes. Numerous international projects have been carried out successfully within the frame of various EU programs, such as Tempus, Leonardo, Socrates, 5th, 6th, 7th Framework Programme etc. There is a broad cooperation based on bilateral agreements. The University has introduced sophisticated information system containing information about teachers, students, study programmes and plans, study results etc. The University and its faculties have renewed the ISO 9001 certification for professional quality management.

The studies at Faculty of Special (Security) Engineering are technologically and managerially oriented. The faculty curricula encompass specific subjects for preparing the bachelors' and engineers' education for the needs of public administration, namely in the subjects of the civil and social security. For various companies of the national economy, social and other public institutions, the curricula are oriented on the problems of technological, economic, property and capital security, on safety at work, protection of persons, fire protection and solution of overall emergency and crisis situations. Furthermore, they are oriented on environmental problems including the solutions of natural disasters and catastrophes, and specifically on the problems of critical phenomena in the transport infrastructure, transport modes and logistics.

SK Participant Project Cost: EUR 188 403.2

SK Participant EC Financial Contribution: EUR 134 495.6

Project Outcomes planned/real: SALIENT aims to develop a hand-held device for real-time analysis of trace levels of explosives, chemicals and drugs. The key innovation is a positive detection lateral-flow test for small molecules that is rapid, highly sensitive and simple to use making it ideally suited to deployment by First Responders and Forensic Service Providers at crime scenes and terrorist incidents.

Slovak Participant's Role in Project: Within the SALIENT, UNIZA contributed to the specification process of the end-user needs, provided research and planning support to investigate all relevant issues that affect up-take of SALIENT technology in the sector and arranged for First Responder tests to take place in Slovakia.

SAVELEC

Project ID: 285202

Project Title: Safe control of non cooperative vehicles through electromagnetic means

Project website: <http://savelec-project.eu/>

Project Start Date: 2012-01-01

Project End Date: 2016-06-30

Project Total Cost: EUR 4 279 996

Project EC Financial Contribution: EUR 3 321 749

Slovak participant Name: AKADEMIA OZBROJENÝCH SIL GENERÁLA MILANA RASTISLAVA ŠTEFÁNIKA, Armed Forces Academy of General Milan Rastislav Štefánik

Slovak participant address: Demanova 393, 03101 LIPTOVSKÝ MIKULAS

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Partners of the Consortium:

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OTTO-VON-GUERICKE-UNIVERSITAET MAGDEBURG - GERMANY

HELLENIC AEROSPACE INDUSTRY SA - GREECE

IMST GMBH - GERMANY

BCB INFORMATICA Y CONTROL S.L. - SPAIN

MBDA FRANCE SAS - FRANCE

DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV - GERMANY

TECHNOLOGICAL EDUCATIONAL INSTITUTE OF PIRAEUS - GREECE

STATENS VAG- OCH TRANSPORTFORSKNINGSINSTITUT - SWEDEN

AKADEMIA OZBROJENÝCH SIL GENERÁLA MILANA RASTISLAVA ŠTEFÁNIKA, ARMED FORCES ACADEMY OF GENERAL MILAN RASTISLAV ŠTEFÁNIK - SLOVAKIA

Project Description: SAVELEC aims to provide a solution for the external, safe trol of a non cooperative vehicle without any sequences on the persons inside the vehicle or other persons and objects nearby. The proposed solution is based on the use of electromagnetic means, electromagnetic pulses (EMP) and high power microwaves (HPM), in order to disrupt the proper behaviour of the electronic components inside the vehicle, which will lead it to slow down and stop. The SAVELEC approach is based on the premise of obtaining an optimized solution in terms of field strength. In this sense, electromagnetic compatibility experiments on key components of cars will be performed in order to evaluate the effect of different types of signals. The sequences of human exposure to the signals chosen will be evaluated in the text of European legislation in order to ensure safety of persons inside the vehicle and in the environment as well as of the user of the technology. The effect in explosive atmospheres regarding exposure to this kind of signal is also within the scope of SAVELEC. A simulated environment will be used for assessing the human driver reactions in different scenarios and driving ditions once the car enters the abnormal behaviour mode as a sequence of the influence of the electromagnetic signal. Legal studies on the use of this technology by the European Security Forces will be carried out and a regulatory framework will be proposed and promoted. Special attention will be paid to the measures needed for assuring a trolled and secure use of this kind of device.

Project Objectives: The purpose of the project is to design and build a breadboard level prototype for the evaluation of the technology. A real demonstration on cars passing along a trolled track will be performed to assess the technology in a real scenario. The involvement of security forces as end-users in the project is a key factor as regards the necessity of having realistic information about the use-cases, and scenarios.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 58 272

SK Participant EC Financial Contribution: EUR 48 192

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SECRICOM

Project ID: 218123

Project Title: Seamless Communication for Crisis Management

Project website: <http://www.secricom.eu/>

Project Start Date: 2008-09-01

Project End Date: 2012-04-30

Project Total Cost: EUR 12 424 827.51

Project EC Financial Contribution: EUR 8 606 568.2

SLOVAK PARTICIPANT 1

Slovak participant Name: Ardaco, a.s.

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SLOVAK PARTICIPANT 2

Slovak participant Name: GA DRILLING A.S.

Slovak participant address: Piešťanská 3, 917 01 TRNAVA

Contact person email/ phone: Mr. Lubos Slovak, lubos@geoany.com, +421 2 20920100

SLOVAK PARTICIPANT 3

Slovak participant Name: USTAV INFORMATIKY SLOVENSKEJ AKADEMIE VIED, Institute of Informatics, Slovak Academy of Sciences

Slovak participant address: DÚBRAVSKÁ CESTA 9, 845 07 BRATISLAVA

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Partners of the Consortium:

QINETIQ LIMITED - UNITED KINGDOM

TECHNISCHE UNIVERSITAET GRAZ - AUSTRIA

INFINEON TECHNOLOGIES AG - GERMANY

ITTI SP.ZO.O. - POLAND

HITACHI EUROPE SAS - FRANCE

NEXTEL SA - SPAIN

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE

UNIVERSITE DU LUXEMBOURG - LUXEMBOURG (GRAND-DUCHÉ)

BAPCO LBG - UNITED KINGDOM

BUMAR SP. Z.O.O. - POLAND

UNIVERSITY OF PATRAS – GREECE

ARDACO, A.S.- SLOVAKIA

GA DRILLING A.S.- SLOVAKIA

USTAV INFORMATIKY SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF INFORMATICS, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: SECRICOM is proposed as a collaborative research project aiming at the development of a reference security platform for EU crisis management operations with two essential ambitions: 1) solve or mitigate problems of contemporary crisis communication infrastructures (Tetra, GSM, Citizen Band, IP) such as poor interoperability of specialized communication means, vulnerability against tapping and misuse, lack of possibilities to recover from failures, inability to use alternative data carrier and high deployment and operational costs; 2) add new smart functions to existing services which will make the communication more effective and helpful for users. Smart functions will be provided by distributed IT systems based on agent infrastructure. Achieving these two project ambitions will allow creating a pervasive and trusted communication infrastructure fulfilling requirements of crisis management users, while being ready for immediate application.



Project Objectives: To solve problems of contemporary crisis communication infrastructures:

- Seamless and secure interoperability of existing many hundred thousand mobile devices already deployed,
- Smooth, simple, converging interface from systems currently deployed to systems of new SDR generation,
- Creation of pervasive and trusted communication infrastructure, bring interconnectivity between different networks,
- Provide true collaboration and inter-working of emergency responders,
- Seamlessly support different user traffic over different communication bearers,
- Add new smart functions using distributed IT systems based on SDR secure agent infrastructure,
- Easier instant information gathering and processing focusing on emergency responders' main task – saving lives.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Ardaco, a.s. (ADO) is a technological SME based in Bratislava, Slovakia. Ardaco puts strong emphasis on innovations and own technologies development. Its mission is to bring security to free exchange of information. Ardaco has been developing unique solutions and services in the area of communication and secure processing of information, personal identity and privacy protection for over 15 years. In the recent years, Ardaco has been actively involved in European and Slovak technological and research cooperation structures such as: EPoSs ETP – former member of the Steering Board and ARTEMISIA JTI – founding member, former member of Steering board. Previous experience relevant to the project tasks: Ardaco has focused on information and communication security since its establishment. Most

of the products have undergone a lot of independent security audits and have been certified by National Security Authority of the Slovak Republic. The SecureCall – a GSM encryption product got certified up to the level NATO Confidential. In the past three years Ardaco has been active in international EU cooperation programmes. At present, Ardaco is involved in seven projects funded from FP7 and CIP programme. The most significant one is SECRICOM - Seamless Communication for Crisis Management in which Ardaco is the technical coordinator and integration leader. Ardaco personnel have extensive experience in project management in international environment both in commercial and FP7 fields.

SK Participant Project Cost: EUR 2 094 552

SK Participant EC Financial Contribution: EUR 1 642 764

Project Outcomes planned/real: Ardaco's largest completed research project, SECRICOM, was a collaborative research project aiming at the development of a reference security platform for EU crisis management operations with two essential ambitions:

To solve or mitigate problems of contemporary crisis communication infrastructures (Tetra, GSM, Citizen Band, IP) such as poor interoperability of specialized communication means, vulnerability against tapping and misuse, lack of possibilities to recover from failures, inability to use alternative data carriers and high deployment and operational costs;

- Add new smart functions to existing services which will make the communication more effective and helpful for users. Smart functions will be provided by distributed IT systems based on an agents' infrastructure.

Ardaco has built up a consortium of 13 partners with the required experience to cover all aspects of platform and communication security, resilience, availability and new state-of-the-art features.

Key inputs for the SECRICOM project idea were provided by the ESAB (European Security Research Advisory Board) members and BAPCO (the British Association of Public Safety Communications Officers).

SECRICOM development is focused on Ardaco Crisis management solutions. Project results were demonstrated in integrated fashion and user-plausible context.

Slovak Participant's Role in Project: Ardaco specialization in SECRICOM project was mainly in the field of push-to-talk communication systems, secure data transmission, wireless/mobile networks and strong crypto algorithms. Ardaco was responsible for inter-WP communication, controlling of the progress in achieving project results and for leadership in WP 3 and WP 7. Ardaco contributed to other work packages in the extent of its expertise.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 1 058 760

SK Participant EC Financial Contribution: EUR 834 400

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 3

Profile of Slovak Participant/ -s: Institute of Informatics, Slovak Academy of Sciences (II SAS) is one of more than 50 scientific and research institutes of the Slovak Academy of Sciences in Bratislava, Slovakia. UISAV, established in 1956, is a leading research institute in informatics and information technology in Slovakia. The Institute employs around 70 scientific researchers. The scope of researched development activities includes informatics, information technology, robotics, control theory and artificial intelligence.

SK Participant Project Cost: EUR 533 776

SK Participant EC Financial Contribution: EUR 396 880

Project Outcomes planned/real: The outcomes of UISAV in SECRICOM project are a process management subsystem (PMS) used for agent execution, distributed secured agent platform (DSAP), resource inquiry subsystem (RIS) used for searching the most appropriate hosting platform, subsystem for certification and verification of agents based on PKI and agent register. In the SECRICOM scenario, the following three core agent types were identified and implemented: the information delivery agent, user communication agent and network management agent.

Slovak Participant's Role in Project: The main goal of UISAV was to design and implement the prototype of Secure Agent Infrastructure (SAI). The agents in the SAI framework provide a means to automate access to legacy resources, human interaction or network configuration. Joint efforts of relevant work packages in SECRICOM project resulted in secure and trusted agent-based infrastructure.

WP2 – System analysis and design. WP4 – Secure agent infrastructure. WP7 – Integration of research results. WP10 – Project demonstration. WP11 – Dissemination and exploitation.

SEREN

Project ID: 217937

Project Title: SSecurity REsearch Ncp network - phase 1

Project website: <http://www.seren-project.eu/>

Project Start Date: 2008-02-01

Project End Date: 2009-07-31

Project Total Cost: EUR 743 597.4

Project EC Financial Contribution: EUR 557 692

Slovak participant Name: AGENTURA NA PODPORU VYSKUMU A VYVOJA (APVV),
Slovak Research and Development Agency (SRDA)

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FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE

TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY

RIGAS TEHNISKA UNIVERSITATE - LATVIA

SENTERNOVEM - NETHERLANDS

NEMZETI KUTATASI ES TECHNOLOGIAI HIVATAL - HUNGARY

AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA - ITALY

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RESEARCH PROMOTION FOUNDATION - CYPRUS

MALTA COUNCIL FOR SCIENCE AND TECHNOLOGY - MALTA

SERVICE D'INFORMATION SCIENTIFIQUE ET TECHNIQUE / DIENST VOOR
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FORSKNINGS- OG INNOVATIONSSTYRELSEN - DENMARK

NORGES FORSKNINGSRAD - NORWAY

MATIMOP, ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT - ISRAEL

LUXINNOVATION GIE - LUXEMBOURG (GRAND-DUCHÉ)

OESTERREICHISCHE FORSCHUNGSFOERDERUNGSGESELLSCHAFT MBH - AUSTRIA

CENTRO PARA EL DESARROLLO TECNOLÓGICO INDUSTRIAL - SPAIN

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INSTITUTE - CZECH REPUBLIC

AGENCIA DE INOVACAO - INOVACAO EMPRESARIAL E TRANSFERENCIA DE
TECNOLOGIA - PORTUGAL

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- SWEDEN

HOME OFFICE - UNITED KINGDOM

ROMANIAN SPACE AGENCY - ROMANIA

INSTYTUT PODSTAWOWYCH PROBLEMOW TECHNIKI POLSKIEJ AKADEMII NAUK -
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TARPTAUTINIŲ MOKSLŲ IR TECHNOLOGIJŲ PLETROS PROGRAMU AGENTURA -
LITHUANIA

AGENTURA NA PODPORU VYSKUMU A VYVOJA (APVV), Slovak Research and
Development Agency (SRDA) - SLOVAKIA

Project Description: The aim of the SEREN-phase I coordination action was first and foremost to link all security research NCPs, to identify fields of improvement for the structuring of the network, to initiate coordination, to start promoting joint activities and to improve the quality of the network and, as a matter of fact, the ability of its members to deliver a high level of service to the community.

Security research NCP network being relatively young with partners relatively new in the field of security research or / and with a relatively limited experience of the framework programme, the objective of SEREN was therefore limited and consisted mainly of preparatory tasks.

Project Objectives: the SEREN objectives were to:

(1) Identify network needs and initiation coordination among its members: In order to deliver good and relevant services, a prerequisite is first and foremost to know the 'client' needs and demand. Therefore, a first step was to identify needs of both stakeholders and NCPs. Building on this preliminary step, SEREN then developed guidelines that one hand reminded NCPs what services are demanded within the security research community, and on the other hand enable the NCP to benchmark its own service with those offered in other countries. The second objective of this work package (WP) was to initiate some coordination and polling of knowledge by setting up processes for the exchange of good practices, for fostering networking amongst NCPs and finally for sharing experience and knowledge. The final objective of this WP was to specify and set up a website serving as tool for the exchange of information and for the communication on SEREN actions was set up online.

(2) Increase NCP knowledge and awareness of the European security landscape: In order to deliver advices in their respective country, NCPs must have a minimum understanding of the European landscape. However, the security research is a relatively young theme at European level, and at national level as well. In the past, research programmes related to security were often mixed within defence- or police-related programmes. Also, a lot of national research initiatives have strong links with Security (e.g. Information and communication technology (ICT), Health, transport). Though improvements have been made recently with the recent launch of dedicated national security programmes in Austria, Finland, France, Germany, the Netherlands, Romania, and United Kingdom, this depicted situation is still broadly true. In consequence, few are the stakeholders across Europe presenting a clear vision of the security research programmes and actors in the different Member States and associated countries.

(3) Coordinate and ease transnational cooperation and training: The EU Community potentially interested in security research faces a high level of fragmentation. Therefore, SMEs, universities and research centres are confronted to difficulties far superior than in the other part of FP7 to find other potential partners with whom they might collaborate. Hence, it is extremely important that the NCP network delivers a high level service for the partner searches. We therefore proposed with SEREN to initiate coordination in this field by agreeing on standardised partner search templates. Moreover, many NCPs being new comers SEREN aimed to improve the average level of knowledge of its members and, therefore, of the average level of support services offered by NCP to demanding consortia. In this respect, a successful training was organised on the evaluation of proposals.

(4) Policy monitoring: Security research is closely linked to many EU policies spanning throughout the three EU pillars and many agencies. In this respect, security research policy context is highly complex. Mere is the number of small research centres or SMES that can afford to follow attentively the development of the Security Research Area (SEC). Moreover, many NCPs are not be fully dedicated to security as they have in charge also other areas of the FP7. Those NCPs cannot therefore dedicate much time to the monitoring of the security research actuality. Therefore, it is of utmost important that SEREN addresses this weakness and monitors the main evolution of potential interest to the European security research programme (ESRP). Therefore, SEREN had for objective to monitor the ESRP main evolution and disseminate the information across the network throughout European stakeholders.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 2 400

SK Participant EC Financial Contribution: EUR 2 140

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SEREN 2

Project ID: 261814

Project Title: SSecurity REsearch Ncp network – phase 2

Project website: <http://www.seren-project.eu/>

Project Start Date: 2011-04-01

Project End Date: 2013-12-31

Project Total Cost: EUR 1 802 474.84

Project EC Financial Contribution: EUR 1 499 546.21

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, University of Zilina

Slovak participant address: UNIVERZITNÁ 8215/1, 010 26 ŽILINA

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Partners of the Consortium:

ROMANIAN SPACE AGENCY - ROMANIA

TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY

FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE

RIGAS TEHNISKA UNIVERSITATE - LATVIA

MATIMOP, ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT - ISRAEL

VEREIN EURESEARCH - SWITZERLAND

SIHTASUTUS ARCHIMEDES - ESTONIA

RESEARCH PROMOTION FOUNDATION - CYPRUS

FUNDACAO PARA A CIENCIA E A TECNOLOGIA - PORTUGAL

MOKSLO INOVACIJU IR TECHNOLOGIJU AGENTURA - LITHUANIA

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE

CENTRE FOR NATIONAL SECURITY AND DEFENSE RESEARCH - BULGARIA

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH - SOUTH AFRICA

HRVATSKI INSTITUT ZA TEHNOLOGIJU - CROATIA

INSTYTUT PODSTAWOWYCH PROBLEMOW TECHNIKI POLSKIEJ AKADEMII NAUK - POLAND

SIHTASUTUS EESTI TEADUSAGENTUUR - ESTONIA

INSTITUTO NACIONAL DE TECNICA AEROESPACIAL - SPAIN

TEHNOLOGICKE CENTRUM AKADEMIE VED CESKE REPUBLIKY - CZECH REPUBLIC

TOTALFORSVARETS FORSKNINGINSTITUT - SWEDEN

POSLOVNO-INOVACIJSKA AGNCIJA REPUBLIKE HRVATSKE - CROATIA

AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA - ITALY

CENTRO PARA EL DESARROLLO TECNOLOGICO INDUSTRIAL. - SPAIN

TEKES-TEKNOLOGIAN JA INNOVAATIOIDEN KEHITTAEMISKESKUS - SUOMI/FINLAND

NORGES FORSKNINGSRAD - NORWAY

OESTERREICHISCHE FORSCHUNGSFOERDERUNGSGESELLSCHAFT MBH - AUSTRIA

DIENST VOOR WETENSCHAPPELIJKE EN TECHNISCHE INFORMATIE - BELGIUM

OFFICE OF THE PRIME MINISTER – MALTA

ZILINSKA UNIVERZITA V ZILINE, UNIVERSITY OF ZILINA- SLOVAKIA

Project Description: SEREN2 is concerned with improving the services of the Security NCP Network through trans-national activities.

Project Objectives: The aim of the SEREN2 coordination action is to link the different NCPs of the Security research programme, to initiate coordination in the network, and to improve the quality of the network and, as a matter of fact, the ability of its members to deliver a high level of services to the community. Security Research presents several specifics as compared to other COOPERATION's thematic priorities. In consequence, perhaps more than in other FP7 programmes and thematic priorities, there is a strong necessity to inform and support the European Security Research community to participate in FP7.

Profile of Slovak Participant/ -s: The University of Zilina is a modern university providing technological, economic, management, and to a limited extent also humanistic and natural science education at under-graduate, graduate and post-graduate levels. At present, the University consists of seven faculties and seven institutes. Numerous international projects have been carried out successfully within the frame of various EU programs, such as Tempus, Leonardo, Socrates, 5th, 6th, 7th Framework Program etc. The University is involved in a broad cooperation based on bilateral agreements. The University has introduced a sophisticated information system containing information about teachers, students, study programmes and plans, study results etc. The University and its faculties have renewed the ISO 9001 certification for professional quality management.

The studies at Faculty of Special (Security) Engineering are technologically and managerially oriented. The faculty curricula encompass specific subjects for preparing Bachelor and Engineer level education for the needs of public administration, namely in the subjects of the civil and social security. For the needs of various companies of the national economy, social and other public institutions, the curricula are oriented on issues of technological, economic, property and capital security, on safety at work, protection of persons, fire protection and solution of overall emergency and crisis situations. Furthermore, they are oriented on environmental problems including the solutions of natural disasters and catastrophes, and specifically on the problems of critical phenomena in transport infrastructure, transport modes and logistics.

SK Participant Project Cost: EUR 13 240.01

SK Participant EC Financial Contribution: EUR 11 805.67

Project Outcomes planned/real: This project was designed to continue the work undertaken in the former project SSecurity REsearch Ncp network – Phase I (SEREN I), therefore the activities envisaged in this proposal are built upon the outcomes reached previously by the network.

At present, the main tool on which potential participants in security call for proposals rely on for building balanced consortia and for writing high quality proposals is the NCP network, and for that reason it is essential to reinforce the network's capability to cope with issues that might arise, especially with those which have a security-specific character.

To tackle and overcome the difficulties of building international partnerships and in order to foster the participation in the security research field, the network organized joint brokerage events and awareness campaigns with a focus on promoting good project ideas and on identifying ways and means for end-user involvement. To support these activities, special tools were developed and implemented as a security-tailored partner search system and matchmaking tool for competencies.

Security research in new aspects (policies, new programmes, conferences and workshops) is monitored and analysed to provide synthesized information to stakeholders at all levels (from NCP level to client level).

Bearing in mind that security in general is a very dynamic field, and that security research has been recently included in the Framework Programme and because it presents several particularities as compared to other themes, it is important that the Security NCPs project foresees activities focused on these particulars and specific elements.

Slovak Participant's Role in Project: Participation on:

- Creation of a handbook describing guidelines for providing NCP Services.
- Twinning scheme involving mentoring activities between less and more experienced NCPs, so that a "living" support is guaranteed towards less experienced NCPs.
- Training sessions, info days, brokerage events etc.
- Training for the newcomer NCPs and best practices exchange.
- Guidelines on how to write a good proposal (proposal/ EPSS/forms).
- Legal & financial issues (SME definition, IPR issues, Consortium Agreement).
- Ethical issues.
- Advanced FP training.
- Security-specific training.
- Inventory of security research competencies.
- Matchmaking tool development and implementation.
- SEREN 2 website and forum – improvement of SEREN – phase I website and forum
- E-learning tool and information system: <http://www.security-research-map.eu/index.php?file=list-all.php>
- Promotion (Dissemination and Exploitation) of the database.

SMART

Project ID: 261727

Project Title: Scalable Measures for Automated Recognition Technologies

Project website: <http://www.smartsurveillance.eu/>

Project Start Date: 2011-06-01

Project End Date: 2014-05-31

Project Total Cost: EUR 4 191 066.6

Project EC Financial Contribution: EUR 3 456 017.35

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

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Contact person email/ phone: prof. Ing. Dušan Šoltés, PhD., dusan.soltes@fm.uniba.sk, +421250117483

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GOTTFRIED WILHELM LEIBNIZ UNIVERSITAET HANNOVER - GERMANY

UNIVERZA V LJUBLJANI - SLOVENIA

RIJKSUNIVERSITEIT GRONINGEN - NETHERLANDS

UNIVERSITETET I OSLO - NORWAY

THE UNIVERSITY OF SHEFFIELD - UNITED KINGDOM

UNIVERSITY OF CENTRAL LANCASHIRE - UNITED KINGDOM

MASARYKOVA UNIVERZITA - CZECH REPUBLIC

UNIVERSITATEA BABES BOLYAI - ROMANIA

EDITH COWAN UNIVERSITY - AUSTRALIA

LAW AND INTERNET FOUNDATION - BULGARIA

UNIVERSITAET WIEN - AUSTRIA

METROPOLITAN POLICE SERVICE - UNITED KINGDOM

UNIVERSIDAD DE LEON - SPAIN

MORPHO - FRANCE

THE INTERNATIONAL CRIMINAL POLICE ORGANIZATION - FRANCE

LABORATORIO DI SCIENZE DELLA CITTADINANZA – LSC – ITALY

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-SLOVAKIA

Project Description: Automated recognition of individuals and/or pre-determined traits or risk factors/criteria lies at the basis of smart surveillance systems. Yet new EU regulations and specifically those regarding information sharing between police and security forces explicitly prohibit automated decision-taking regarding individuals unless “authorised by a law which also lays down measures to safeguard the data subject’s legitimate interests” (Art 7, CFD 2008/977/JHA). Which laws are applicable in this context? What measures are envisioned? What else should the law contain? Can the laws be technology-neutral but sector-specific, thus permitting a measured approach to the appropriateness of smart surveillance technologies in key security applications? Can they be extended to all security applications of smart surveillance, even those not covered by CFD 2008/977/JHA?

The SMART project addresses these and other questions taking a comprehensive approach which combines a technical review of key application areas by sector with a review of existing pertinent legislation to then produce a set of guidelines and a model law compliant with CFD 2008/977/JHA and EU Directive 46/95.

Project Objectives:

- Determine the state of the art and likely future trends of smart surveillance, its proportionality and impact on privacy in four key application area.

- Identify the dependency and vulnerability of smart surveillance on underlying technology infrastructures (especially telecommunications networks) and explore system integrity and privacy issues therein.

- Identify and explore smart surveillance and privacy issues in cyberspace.

- Map the characteristics of laws governing surveillance and identify lacunae/new safeguards as well as best practices.

- Map out characteristics of laws governing interoperability and data exchange and identify lacunae/new safeguards as well as best practices.

- Explore the attitudes and beliefs of citizens towards smart surveillance.

- Establish best-practice criteria developed on the basis of operational efficiency, established legal principles and citizen perceptions.

- Develop a toolkit for policy-makers, police and security forces to implement and promote the best practice approach, including the development of system design guidelines and a model law balancing privacy and security concerns which would be capable of pan-European application.

Profile of Slovak Participant/ -s: The Faculty of Management is one of the thirteen faculties at Comenius University, which is the oldest, largest and most renowned university in Slovakia. The faculty was established in 1991 and it specializes in teaching management and started working in the study field of management in Slovakia.

SK Participant Project Cost: EUR 151 360

SK Participant EC Financial Contribution: EUR 123 840

Project Outcomes planned/real: N/A

Slovak Participant’s Role in Project: N/A

SPICED

Project ID: 312631

Project Title: Securing the spices and herbs commodity chains in Europe against deliberate, accidental or natural biological and chemical contamination

Project website: http://www.bfr.bund.de/en/press_information/2013/21/spices_and_herbs__a_risk_free_taste_experience-187754.html

Project Start Date: 2013-07-01

Project End Date: 2016-06-30

Project Total Cost: EUR 4 586 455.6

Project EC Financial Contribution: EUR 3 499 942.35

Slovak participant Name: VYSKUMNY USTAV POTRAVINARSKY, Food Research Institute

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Partners of the Consortium:

BUNDESINSTITUT FUER RISIKOBEWERTUNG - GERMANY

UNIVERSITY OF LIMERICK - ÉIRE/IRELAND

OSTERREICHISCHE AGENTUR FÜR GESUNDHEIT UND ERNÄHRUNGSSICHERHEIT GMBH - AUSTRIA

PARTIKAS DROSIBAS, DZIVNIEKU VESELIBAS UN VIDES ZINATNISKAIS INSTITUTSBIOR - LATVIA

DI ANDREAS MOSER RTD SERVICES –RTDS - AUSTRIA

STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK - NETHERLANDS

WAGENINGEN UNIVERSITY - NETHERLANDS

BUNDESMINISTERIUM DER VERTEIDIGUNG - GERMANY

FUCHS GEWUERZE GMBH - GERMANY

KOZPONTI KORNYEZET- ES ELEMISZER-TUDOMANYI KUTATOINTEZET- HUNGARY

VYSKUMNY USTAV POTRAVINARSKY, FOOD RESEARCH INSTITUTE- SLOVAKIA

Project Description: The food chain security, from primary production to consumer-ready food from deliberate, accidental or natural (chemical, biological, radiological and nuclear) contamination stands in close correlation to food safety of herbs and spices.

Project Objectives: The major aim of "SPICED" is a thorough characterization of the heterogeneous spice and herb matrices and their respective intra- and interplant production and supply chain. Special attention should thus be paid to relevant biological and chemical hazards that can lead to major deliberate, accidental or natural contaminations in the food supply chain. Furthermore, the knowledge of biological hazard properties and on-site high-throughput diagnostic methods for their appropriate detection should be improved in order to avoid (industrial) chemical contamination and to guarantee the authenticity of spices and herbs by evaluation and optimization of non-targeted fingerprinting methods. A further focus of the project will be the improvement of the alerting, reporting and decontamination systems as well as the development of standard techniques to ensure prevention and response on a high-quality level. The consortium will evaluate the most

important spices and herbs that cause or could be used as natural, accidental or deliberate contaminants, depending on the consumed quantity and the relative frequency of natural or accidental contaminations. SPICED will focus on pathogens based on their frequency of natural occurrence, possible impact on human health and relevance for food terrorism.

Profile of Slovak Participant/ -s: Since January 1, 2014, the role of the Food Research Institute, which is part of the National Agricultural and Food Centre, established by the Ministry of Agriculture and Rural Development of the Slovak Republic, has been to perform basic and applied research and development activities in the fields of food chemistry, biotechnology and microbiology, molecular biology and genetics, analytical chemistry, as well as in the sectors of food hygiene and sanitation procedures. The majority of these activities are performed in close cooperation with food industry and also via active participation on many R&D project on national but also international level. Laboratories with most modern R&D infrastructure are located in the head-quarters of the Institute on Priemysel'na 4, Bratislava. The technological part of FRI Biocentre is located in Modra. It is a place where pilot semi-production scale experiments can be performed using the modern unit-operations principles – phase separator, distillation units, vacuum-concentrator units etc., enabling thus the modelling and verification of the individual food processing operations in a pilot scale. This establishment allows the direct tests and application of original results in real conditions of food producers.

The Institute is a leading and reputable authority in basic and applied food research in the areas of food chemistry and technology, microbiology, microbiological analysis and technology, food hygiene and sanitation, as well as ICT and food composition databases, enabling the qualified estimation of the toxicity risk assessment, and food composition calculations with respect to individual customers' demands and needs. Due to all these (and many other) activities, the Institute has obtained an excellent credit at home and abroad.

The Institute has built (and continues to improve) state-of-the-art infrastructure, laboratory equipment and instrumentation, technological and processing units, which has been obtained either using the Institute's resources, or gained as a result of participation in many national and international R&D projects and research task forces. Being very successful in acquiring resources from the European Regional and Development Funds as well as the Structural Funds of the EU in the past 5 years, a number of experimental high-tech devices and pieces of equipment were gained.

To conclude, state-of-the-art infrastructure as well as highly experienced staff indicate the orientation of the Institute to the following basic and applied research areas:

development of new analytical and microbiological methods for food safety control;

development of new/ innovative food production/ technological processes;

evaluation of the processes occurring in food during production and storage;

modelling of food composition, continuous update of the Slovak food composition and nutrition databases;

evaluation and monitoring of processes and practices affecting food safety;

research on good hygiene practices and sanitation systems;

study of the behaviour and mutual interactions of food ingredients in order to clarify the mechanisms of formation and elimination of substances with adverse effects on human health;

study of molecular-biological processes and their application in diagnostic procedures – detection of the pathogenic micro-organisms, GMOs, authentication, and adulteration of food.

Department of Microbiology, Molecular Biology and Biotechnology, National Agricultural and Food Centre - Food Research Institute. The microbiological research group at the department has worked in the field of molecular-biological identification of foodborne pathogens for more than 15 years. At the beginning of the development and application of alternative pathogen detection methods the group was invited to participate in its first international project, the COPERNICUS project, and was given the opportunity to purchase the first cyclor. Since then the group has been involved in several national and bilateral projects and has participated in 3 EU projects focused on the given field of interest. We have designated and validated a number of original conventional and real-time PCR systems for the detection and quantification of pathogenic foodborne microorganisms – Salmonella spp., Listeria monocytogenes, Escherichia coli. Citrobacter freundii/braakii, Staphylococcus aureus, Cronobacter spp., and nested-PCR for Cryptosporidium parvum, multiplex real-time PCR for S. aureus enterotoxins genes or for Cronobacter spp. thermoresistance marker. Laboratories of the Department are very well equipped for research in microbiology and molecular biology with fully furnished separate microbiological laboratories for the work with pathogens. We have deposited more than 800 well-identified bacterial strains. Other projects are based on the study of the microflora of traditional Slovak food products (Slovak bryndza cheese, wine etc.) and the study and development of PCR-based methods for identification of allergens in food (walnuts, hazelnuts, peanuts, cashew nuts, pistachio nuts, macadamia nuts, Brazil nuts, celery etc.) and components of plant origin active in food intolerance (gluten-containing cereals).

SK Participant Project Cost: EUR 165 998.4

SK Participant EC Financial Contribution: EUR 126 865.6

Project Outcomes planned/real: Planned outcomes are: database of selected agents, matrices, processes and standard inclusion rates, a model for predictive microbiology, report on production and supply chains for selected spices and herbs, recommendation for sampling protocols, a report on critical vulnerable points in production and supply chains for selected spices and herbs, report of extraction, purification and detection procedures, report of ring trial, guidelines for distinguishing between natural and intentional incidents, recommendations for implementation of newly-available detection methods, organization of workshops and publications. Real outcomes are not yet available, as the project started in July 2013.

Slovak Participant's Role in Project: Our role is based on participation in tasks of development and evaluation of rapid qualitative and quantitative on-site detection/ screening methods for biological contaminants; out further task is the adaptation and optimization of sample preparation and detection methods and rapid implementation of new methods on the market.

THE HOUSE

Project ID: 285099

Project Title: Enhancing European Coordination for National Research Programmes in the Area of Security at Major Events

Project website: <http://www.thehouse-majorerevents.org/>

Project Start Date: 2012-03-01

Project End Date: 2014-02-28

Project Total Cost: EUR 3 105 925.27

Project EC Financial Contribution: EUR 2 774 300

Slovak participant Name: MINISTERSTVO VNUTRA SLOVENSKEJ REPUBLIKY, Ministry of Interior of the Slovak Republic

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Partners of the Consortium:

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MINISTERE DE L'INTERIEUR - FRANCE

METROPOLITAN POLICE SERVICE - UNITED KINGDOM

HUNGARIAN MINISTRY OF INTERIOR - HUNGARY

POLIISIAMMATTIKORKEAKOULU - SUOMI/FINLAND

MINISTRY OF ADMINISTRATION AND INTERIOR - ROMANIA

CYPRUS POLICE - CYPRUS

RIKSPOLISSTYRELSEN - SWEDISH NATIONAL POLICE BOARD - SWEDEN

ACADEMY OF THE MINISTRY OF INTERIOR BULGARIA - BULGARIA

CENTER FOR SECURITY STUDIES - GREECE

DEUTSCHE HOCHSCHULE DER POLIZEI - GERMANY

BUNDESMINISTERIUM FUER INNERES - AUSTRIA

WYZSZA SZKOLA POLICJI W SZCZYTNI - POLAND

MINISTRY OF THE INTERIOR OF THE REPUBLIC OF LITHUANIA - LITHUANIA

AN GARDA SIOCHANA - ÉIRE/IRELAND

MINISTRSTVO ZA NOTRANJE ZADEVE - SLOVENIA

NATIONAL POLICE DEPARTMENT - DENMARK

MINISTRY OF THE INTERIOR - ESTONIA

MINISTERIO DEL INTERIOR - SPAIN

MINISTRY OF THE INTERIOR OF THE REPUBLIC OF LATVIA - LATVIA

MINISTRY OF JUSTICE - NETHERLANDS

MALTA POLICE FORCE - MALTA

MINISTERO DELL'INTERNO - ITALY

MINISTERIO DA ADMINISTRACAO INTERNA - PORTUGAL

MINISTERSTVO VNUTRA SLOVENSKEJ REPUBLIKY, MINISTRY OF INTERIOR OF THE SLOVAK REPUBLIC - SLOVAKIA

Project Description: Enhancing European Coordination for National Research Programmes in the Area of Security at Major Events - THE HOUSE - is aimed at strengthening the ERA in Major Event security by applying research coordination tools/methodologies developed during seven years of research activity within the projects EU-SEC and EU-SEC II. THE HOUSE is built on the assumption that Major Events are windows of opportunity to increase inter-agency/intra-agency coordination at national and regional level and they are suitable to have a long-lasting legacy on the national security planning of the hosting countries. Capitalising on the existing EU-SEC II platform of cooperation, THE HOUSE gathers a wide Consortium of 24 national public end-users.



Project Objectives: The main Consortium's goal is to achieve a harmonised implementation approach to security research in the field of Major Events in Europe via the European House of Major Events Security (the House). Partners will benefit from the coordinated research resulting from the application of the House coordination tools/methodologies to specific Major Events in Europe in terms of provision of a common European taxonomy, planning and evaluation standards elaborated to respond to the specific needs of the security end-user groups.

In addition, THE HOUSE will foster advancement towards the adoption of a common policing approach across Europe and will facilitate the practical implementation of the most recent EU policies in the field, such as the Stockholm Programme.

As a complementary action, the proposed Consortium envisages studying the most appropriate framework to render the House a lasting European tool and seeks to identify a European Coordinator for Major Events.

Finally, the training services and dissemination activities undertaken by THE HOUSE will ensure that its results are distributed widely, raising awareness among security policy-makers and ensuring the promotion and adoption of a common policing approach.

Profile of Slovak Participant/ -s: The Ministry of Interior of the Slovak Republic (PIC 999825852) has been involved in the EUSEC II project since its beginning as a formal beneficiary, but all research, management, organisations and account activities have been implemented by Academy of the Police Force in Bratislava (PIC 961366322) since the kick-off meeting. Academy of the Police Force in Bratislava was established by the Slovak National Council in 1992 as a Higher Education Institution. The Academy carries out its mission by providing university training for Bachelors and conducting research in security services and specializations thereof. After a qualified teaching and research staff was introduced and international co-operation was established, the Academy was granted competences for offering Master study programmes and rigorous proceedings, doctoral study programme in research field policing and habilitation and inauguration ceremonies for the appointment of professors. After the year 2000 the Academy focused on the accreditation of study programs with a credit system and three-degree university education. Since 2004, the Academy has been entitled to run study programs Security-law protection of people and property in the Bachelor, Master and Doctoral degrees and study programs Security-law services in public administration in Bachelor and Master Degrees. From 2006 the Academy has been entitled to perform habilitation and inauguration ceremonies for the appointment of professors in the study field Protection of people and property. In 2007 the Academy submitted to an evaluation carried out by the European University Association, which positively assessed the Academy's activities, strategy and procedures and stated that the quality of education in the Academy complies with international criteria of university training.

SK Participant Project Cost: EUR 72 448.6

SK Participant EC Financial Contribution: EUR 64 600

Project Outcomes planned/real: The House has been developing its method, network and services over a ten year period. The Academy of Police Forces in Bratislava representing the Slovak Republic in The House Project as a platform for the coordination of major events security research in Europe. The project, which has involved 24 and later 26 European Union Member States, was implemented from March 2012 to May 2014. It is the follow-up to two previous European Commission funded projects, EU-SEC and EU-SEC II. Coordinated by the United Nations Interregional Crime and Justice Research Institute (UNICRI), the project aims to achieve coordination in the security planning of major events in Europe and contribute towards the adoption of a common policing approach at the European Union level. The process of "testing" these standards as common EU standards involved the project partners attending the "associated events" and discussing the standards of The House in relation to accepted national practice. After a consultation process with the project partners, during which over 30 major events were considered, eight major events were chosen. Particular importance was attached to achieving a balance between sports competitions, mass gatherings and political summits, as the planning challenge presented to security planners by each of these events differs greatly. One of the subjects was Rainbow March taking place in September 2013 in Slovakia. In conclusion, the points that have emerged from consortium discussion concerning the continuation of The House as a contributor to the development of common standards and policies for Major Event Security Planning in Europe are part of the outcomes.

Slovak Participant's Role in Project: The process of "testing" evaluation standards as common EU standards involved the project partners attending the "associated events" and discussing the standards of The House in relation to accepted national practice. After a consultation process, eight major events were chosen. One of subjects was Rainbow March taking place in September 2013 in Slovakia. The "association" of Rainbow March to the project involved a meeting of the project partners with the Slovak security planners of the chosen event in order to present the standards of The House. The subsequent discussion/consultation process helped to determine gaps and/or overlaps between The House standards and those applied nationally. The dual goals of this process are on the one hand to assess the impact of the standards as common European planning and evaluation standards; and on the other hand, to assess their potential impact on EU security priorities (the Stockholm Programme and the EU Internal Security Strategy). The results of the consultation with national security planners were recorded and will form the basis of final project reports. On the basis of these reports, a set of User Guidelines is being drafted to complement the Manual published at the end of the project; these guidelines will contain practical information for major events security planners and other security practitioners on how to make full use of The House and its services.

1. Specific programme
COOPERATION

1.11 General Activities (GA)



ERNEST

Project ID: 219438

Project Title: European Research Network on Sustainable Tourism

Project website: <http://www.ernestproject.eu/coalap/pages-ernest/home.jsf>

Project Start Date: 2008-09-01

Project End Date: 2012-08-31

Project Total Cost: EUR 2 106 965.96

Project EC Financial Contribution: EUR 1 911 677.46

Slovak participant Name: Agency for the support of regional development Kosice

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Partners of the Consortium:

REGIONE TOSCANA – ITALY

PREFECTURE OF ILIA - HELLENIC REPUBLIC – GREECE

LA CITE EUROPEENNE DE LA CULTURE ET DU TOURISME DURABLE – FRANCE

BASQUETOUR TURISMOAREN EUSKAL AGENTZIA - AGENCIA VASCA DE TURISMO – SPAIN

REGION OF WESTERN GREECE – GREECE

AGENTIA PENTRU DEZVOLTARE REGIONALA SUD-EST ROMANIA – ROMANIA

GOVERN DE LES ILLES BALEARS - DIRECCIO GENERAL DE RECERCA
DESENVOLUPAMENT TECNOLOGIC I INNOVACIO – SPAIN

SOUTH WEST TOURISM LIMITED - UNITED KINGDOM

DANISH FOREST AND NATURE AGENCY NORTH ZEALAND – DENMARK

DEPARTAMENT D'INNOVACIO, UNIVERSITATS I EMPRESA – SPAIN

CONSEIL REGIONAL D'AQUITAINE- FRANCE

REGIONE EMILIA ROMAGNA – ITALY

REGIONE DEL VENETO - ITALY

WELSH ASSEMBLY GOVERNMENT - UNITED KINGDOM

ANAPTIXIAKI ETAIRIA PERIPHERIAS DITIKIS ELLADOS ANONIMI ETAIRIA OTA – GREECE

AGENCY FOR THE SUPPORT OF REGIONAL DEVELOPMENT KOSICE- SLOVAKIA

NORDA ESZAK-MAGYARORSZAGI REGIONALIS FEJLESZTESI UGYNOKSEG KOZHASZNU
NONPROFIT KORLATOLT FELELODDEGU TARSASAG – HUNGARY

Project Description: The ERNEST European Research Network on Sustainable Tourism project will address the issue of sustainable development in tourism through coordination and collaboration among regional research programmes. ERNEST will be a horizontal ERA NET action, not directly linked to one specific cooperation theme but with much European added value. The overall objective is to develop and strengthen a framework for coordinating regional research programmes on sustainable tourism. Within this platform regions will share and build on research work already underway at regional level, making it more productive and efficient through exchange and planning and implementation of joint activities.

Project Objectives: The specific objectives are as follows: identify and exchange information and knowledge on research programmes that regions wish to coordinate; identify within the research programmes elements related to social dialogue (participative processes for programming including all relevant stakeholders) and measurement of tourism impact; define and prepare joint research activities on tourism research; implement joint activities in these fields according to common needs, particularly concentrating on training, exchange and evaluation at an interregional level; fund joint interregional research on sustainable tourism through joint calls; promote productive cooperation and collaboration in research both in terms of interregional cooperation and cooperation at regional level, including public private partnerships; allow partners to define together long-term and ambitious strategies in line with the European Union policy of sustainable development that each region could not easily reach on its own.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 24 288

SK Participant EC Financial Contribution: EUR 21 656.8

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

1. Specific programme
COOPERATION

*1.12 Joint Technology
Initiatives- (JTI)*



E2COGAN

Project ID: 324280
Project Title: Energy Efficient Converters using GaN Power Devices
Project website: <http://www.e2cogan.eu/>
Project Start Date: 2013-04-01
Project End Date: 2016-03-31
Project Total Cost: EUR 26 271 910
Project EC Financial Contribution: EUR 3 940 788

SLOVAK PARTICIPANT 1

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SLOVAK PARTICIPANT 2

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Partners of the Consortium:

ON SEMICONDUCTOR BELGIUM BVBA - BELGIUM
NXP SEMICONDUCTORS – BELGIUM, NETHERLANDS, UNITED KINGDOM
STMICROELECTRONICS - ITALY
CIRTEM - FRANCE
EPIGAN NV - BELGIUM
CISC SEMICONDUCTOR GMBH - AUSTRIA
EADS - FRANCE
MICROWAVE CHARACTERIZATION CENTER SAS (MC2) - FRANCE
CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LA NANOELETRONICA (IUNET) - ITALY
UNIVERSITÄT KASSEL - GERMANY
CEA-LETI COMMISSARIAT À L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE
FRAUNHOFER IMS INSTITUT F. MIKROELEKTRONISCHE SCHALTUNGEN U. SYSTEME - GERMANY
FRAUNHOFER IZM INSTITUT FÜR ZUVERLÄSSIGKEIT UND MIKROINTEGRATION - GERMANY
FRAUNHOFER IISB INSTITUT FÜR INTEGRIERTE SYSTEME UND BAUELEMENTTECHNOLOGIE - GERMANY
UNIVERSITY OF BRISTOL - UNITED KINGDOM
SYNOPSIS SWITZERLAND LLC - SWITZERLAND
BITRON SPA (BIT) - ITALY
SCHNEIDER ELECTRIC (SE) - GERMANY
AZZURRO - GERMANY
ROBERT BOSCH GMBH - GERMANY
TECHNICAL UNIVERSITY OF EINDHOVEN - NETHERLANDS
AUDI AG - GERMANY
NANO DESIGN S.R.O.- SLOVAKIA
SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: Efficient power conversion systems are at the heart of the worldwide effort for a green economy, since they can minimize losses and save energy and contribute thus to achieve a better CO2 balance sheet. Semiconductor power devices are a central part of any power conversion circuit and are ubiquitous in our daily lives: they transform voltages for a multitude of appliances, such as from the 220V AC mains to a 12V DC end-user appliance and enable to convert from DC (such as a battery in an electric car) to AC (such as a motor drive) and vice versa. Highly efficient power switching devices are a key for successful introduction of full electric vehicles into the market. E2COGAN will target the demonstration of GaN-on-Si as a disruptive high voltage (HV) technology and High Electron Mobility Transistors through the whole value chain up to demonstrators with high industrial, societal and environmental relevance. Aims are higher efficiency, higher switching frequency, smaller footprint and weight and competitive cost on system level with respect to Si or SiC.

Project Objectives: Project demonstrators will focus on two principle application domains with strategic relevance:

1. First, on Photovoltaic (PV), where the use of GaN will be explored in micro-grid interfacing circuits evaluating an overall gain in system efficiency and operating cost over incumbent Si- or competing SiC-based solutions.
2. Second, on Automotive, where the benefit of GaN will be investigated in grid-connected chargers for high voltage batteries, as found in new hybrid and full electric vehicles.
 - Beyond this will be an early study on Aeronautics with specific high temperature (250°C) mission profiles as well as the atmospheric radiation constraint.
 - Initial development will focus on 600V, 10A GaN power devices with higher voltages (1500V) and currents (100A) towards the end of the project, giving priority to applications below 10kW.
 - Special attention will be paid to reliability and parasitic effects, investigated through advanced electro/optical measurements and electro/thermo/mechanical TCAD simulations, in order to identify the safe operating area and to develop a robust and reliable GaN-on-Si power device technology platform.
 - Packages and modules will be developed to allow high frequency and/or high temperature operation. This will include the design and implementation of the necessary gate drivers.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A
SK Participant Project Cost: EUR 270 000
SK Participant EC Financial Contribution: EUR 45 000
Project Outcomes planned/real: N/A
Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A
SK Participant Project Cost: EUR 300 000
SK Participant EC Financial Contribution: EUR 45 000
Project Outcomes planned/real: N/A
Slovak Participant's Role in Project: N/A

E2SG

Project ID: 296131
Project Title: ENERGY TO SMART GRID
Project website: <http://www.e2sg-project.eu/>
Project Start Date: 2012-04-01
Project End Date: 2015-03-01
Project Total Cost: EUR 34 032 714
Project EC Financial Contribution: EUR 5 683 465

SLOVAK PARTICIPANT 1

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SLOVAK PARTICIPANT 2

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STMICROELECTRONICS ITALY - ITALY
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HERA S.P.A - ITALY
EFFEGI ELETTRONICA - ITALY
POLIMODEL - ITALY
CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LA NANOELETRONICA - ITALY
POLITECNICO DI TORINO - ITALY
UNIVERSITÀ DI BOLOGNA - ITALY
UNIVERSITÀ DELLA CALABRIA - ITALY
UNIVERSITÀ DI CATANIA - ITALY
AMS (FORMERLY AUSTRIAMICROSYSTEMS) - AUSTRIA
ON SEMICONDUCTOR - BELGIUM
NFINEON AG - GERMANY
NXP GERMANY - GERMANY
FRAUNHOFER IISB - GERMANY
RWTH AACHEN UNIVERSITY - GERMANY
IQUADRAT - SPAIN
LEITAT - SPAIN
CENTRE TECNOLÒGIC DE TELECOMUNICACIONS DE CATALUNYA - SPAIN
HELIOX - NETHERLANDS
NXP SEMICONDUCTORS - NETHERLANDS
INSTITUTO DE TELECOMUNICAÇÕES - PORTUGAL
ENECSYS - UNITED KINGDOM
IQE - UNITED KINGDOM
SILVACO - UNITED KINGDOM
UNIVERSITY OF SHEFFIELD - UNITED KINGDOM
TP VISION - THE NETHERLANDS
KIEBACK & PETER – GERMANY
SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA
R-DAS S.R.O. - SLOVAKIA

Project Description: The reduction of the energy consumption is a social challenge – as contribution to the climate change and to secure resources for the future. Therefore on the European level, the 20-20-20 target was put forward to improve the efficiency and performance of the global energy system and supply chain. It is the intention to achieve a 20% increase in energy efficiency, 20% share of renewable energies and a 20% decrease in CO2 emissions by 2020. This target is supported by the transformation of today's power grid to an intelligent grid, the so-called smart grid. It enables a more efficient use of the available energy and helps to significantly reduce the consumption of private, industrial and public consumers. The project E2SG – “Energy to Smart Grid” - was defined to devise and design mechanisms and policies to assemble, monitor and control smart grids, i.e. a set of interconnected nodes whose primary goal is to generate, exchange and consume electrical energy in the most efficient and reliable way by exploiting distributed information that is sensed, transmitted and processed over the same set of nodes and links.

Project Objectives: E2SG aims at developing and demonstrating key enabling technologies in the following fields
node-grid interfaces – especially between generating nodes and the grid
grid-sensing/metering – to collect the information needed for management and control
over-the-grid communication – to effectively carry sensing and control information where it is needed
grid-topology and control – to understand and design connection-induced behaviours improving reliability and to control (local) energy production/distribution by exploiting advanced storage policies and
energy routing – to develop flexible and efficient mechanism to transmit energy between nodes, e.g., by properly choosing AC or DC links depending on temporary operating conditions for power consumption.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A
SK Participant Project Cost: EUR 294 000
SK Participant EC Financial Contribution: EUR 49 098
Project Outcomes planned/real: N/A
Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A
SK Participant Project Cost: EUR 300 000
SK Participant EC Financial Contribution: EUR 50 100
Project Outcomes planned/real: N/A
Slovak Participant's Role in Project: N/A

END

Project ID: 120214

Project Title: Models, Solutions, Methods and Tools for Energy Aware Design

Project website: <http://www.eniac-end.org/>

Project Start Date: 2010-04-01

Project End Date: 2013-03-01

Project Total Cost: EUR 13 129 523

Project EC Financial Contribution: EUR 2 192 631

SLOVAK PARTICIPANT 1

Slovak participant Name: ON Semiconductor Slovakia, a.s.

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SLOVAK PARTICIPANT 2

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Partners of the Consortium:

STMICROELECTRONICS S.R.L. - ITALY

CENTRO RICERCHE FIAT S.C.P.A. - ITALY

ETH LAB, S.R.L. - ITALY

NUMONYX ITALY - S.R.L. - ITALY

CONSORTIO NAZIONALE INTERUNIVERSITARIO PER LA NANOELETRONICA - ITALY

POLITECNICO DI TORINO - ITALY

ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA - ITALY

UNIVERSITÀ DEGLI STUDI DI CATANIA - ITALY

UNIVERSITÀ DEGLI STUDI DI SALERNO - ITALY

NXP SEMICONDUCTORS N.V. - NETHERLANDS

INTRACOM S.A. TELECOM SOLUTIONS - GREECE

INACCESS NETWORKS S.A. - GREECE

UNIVERSITY OF PATRAS - GREECE

ON SEMICONDUCTOR BELGIUM BVBA - BELGIUM

ON SEMICONDUCTOR SLOVAKIA, A.S. - SLOVAKIA

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA) - SLOVAKIA

Project Description: MAS focus on the development of an integrated approach for the areas of health monitoring and therapy support at home, and mobile health, wellness and fitness. The systems are intended for remote patient supervision using multi parameter biosensors and secure communication networks, and health & wellness monitoring in the home environment. The mixed healthcare and consumer markets will be targeted with MAS-platform-based devices with five application demos:

- 1: Health and Activity Monitor
- 2: Point of Care Terminal and Gateway
- 3: Cardiovascular Monitor
- 4: Diabetes Monitor
- 5: Mobile Cardiotocography.

Project Objectives: The objective of MAS is to develop a common communication platform and nanoelectronics circuits for health and wellness applications to support the development of flexible, robust, safe and inexpensive mobile AAL systems, to improve the quality of human life and improve the well-being of people.

In this context, reference architectures will be defined in order to enable system development from devices to complete mobile AAL systems, and to enable cooperative clusters of such systems for specific environments and applications.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 380 000

SK Participant EC Financial Contribution: EUR 63 460

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 276 000

SK Participant EC Financial Contribution: EUR 46 092

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ERAMP

Project ID: 621270

Project Title: Excellence in Speed and Reliability for More Than Moore Technologies

Project website:

Project Start Date: 2014-04-01

Project End Date: 2017-04-01

Project Total Cost: EUR 55 231 847.18

Project EC Financial Contribution: EUR 8 284 777

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

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HSEB DRESDEN GMBH- GERMANY

INFINEON TECHNOLOGIES AG- GERMANY

ROBERT BOSCH GMBH- GERMANY

SGS INSTITUT FRESENIUS GMBH- GERMANY

SIEMENS AG- GERMANY

SYSTEMA SYSTEMENTWICKLUNG DIPL.-ING. MANFRED AUSTEN GMBH- GERMANY

OSRAM GMBH- GERMANY

TECHNISCHE UNIVERSITÄT DRESDEN- GERMANY

WESTSÄCHSISCHE HOCHSCHULE ZWICKAU- GERMANY

AMS AG- AUSTRIA

CISC SEMICONDUCTOR GMBH- AUSTRIA

INFINEON TECHNOLOGIES AUSTRIA AG- AUSTRIA

INFINEON TECHNOLOGIES IT-SERVICES GMBH- AUSTRIA

JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFTMBH- AUSTRIA

LANTIQ A GMBH- AUSTRIA

MATERIAL CENTER LEOBEN FORSCHUNG GMBH- AUSTRIA

NXP SEMICONDUCTORS AUSTRIA GMBH- AUSTRIA

POLYMER COMPETENCE CENTER LEOBEN GMBH- AUSTRIA

TECHNISCHE UNIVERSITÄT WIEN- AUSTRIA

UNIVERSITÄT INNSBRUCK- AUSTRIA

SPTS TECHNOLOGIES LTD- UNITED KINGDOM

NXP SEMICONDUCTORS NETHERLANDS BV- NETHERLANDS

STICHTING IMEC NEDERLAND- NETHERLANDS

INFINEON TECHNOLOGIES ROMANIA & CO.- ROMANIA

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: eRamp will strengthen Europe's leadership in power semiconductors by addressing (a) methodology research and (b) product development. Clear emphasis is put on fast and reliable product behavior by learning in European pilot line environments to get fast feedback for the development process. In addition, eRamp will enable the realization of innovative MtM devices by development of innovative process and manufacturing chains. Research will focus on enhanced, next generation, MtM semiconductor product ramp-ups, dedicated to energy efficient power, MEMS and 3D based applications. Power chip technologies based on 300mm wafer diameter will be enforced by

combining them with advanced assembly and interconnect technologies based on chip embedding.

eRamp are complementary pilot line activities tailoring special solutions for design and competitive

production of energy efficient MtM semiconductors. The expected solutions will be demonstrated

along the value chain, in manufacturing and in application, from design to product.

- New methods to perform early and advanced learning's from existing pilot lines to extract device characterization data and enhance design base for first time right ramp-up.
- New approaches for fast learning in pilot lines, such as visualization and testing approaches for failure detection and localization during production (chip, package and application) e.g. Monte Carlo simulations.
- Research on cloud based principles of circuit simulation methods capable to handle complex circuits and large number of influencing parameters in significantly reduced runtime.
- New design and testing tools for forecast and efficient yield learning.
- New efficient power management solutions in the selected application areas.
- Advanced, competitive and sustainable technologies in Europe for heterogeneous packaging solutions, proven on low volume pilot line production.

In the application domains at least three types of demonstrators will be addressed: one for energy-efficient motor drives; one in the healthcare domain and one in the LED lighting domain.

Project Objectives: eRamp aims to set an innovative step forward to strengthen Europe's leading position in MtM semiconductor technologies and MtM manufacturing capabilities relating to energy efficient electronic solutions. Fast time-to-market and further improved reliability of MtM semiconductor products will significantly strengthen the position of European electronic industry in energy efficient solutions for automotive and industrial applications.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 350 000

SK Participant EC Financial Contribution: EUR 52 500

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ERG

Project ID: 270722

Project Title: Energy for a Green Society: From Sustainable Harvesting to Smart Distribution. Equipments, Materials, Design Solutions and their Applications

Project website: <http://www.eniac-erg.org/>

Project Start Date: 2011-06-01

Project End Date: 2014-05-01

Project Total Cost: EUR 25 711 684

Project EC Financial Contribution: EUR 4 293 852

SLOVAK PARTICIPANT 1

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APPLIED MATERIALS ITALIA - ITALY
COMPEL ELECTRONICS S.P.A. - ITALY
CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LA NANOELETRONICA - ITALY
POLITECNICO DI TORINO - ITALY
UNIVERSITÀ DI BOLOGNA - ITALY
UNIVERSITÀ DELLA CALABRIA - ITALY
UNIVERSITÀ DI CATANIA - ITALY
CONSIGLIO NAZIONALE DELLE RICERCHE - ISTITUTO PER LA MICROELETRONICA E MICROSISTEMI - ITALY
ELETTRA-SINCROTRONE - ITALY
ON SEMICONDUCTOR BELGIUM BVBA - BELGIUM
TELEFUNKEN - GERMANY
FRAUNHOFER GESELLSCHAFT – IIS - GERMANY
RWTH AACHEN - GERMANY
INFINEON TECHNOLOGIES AG - GERMANY
SMA SOLAR TECHNOLOGY AG - GERMANY
TECHNISCHE UNIVERSITÄT CHEMNITZ - GERMANY
LEITAT TECHNOLOGICAL CENTER - ACONDICIONAMIENTO TARRASENSE - SPAIN
SOLARPRINT LIMITED - IRELAND
TYNDALL NATIONAL INSTITUTE - IRELAND
NXP SEMICONDUCTORS - NETHERLANDS
BOSCHMAN TECHNOLOGIES - NETHERLANDS
ENECYS - UNITED KINGDOM
UNIVERSITY OF SHEFFIELD - UNITED KINGDOM
ELEC-CON TECHNOLOGY GMBH – GERMANY

POWERTEC S.R.O.- SLOVAKIA

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: The research, development and demonstration activities planned for the ERG project focus on the solar energy supply chain, starting from solar cells and proceeding along with innovative energy extraction (harvesting) techniques, high efficiency power conversion and finally managing the energy distribution inside a smart grid, with the target of different classes of applications, from house to small area, as well as application specific “local grid” (healthcare, automotive, etc).

Project Objectives: The ERG project will develop innovative solutions to enhance the solar energy value-chain by means of a more efficient energy management from high performance PV cells to power conversion, intelligent drive control, power delivery and interface to smart-grid. The project targets the transversal Sub-Programme SP3: Energy Efficiency.

SP3 deals with the development of innovative technologies and components, which are the basis for new energy efficient products and intelligent power management to allow increased competence in these emerging lead markets in line with the ‘sustainability’ objective. Efficient generation, distribution and intelligent control of energy can reduce electrical energy consumption in Europe by 20% to 30% until 2020 and CO2 emission in the same order of magnitude in order to achieve the Kyoto protocol targets and to limit the energy cost increase.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 300 000

SK Participant EC Financial Contribution: EUR 50 100

Project Outcomes planned/real: N/A

Slovak Participant’s Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 300 000

SK Participant EC Financial Contribution: EUR 50 100

Project Outcomes planned/real: N/A

Slovak Participant’s Role in Project: N/A

MAS

Project ID: 120228

Project Title: Nanoelectronics for Mobile AAL Systems

Project website: <http://www.mas-aal.eu/>

Project Start Date: 2010-04-01

Project End Date: 2013-03-01

Project Total Cost: EUR 27 386 185

Project EC Financial Contribution: EUR 4 573 493

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)- SLOVAKIA

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T-SYSTEMS INTERNATIONAL GMBH - GERMANY
FRIEDRICH-ALEXANDER-UNIVERSITY ERLANGEN-NUREMBERG - GERMANY
LEIBNIZ UNIVERSITÄT HANNOVER - GERMANY
THE FRAUNHOFER INSTITUTE FOR APPLIED INFORMATION TECHNOLOGY FIT - GERMANY
CHARITÉ – UNIVERSITÄTSMEDIZIN BERLIN - GERMANY
PHILIPS ELECTRONICS NEDERLAND BV - NETHERLANDS
TP VISION - NETHERLANDS
EVALAN BV - NETHERLANDS
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TECHNICAL UNIVERSITY VIENNA - AUSTRIA
SIEMENS AG ÖSTERREICH - AUSTRIA
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DANUBE MOBILE COMMUNICATION ENGINEERING GMBH & CO KG - AUSTRIA
MEDICAL UNIVERSITY OF GRAZ - AUSTRIA
STIFTELSEN SINTEF - NORWAY
ZIMMERTECH AS - NORWAY
GE VINGMED ULTRASOND - NORWAY
CZECH TECHNICAL UNIVERSITY IN PRAGUE - CZECH REPUBLIC
INSTITUT MIKROELEKTRONIKÝCH APLIKACÍ S.R.O - CZECH REPUBLIC
BRNO UNIVERSITY OF TECHNOLOGY - CZECH REPUBLIC
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IMB-CNM - SPAIN
LEITAT TECHNOLOGICAL CENTER - SPAIN
EQUALID - SPAIN
INTEL MOBILE COMMUNICATIONS GMBH - GERMANY
OBERTHUR TECHNOLOGIES - FRANCE
SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: MAS focus on the development of an integrated approach for the areas of health monitoring and therapy support at home, and mobile health, wellness and fitness. The systems are intended for remote patient supervision using multi parameter biosensors and secure communication networks, and health & wellness monitoring in the home environment. The mixed healthcare and consumer markets will be targeted with MAS-platform-based devices with five application demos:

- 1: Health and Activity Monitor
- 2: Point of Care Terminal and Gateway
- 3: Cardiovascular Monitor
- 4: Diabetes Monitor
- 5: Mobile Cardiotocography.

Project Objectives: The objective of MAS is to develop a common communication platform and nanoelectronics circuits for health and wellness applications to support the development of flexible, robust, safe and inexpensive mobile AAL systems, to improve the quality of human life and improve the well-being of people.

In this context, reference architectures will be defined in order to enable system development from devices to complete mobile AAL systems, and to enable cooperative clusters of such systems for specific environments and applications.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 324 000

SK Participant EC Financial Contribution: EUR 54 108

Project Outcomes planned/real: N/A

Slovak Participant’s Role in Project: N/A

SAFESENS

Project ID: 621272

Project Title: Sensor technologies enhanced safety and security of buildings and its occupants

Project website: <http://eniac-safesens.eu/>

Project Start Date: 2014-04-01

Project End Date: 2017-04-01

Project Total Cost: EUR 19 835 418

Project EC Financial Contribution: EUR 2 975 313

SLOVAK PARTICIPANT 1

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SLOVAK PARTICIPANT 2

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

Slovak participant Address: Vazovova 5, 812 43 Bratislava

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Partners of the Consortium:

NXP SEMICONDUCTORS BELGIUM NV - BELGIUM

VERHAERT NEW PRODUCTS & SERVICES - BELGIUM

XENICS NV - BELGIUM

NXP SEMICONDUCTORS NEDERLAND BV - NETHERLANDS

ADVANCED PACKAGING CENTER BV - NETHERLANDS

STICHTING IMEC - NETHERLANDS

TECHNISCHE UNIVERSITÄT BERLIN - GERMANY

NXP SEMICONDUCTORS GERMANY - GERMANY

ROBERT BOSCH GMBH - GERMANY

MINIMAX GMBH & CO. KG - GERMANY

APPLIEDSENSOR GMBH - GERMANY

TECHNISCHE UNIVERSITÄT ILMENAU - GERMANY

INSTITUTE FOR BIOENGINEERING OF CATALONIA - SPAIN

UNIVERSITY COLLEGE CORK, NATIONAL UNIVERSITY OF IRELAND, CORK - IRELAND

UNITED TECHNOLOGIES RESEARCH CENTRE IRELAND, LTD. - IRELAND

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA) - SLOVAKIA

LOX TECHNOLOGIES, S.R.O. - SLOVAKIA

SINTEF - NORWAY

NORSK ELEKTRO OPTIKK A.S. - NORWAY

Project Description: SAFESENS will bring innovations beyond state-of-the-art into the application sphere of gas detection and monitoring systems, which are used as safety devices to detect fire events or to alert building occupants and safety workers to the potential danger of poisoning by toxic gas exposure, suffocation due to lack of oxygen and fire or explosion by combustible gases.

SAFESENS addresses the challenges of the call by enabling technologies for trust, security and safety with the particular development of embedded sensor technologies for security and safety. By co-integrating multiple gas and presence detection technologies SAFESENS will also address competitiveness through semiconductor process differentiation and create opportunities in System-in-Package. In addition, the project has links to the home healthcare domain as the addition of multiple gas and presence detection technologies in fire sensors will improve the monitoring of people in their homes.

SAFESENS will demonstrate and validate the developed sensor technologies under two demonstrators: (1) a fire safety system composed of multiple wireless gas and presence detection sensors and (2) a multimodal wristband able to monitor first responder vital signs and indoor locations. The final SAFESENS demonstrators will perform early detection of fire (~5x faster), reduce the number of false alarms to less than 1 %, provide a form factor of ~1 cm³ and reduce power consumption by a factor of 10. In addition, the demonstrators will be able to provide building occupancy maps and first responder locations for facilitating rescue operations.

Project Objectives: The main objective of the SAFESENS project is to obtain earlier and more reliable fire detection in combination with accurate occupancy detection by co-integrating multiple gas sensor and presence detection technologies in both building safety systems and personal monitors.

More specifically, the SAFESENS project will:

- Enable early detection of fire by measuring multiple gases (e.g. VOC, CO₂, CO) and increasing fire detection reliability by interpreting measured data with sensor fusion algorithms.
- Co-integrate gas sensors with presence detection technology (i.e. micro-bolometer) for HABA systems and generate fire propagation and building occupancy maps for efficient evacuation planning.
- Create new gas detectors that are wearable and localizable (i.e. a personal health monitor for rescue workers with inertial and RF localization technologies)

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: LOX Technologies, based in Bratislava, Slovakia, provides embedded systems, performance computing solutions and electrophysical simulations. Founded in 1997, LOX Technologies gained experience in numerous embedded platforms like MICROCHIP PIC, dsPIC, ATMEL AVR, TEXAS INSTRUMENT C5000, C6000 and MSP430, ALTERA FPGAs and many others. Mixed-signal electronic circuitry with analog signal conditioning and analog/digital frontends is regularly integral part of our designs. LOX Technologies realizes complete embedded solutions with synergy in hardware and software development and realization, with technologies ranging from nano-power systems with energy-efficient microcontrollers and state-of-the art power conversion components, to computation- and resource-intensive systems embedding e.g. Cyclone or Stratix FPGAs with performance rating in 1000's of MIPS. Such systems have been implemented in several products by Slovak and European companies as a result of co-operation with LOX Technologies, such as Formica (welding machines, SK), Aerodynamic (avionics, A), Gotive (ruggedized

smartphones, SK), ME Inspection (industrial computer vision, SK/D), IQtronic (consumer electronics, CZ), Barani design (meteostations, US/SK), and Dataplicity (industrial metering, UK).

SK Participant Project Cost: EUR 195 000

SK Participant EC Financial Contribution: EUR 29 250

Project Outcomes planned/real: The main objective of the SAFESENS project is to obtain earlier and more reliable fire detection in combination with accurate occupancy detection by co-integrating multiple gas sensor and presence detection technologies in both building safety systems and personal monitors.

More specifically, the SAFESENS project will:

- Enable early detection of fire by measuring multiple gases (e.g. VOC, CO₂, CO) and increasing fire detection reliability by interpreting measured data with sensor fusion algorithms;
- Co-integrate gas sensors with presence detection technology (i.e. micro-bolometer) for HABA systems and generate fire propagation and building occupancy maps for efficient evacuation planning;
- Create new gas detectors that are wearable and localizable (i.e. a personal health monitor for rescue workers with inertial and RF localization technologies).

Slovak Participant's Role in Project: Main Tasks for LOX Technologies:

- Specification and technical requirements of readout electronics for metal oxide gas sensors;
- Design, development and fabrication of electronic circuitry for metal oxide gas microsensors prepared on a PI membrane;
- Software development for control, measuring and evaluation of electronic circuitry and functional testing and calibration of developed metal oxide sensors;
- System demonstration and validation of metal oxide gas microsensor prepared on a PI membrane;
- Dissemination of project results in exhibitions and via trademarks.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 315 000

SK Participant EC Financial Contribution: EUR 47 250

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

2. Specific programme **IDEAS**

2.1 Ideas



ELENA

Project ID: 311532

Project Title: Electrochemical LECTin and glycan biochips integrated with NANOstructures

Project website: <http://www.chem.sk/>

Project Start Date: 2013-01-01

Project End Date: 2017-12-31

Project Total Cost: EUR 1 155 970

Project EC Financial Contribution: EUR 1 155 970

Slovak participant Name: CHEMICKÝ ÚSTAV SLOVENSKEJ AKADEMIE VIED, Chemical Institute of Slovak Academy of Sciences

Slovak participant address: Dúbravská cesta 9, 845 38 Bratislava

Contact person email/ phone: Ing. Ján Tkáč, DrSc., Jan.Tkac@savba.sk, +421 2 5941 0263

Partners of the Consortium:

CHEMICKÝ ÚSTAV SLOVENSKEJ AKADEMIE VIED, Chemical Institute of Slovak Academy of Sciences- SLOVAKIA

Project Description: N/A

Project Objectives: The aim of the project is to develop biochips for the fundamental study of the effect of precisely tuned ligand (glycan and lectin) density, presence of mixed glycans and the length of glycans on the glycan biorecognition. This task will be executed with the aid of nanotechnology to control these aspects at the nanoscale. Moreover, novel label-free electrochemical detection strategies will be used to mimic natural glycan recognition performing without any label. Finally, advanced patterning protocols and novel detection platforms will be integrated to develop fully robust biochips for functional assay of samples from people having some disease with a search for a particular biomarker of the disease.

Profile of Slovak Participant/ -s: The Institute publishes the Chemical Papers, the only Slovak chemistry journal published in English. The Institute houses the Culture Collection of Yeasts, the largest yeast collection in Central Europe. The Institute regularly organizes international scientific conferences and symposia such as the Annual Conferences on Yeast is (41st year in 2014) and the Bratislava Symposia on Saccharides have been regularly organized since 1978 with its 13th event held in 2014 with the focus on 'Recent Advances in Glycomics'.

The scientific activities at the Institute of Chemistry, Slovak Academy of Sciences are focused mainly on chemistry and biochemistry of carbohydrates and their derivatives, the role of carbohydrate and carbohydrate processing enzymes in living systems and on the application of carbohydrates as vaccines or indicators of various diseases.



The most recent scientific effort at the Institute converge towards better understanding the field of glycomics, which is currently one of the most progressively evolving scientific fields due to ever-growing evidence proving that glycans (carbohydrates) are involved in many aspects of the cell physiology and pathology. Glycans are information-rich molecules responsible for sophisticated storage and coding "commands" the cell has to perform to stay "fit" and to deal with uninvited pathogens. Recent studies suggest glycans are involved in numerous diseases including cancer and that cancerous tissue produces different glycans compared to healthy tissues and thus glycan biomolecules (glycoproteins) are considered as cancer biomarkers. A better understanding of these processes can help to develop new, potent and nature-based vaccines and drugs.

SK Participant Project Cost: EUR 1 155 970

SK Participant EC Financial Contribution: EUR 1 155 970

Project Outcomes planned/real: Glycomics stayed behind the advances in genomics and proteomics, but due to the advent of high-throughput biochips glycomics is catching up very quickly. Two biochip formats available to study the challenging and complex field of glycomics within the project are either based on immobilised glycans (glycan biochips) or glycan recognising molecules – lectins (lectin biochips). Both technologies proved to be a success story to reveal the amazing, precisely tuned "glycocode" reading, but so far biochips do not work under conditions resembling the natural process of glycan deciphering.

The aim of the project is to develop biochips for fundamental study of the effect of precisely tuned ligand (glycan and lectin) density, presence of mixed glycans and the length of glycans on the glycan biorecognition. This task will be executed with the aid of nanotechnology to control these aspects at the nanoscale. Moreover, novel label-free electrochemical detection strategies will be used to mimic natural glycan recognition performing without any label. Finally, advanced patterning protocols and novel detection platforms will be integrated to develop fully robust biochips for functional assay of human samples with some disease with a search for a particular biomarker of the disease. So far such lectin biochips/biosensors have been applied in ultrasensitive analysis of a wide range of intact glycoproteins; some of them were analysed directly in such complex samples as human plasma. Moreover, various human and mouse intact cell lines were glycoprofiling as well. Glycan biochips/biosensors have so far been applied in the analysis of glycan recognising proteins down to very low limits of detection and for the analysis of various chemically treated human influenza viruses.

Slovak Participant's Role in Project: The focus in the project lies in the development of ultrasensitive electrochemical-based lectin biosensors, attempting to outperform initial biosensor devices in terms of sensitivity, and offering a detection limit down to the single molecule level, as has been achieved by controlled architecture of a receptive layer on the nanoscale. In our first study a 2-D lectin biosensor was constructed on a mixed self-assembled monolayer on gold to quantitatively detect the amount of sialic acid present within the glycan moiety on the protein surface. The device offered a working concentration range spanning seven orders of magnitude with a detection limit for the glycoprotein down to 300 aM, which was the lowest detectable glycoprotein concentration at the time of publication. In the subsequent study, the incorporation of gold nanoparticles for lectin immobilisation allowed the preparation of a 3-D lectin biosensor offering a lower, and unprecedented, detection limit of 0.5 aM over a wide dynamic concentration range. Finally, the lectin biosensors have been applied in an analysis of glycan changes on immunoglobulins following the progression of rheumatoid arthritis in humans.



3. Specific programme **PEOPLE**

3.1 Action: Initial Training of Researchers



ALERT

Project ID: 607996

Project Title: Anatolian Plateau climate and Tectonic hazards

Project website: <http://itn-alert.org/>

Project Start Date: 2013-10-01

Project End Date: 2017-09-30

Project Total Cost: EUR 3 338 803

Project EC Financial Contribution: EUR 3 338 803

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

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Partners of the Consortium:

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UNIVERSITÀ DEGLI STUDI ROMA TRE - ITALY
UNIVERSITY OF PLYMOUTH - UNITED KINGDOM
DOKUZ EYLUL UNIVERSİTESİ - TURKEY
HACETTEPE UNIVERSİTESİ - TURKEY
BSF SWISSPHOTO GMBH - GERMANY
INSTITUT DE PHYSIQUE DU GLOBE DE PARIS - FRANCE
ISTANBUL TEKNİK UNIVERSİTESİ - TURKEY
ORACLE DEUTSCHLAND B.V. & CO. KG - GERMANY

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-SLOVAKIA

Project Description: ALERT: Anatolian Plateau climate and Tectonic hazards, is a virtual campus of 10 European academic and 5 industry partners in the fields of applied Earth sciences, natural hazard monitoring, and knowledge transfer.

Project Objectives: Research focus is on the tectonic and climatic boundary conditions along the densely populated margins of the Central Anatolian Plateau, Turkey and associated natural hazards. Due to the international scale of the challenges associated with Global Change and active tectonics in plateau-margin environments worldwide, students with international experience and an interdisciplinary background will be best poised to take future leadership roles in academic, industry or policy realms.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 209 528

SK Participant EC Financial Contribution: EUR 209 528

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EDA-EMERGE

Project ID: 290100

Project Title: Innovative biodiagnosis meets chemical structure elucidation – Novel tools in effect directed analysis to support the identification and monitoring of emerging toxicants on a European scale

Project website: <http://www.ufz.de/>

Project Start Date: 2011-10-01

Project End Date: 2015-09-30

Project Total Cost: EUR 3 751 911

Project EC Financial Contribution: EUR 3 751 911

Slovak participant Name: ENVIRONMENTAL INSTITUTE s.r.o.

Slovak participant address: Okružná 784/42, 972 41 KOŠ

Contact person email/ phone: D. Jaroslav Slobodnik, +421 4 65 420 719, slobodnik@ei.sk

Partners of the Consortium:

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RHEINISCH-WESTFÄLISCHE TECHNISCHE HOCHSCHULE AACHEN - GERMANY
NORSK INSTITUTT FOR VANNFORSKNING - NORWAY
RUDER BOSKOVIC INSTITUTE - CROATIA
INSTITUT NATIONAL DE L'ENVIRONNEMENT ET DES RISQUES INERIS - FRANCE
KWR WATER B.V. - NETHERLANDS
EIDGENÖSSISCHE ANSTALT FÜR WASSERVERSORGUNG ABWASSERREINIGUNG UND GEWÄSSERSCHUTZ - SWITZERLAND
VERENIGING VOOR CHRISTELIJK HOGER ONDERWIJS WETENSCHAPPELIJK ONDERZOEK EN PATIENTENZORG - NETHERLANDS
WATCHFROG - FRANCE
STICHTING VU-VUMC - NETHERLANDS
ENVIRONMENTAL INSTITUTE s.r.o. - SLOVAKIA

Project Description and Objectives: EDA-EMERGE aims to train a new generation of young scientists in the interdisciplinary techniques required to meet the major challenges in the monitoring, assessment and management of toxic pollution in European river basins considering the enormous complexity of contamination, effects and cause-effect relationships. By integrating innovative mode-of-action based biodiagnostic tools including in vitro tests, transgenic organisms and omics techniques with powerful fractionation and cutting edge analytical and computational structure elucidation tools, a new generation of effect directed analysis (EDA) approaches will be developed for the identification of toxicants in European surface and drinking waters. Innovative method development by young researchers at major universities, research centres and private companies will be closely interlinked with a joint European demonstration program and higher tier EDA and extensive training courses. EDA-EMERGE ESRs will learn to organise and run international and interdisciplinary sampling and monitoring campaigns and benefit from the expertise of one of the most experienced private companies in this field. Strong networking between academia, the private sector and leading regulators in the field of river basin management and pollution management ensures the relevance of the research for practice and excellent employment opportunities for EDA-EMERGE ESRs. The combination of cutting edge science with training in multiple complementary (soft) skills offered with a strong emphasis on commercial exploitation and media competence will further enhance employability of well-trained ESRs not only in research and academia but far beyond. An internationally composed advisory board will introduce new perspectives of monitoring, assessment and management of emerging pollutants within and outside of Europe.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 204 365.7

SK Participant EC Financial Contribution: EUR 204 365.7

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ELDEL

Project ID: 215961

Project Title: Enhancing Literacy Development in European Languages

Project website: <http://www.eldel.eu/>

Project Start Date: 2008-09-01

Project End Date: 2012-08-31

Project Total Cost: EUR 3 752 311

Project EC Financial Contribution: EUR 3 752 311

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

Slovak participant address: Šafárikovo nám. 6, 818 06 Bratislava

Contact person email/ phone: Martina Mikulajová, marina.mikulajova@fedu.uniba.sk

Partners of the Consortium:

BANGOR UNIVERSITY - UNITED KINGDOM
UNIVERZITA KARLOVA V PRAZE - CZECH REPUBLIC
UNIVERSITE BLAISE PASCAL CLERMONT-FERRAND II - FRANCE
UNIVERSITE DE POITIERS - FRANCE
UNIVERSITY OF YORK - UNITED KINGDOM
UNIVERSIDAD DE GRANADA - SPAIN

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-SLOVAKIA

Project Description: The research program comprises a number of overlapping cross-linguistic studies that will reveal the language-specific and language-general factors affecting literacy development. This multidisciplinary network includes partners with expertise in developmental, educational, and clinical psychology, experimental psycholinguistics, speech and language therapy, and an industrial partner specialising in the creation of software for the assessment and training of literacy skills. Each partner will also contribute to the network's training aims, to provide training in generic as well as in state-of-the-art domain-specific research skills.

Project Objectives: The scientific aims of the ELDEL project are:
- to produce a model elucidating the relationships among psychological (psycholinguistic, cognitive) and environmental (orthographic, linguistic, educational/ instructional, cultural) factors determining the development of literacy skills in European languages, and
- to uncover the key components of an effective, culture-appropriate intervention program for the prevention and remediation of literacy problems in the languages under study.

Profile of Slovak Participant/ -s: The Faculty of Education at Comenius University in Bratislava is the oldest faculty of education in Slovakia and it ranks among the biggest faculties of its kind. The main goal of the faculty is to train pedagogues and other professionals for positions in education, social services, health care services and also for culture and public affairs institutions. The important and nationally unique academic fields and study programmes offered at FEDU CU are Communication Disorders Studies and Science, Special Pedagogy Studies and Science, Therapeutic Pedagogy Studies, some of them highly valued also internationally.

SK Participant Project Cost: EUR 466 907

SK Participant EC Financial Contribution: EUR 466 907

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ELECDEM

Project ID: 238607

Project Title: Training Network in Electoral Democracy

Project website: <http://www.elecDEM.eu/>

Project Start Date: 2009-10-01

Project End Date: 2013-09-30

Project Total Cost: EUR 3 324 246

Project EC Financial Contribution: EUR 3 324 246

Slovak participant Name: INSTITUTE PRE VEREJNE OTAZKY, Institute for Public Affairs

Slovak participant address: Baštová 5, 811 03 Bratislava

Contact person email/ phone: N/A

Partners of the Consortium:

THE UNIVERSITY OF EXETER - UNITED KINGDOM
UNIVERSITEIT VAN AMSTERDAM - NETHERLANDS
UNIVERSITAET WIEN - AUSTRIA
THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD - UNITED KINGDOM
SABANCI UNIVERSITY - TURKEY
EUROPEAN UNIVERSITY INSTITUTE - ITALY
UNIVERSITÄT MANNHEIM - GERMANY
TNS OPINION SA - BELGIUM
KIESKOMPAS - NETHERLANDS
KOZEP-EUROPAI EGYETEM - HUNGARY

INSTITUTE PRE VEREJNE OTAZKY, INSTITUTE FOR PUBLIC AFFAIRS- SLOVAKIA

Project Description: N/A

Project Objectives: This Initial Training Network in electoral democracy will bring together 11 expert teams from 9 European countries, including 1 from an associated country and 2 new Member States and 2 full industry partners. The goals of the ELECDEM network are encapsulated in three linked, inter-dependent themes which evaluate the effects of globalisation, communication and institutions on the quality of electoral democracy. Our proposed training network seeks to provide the substantive and methodological skills to a cohort of early stage researchers to undertake the study of electoral democracy and begin academic posts or undertake careers in other sectors. Substantively, through workshops, conferences and institutional training, we will advance an understanding of the three inter-related themes representing the state of the art in the study of elections. Methodologically, we will provide state of the art training in advanced data collection and analysis techniques. Training in practical and complementary skills is provided and will be enhanced and further developed by sediment to industry, associated and full partners. Finally, we will institute a process by which network participants can improve supervisory skills. ELECDEM extends and builds on the FP7 project PIREDEU, a three-year design study to assess the feasibility of an upgrade to the European Election Studies that will provide an infrastructure for research into citizenship, political participation, and electoral democracy in the European Union. The network of scientists is comprised of international researchers in electoral democracy. In combination with the visiting scientist and the associated and industry partners, the training and scientific expertise gathered makes possible a one of a kind research training experience for early researchers that could not be obtained at a single university.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 75 743

SK Participant EC Financial Contribution: EUR 75 743

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ENGCABRA

Project ID: 264417

Project Title: Biomedical engineering for cancer and brain disease diagnosis and therapy development

Project website: <http://www.engcabra.eu/>

Project Start Date: 2011-04-01

Project End Date: 2015-03-31

Project Total Cost: EUR 3 496 556

Project EC Financial Contribution: EUR 3 496 556

Slovak participant Name: VIROLOGICKY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Virology, Slovak Academy of Sciences

Slovak participant address: Dúbravská cesta 9, 845 38 Bratislava

Contact person email/ phone: Mrs. Marcela Krasulova, marcela.krasulova@savba.sk, 421259302401

Partners of the Consortium:

UNIVERSITAET BREMEN - GERMANY
DANMARKS TEKNISKE UNIVERSITET - DENMARK
MEDIZINISCHE UNIVERSITAET WIEN - AUSTRIA
F. HOFFMANN-LA ROCHE AG - SWITZERLAND
KÅBENHAVNS UNIVERSITET - DENMARK
EIDGENÄSSISCHE TECHNISCHE HOCHSCHULE ZÜRICH - SWITZERLAND
TECHNISCHE UNIVERSITAET WIEN - AUSTRIA
XENSOR INTEGRATION BV - NETHERLANDS

VIROLOGICKY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF VIROLOGY, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The project focuses on the realisation of novel methods and devices for analysis of cellular and molecular mechanisms related to cancer and brain diseases.

Project Objectives: The aim of this ITN is to conduct training and research in the field of novel bio-analytical methods and tools for cell based diseases, in specific for severe cancers and brain diseases. These methods and tools should allow faster and more reliable diagnosis, but are also of great importance for therapy research leading to novel treatment methods. This ITN combines disciplines such as engineering, biotechnology, medicine, and chip-technology and the consortium covers universities, hospitals and industry. The functionality of the devices is determined by the type of measurements that need to be performed, therefore we will focus on a few specific diseases: our cancer research will be aimed at skin cancer (melanoma) and blood cancer (leukaemia), and the part on brain diseases will focus on schizophrenia. Although we will direct our activities towards these three diseases in particular, we expect that the research (methods, devices, and technology) will also have impact on the understanding of other cancer types and other brain diseases.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 218 018

SK Participant EC Financial Contribution: EUR 218 018

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ESTABLIS

Project ID: 290022

Project Title: Ensuring STABILty in organic Solar cells

Project website: <http://www.project-establis.eu/>

Project Start Date: 2012-01-01

Project End Date: 2015-12-31

Project Total Cost: EUR 3 870 293

Project EC Financial Contribution: EUR 3 870 293

Slovak participant Name: MEDZINARODNE LASEROVE CENTRUM, International Laser Centre

Slovak participant address: Ilkovičova 3, 841 04 Bratislava

Contact person email/ phone: ilc@ilc.sk

Partners of the Consortium:

UNIVERSITE DE PAU ET DES PAYS DE L'ADOUR - FRANCE
UNIVERSITAET LINZ - AUSTRIA
HERAEUS PRECIOUS METALS GMBH & CO. KG - GERMANY
ASTON UNIVERSITY - UNITED KINGDOM
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE
VILNIAUS UNIVERSITETAS - LITHUANIA
EBERHARD KARLS UNIVERSITAET TUEBINGEN - GERMANY
FUNDACION IMDEA NANOCIENCIA - SPAIN
KONARKA TECHNOLOGIES GMBH - GERMANY
MERCK CHEMICALS LTD - UNITED KINGDOM

MEDZINARODNE LASEROVE CENTRUM, INTERNATIONAL LASER CENTRE- SLOVAKIA

Project Description: ESTABLIS will be an interdisciplinary and inter-sectorial research and training network.

Project Objectives: ESRs and ERs that result from ESTABLIS will excel. They will possess a broad skill-set across a range of disciplines that are of absolute necessity to develop the industrial and academic infra-structure in OSCs. Researchers will receive training in the primary areas of synthetic organic chemistry through complementary aspects of polymer science to complete industrial scale photovoltaic device manufacture. To improve the roll-to-roll engineering and stability of opto-electronically active thin-films will require new polymers, surface treatments, rheological appraisals of polymer processing, and ageing studies. A parallel approach will develop the necessary improvements in electronic and opto-electronic properties by clarifying correlations between charge transfer, photochemistry and stability. This project will be run by meticulously interacting groups to increase the stability of strong, flexible, low-cost OSCs to 10 years so that they can be sold on a mass-market basis.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 215 404.1

SK Participant EC Financial Contribution: EUR 215 404.1

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

FUNEA

Project ID: 264873

Project Title: FUNctional Nitrides for Energy Applications

Project website: <http://www.funera.tu-darmstadt.de/funera/aboutus/index.en.jsp>

Project Start Date: 2011-02-01

Project End Date: 2015-01-31

Project Total Cost: EUR 3 057 346.58

Project EC Financial Contribution: EUR 3 057 346.58

Slovak participant Name: USTAV ANORGANICKEJ CHEMIE SLOVENSKEJ AKADEMIE VIED, Institute of Inorganic Chemistry, Slovak Academy of Sciences

Slovak participant address: Dúbravská cesta 9, 845 38 Bratislava

Contact person email/ phone: prof. RNDr. Pavol Šajgalik, DrSc.

E-mail: uachsajg@savba.sk, Tel.: 02/57510 134

Partners of the Consortium:

TECHNISCHE UNIVERSITAET DARMSTADT - GERMANY

UNIVERSITA DEGLI STUDI DI PADOVA - ITALY

FAURECIA EMISSIONS CONTROL TECHNOLOGIES GERMANY GMBH - GERMANY

MDA ILERI TEKNOLOJİ SERAMIKLERİ SANAYİ TİCARET LİMİTED SİRKETİ - TURKEY

STOCKHOLMS UNIVERSITET - SWEDEN

AZ ELECTRONIC MATERIALS (GERMANY) GMBH - GERMANY

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE

UNIVERSITE MONTPELLIER 2 SCIENCES ET TECHNIQUES - FRANCE

UNIVERSITAET BAYREUTH - GERMANY

UNIVERSITA DEGLI STUDI DI TRENTO - ITALY

USTAV ANORGANICKEJ CHEMIE SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF INORGANIC CHEMISTRY, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The FUNEA vision is to develop an integrated multidisciplinary research and training programme in the field of inorganic nitrides.

Project Objectives: In terms of fundamental research, the FUNEA aims to advance the state-of-the-art knowledge and understanding of inorganic nitrides and mixed nitride-anion systems by achieving the ability to synthesize, manipulate, characterize, understand and model binary and ternary nitrides and oxonitrides with functional properties. This would mean a breakthrough in the nitride chemistry, starting a new era for materials with advanced functionality and exceptional levels of performance.

Profile of Slovak Participant/ -s: The scientific activity of the Institute of Inorganic Chemistry of the Slovak Academy of Sciences (IIC SAS) is currently focused on the research of the inorganic and bioinorganic systems suitable for designing new materials and/or technologies in common areas of interest in the Slovak Republic and abroad, doing so via expertise of and collaboration with universities and both nonprofit and profit institutions. IIC SAS is also active in education of new scientists in relevant areas within the framework approved by the Ministry of Education of the Slovak Republic. The primary interest is devoted to (1) relations between composition and structure of inorganic compounds, i. e. advanced ceramics, molten systems and hydrosilicates, (2) phenomena and chemical reactions in inorganic systems and on phase boundaries, (3) thermodynamics of many component systems and (4) development and application of theoretical and experimental methods for estimation of the structure and properties of compounds.

The research is upgraded and conducted in funded scientific and research projects - governmental or international grants, as well as contracts with industrial bodies.

SK Participant Project Cost: EUR 436 049.64

SK Participant EC Financial Contribution: EUR 436 049.64

Project Outcomes planned/real: The FUNEA vision is to develop an integrated and multidisciplinary research and training programme in the field of inorganic nitrides. In terms of fundamental research, the FUNEA aims to advance the state-of-the-art knowledge and understanding of inorganic nitrides and mixed nitride-anion systems. This would mean a breakthrough in the nitride chemistry starting a new era for materials with advanced functionality and exceptional levels of performance. In terms of technological applications, the FUNEA focuses on the energetic applications of nitride-based materials and therefore addresses the main needs of the 21st century. To achieve both short- and long-term goals, the FUNEA focuses on the following research objectives: to synthesise, manipulate, characterize, understand and model:

- 1) perovskite nitrides and oxonitrides with piezoelectric properties;
- 2) microporous nitride-based ceramic membranes with high thermal and chemical stability for the hightemperature hydrogen purification;
- 3) ternary nitrides and SiAlON-based light emitting phosphors for LEDs (IIC SAS);
- 4) new BN-based materials (nanostructured, intercalated/ doped BN & BN:hydride hybrid) for H₂ storage;
- 5) silicon nitride-based (i.e. Si(O,C)N, Si₃N₄, SiAlON) porous ceramic components with high thermal and chemical stability for the filtering of gas containing particulates or chemicals (odours, moisture, pollutants);
- 6) nitride-based macro-porous ceramic substrates as supports for gas separation membranes;
- 7) N-doped Si-C-N-O mixed anion systems for electro/optical gas sensors for harsh environments.

Slovak Participant's Role in the Project: As the party responsible for FUNEA project the Department of Ceramics of IIC SAS is primarily interested in research focused on understanding the relations between microstructure and properties, structural and functional, of oxide/non-oxide ceramics and composites. Microstructural design of a new type of multifunctional composites including the in situ modification of grain boundaries are also studied with respect to the room and high temperature properties. The matrix of composites is on the base of alumina, silicon nitride or carbide, and SiAlONs.

Research team of this department is within the FUNEA project mainly involved in: i) Development of new long lasting silicon nitride-based phosphors, ii) the processing of Eu doped ternary nitrides, and iii) the complete characterization of the obtained products, in terms of structure and optical properties. IIC team will devote its efforts mainly to the fabrication of thin layers of doped ternary nitrides for LED technology and will explain the role of dopant valence on the electronic structure and luminescent properties.

MAMINA

Project ID: 211536

Project Title: Macro, Micro and Nano Aspects of Machining

Project website:

Project Start Date: 2008-09-01

Project End Date: 2012-08-31

Project Total Cost: EUR 3 684 045

Project EC Financial Contribution: EUR 3 684 045

Slovak participant Name: USTAV MATERIALOVEHO VYSKUMU SLOVENSKEJ AKADEMIE VIED, Institute of Materials Research, Slovak Academy of Sciences

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USTAV MATERIALOVEHO VYSKUMU SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF MATERIALS RESEARCH, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description and Objectives: The MAMINA project will combine the work of 19 European universities, research institutions and industrial companies to analyse and improve the machinability of three selected alloys that are widely used in industry, namely Ti15V3Cr3Al3Sn, a titanium alloy, Inconel IN706, a nickel-base superalloy, and X40, a cobalt-base alloy. As the chip formation is one of the key factors influencing the machinability of these materials, this process will be studied in detail in a multidisciplinary approach.

Profile of Slovak Participant/ -s: Institute of Materials Research, Slovak Academy of Sciences, Kosice, SK (IMRSAS) became one of the leading institutions of Central Europe in the field of powder technologies/materials, nanomaterials and ceramic matrix composites during its 55 years of existence. The scientific orientation of the Institute (staff 84, incl. 3 Professors, 5 DrSc., 33 PhD.) is focused on the development and testing of new materials (physical and mechanical properties and the deformation and fracture characteristics of different materials at low, room, and high temperatures) and of new technologies with potential applications in transportation, energy, information technology, etc. The Institute is collaborating with a number of European institutions in the frame of different EC, COST, NATO, Royal Society etc. projects and organizing different international conferences and meetings. Department of Structural Ceramics will be mostly involved in the Project providing its expertise in the following research fields: Microstructure and mechanical properties of silicon nitride based monolithic ceramics, ceramic matrix composites, nano-composites, layered composites and coatings, High temperature characteristics of brittle materials / creep, slow crack growth, oxidation, etc; Fractographic failure analysis of brittle materials, Prediction of the life-time and reliability of brittle materials, Pre-standardization and standardization activities in the frame of ESIS and VAMAS.

SK Participant Project Cost: EUR 453 378.2

SK Participant EC Financial Contribution: EUR 453 378.2

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

PNMR

Project ID: 317127

Project Title: Pushing the Envelope of Nuclear Magnetic Resonance Spectroscopy for Paramagnetic Systems. A Combined Experimental and Theoretical Approach

Project website: <http://www.cnrs.fr/>

Project Start Date: 2013-01-01

Project End Date: 2016-12-31

Project Total Cost: EUR 3 470 413

Project EC Financial Contribution: EUR 3 470 413

Slovak participant Name: USTAV ANORGANICKEJ CHEMIE SLOVENSKEJ AKADEMIE VIED, Institute of Inorganic Chemistry, Slovak Academy of Sciences

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ASTRAZENECA AB - SWEDEN
UNIVERSITEIT LEIDEN - NETHERLANDS
CONSORZIO INTERUNIVERSITARIO RISONANZE MAGNETICHE DI METALLO PROTEINE - ITALY
EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZURICH - SWITZERLAND
TECHNISCHE UNIVERSITAT BERLIN - GERMANY
STOCKHOLMS UNIVERSITET - SWEDEN
BRUKER BIOSPIN GMBH - GERMANY
GIOTTO BIOTECH – ITALY

USTAV ANORGANICKEJ CHEMIE SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF INORGANIC CHEMISTRY, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: A network combining 9 academic research groups and 4 collaborating industrial companies is proposed to train the next generation of PhD students and post-doctoral researchers, in developing and applying novel experimental and theoretical methods in the NMR spectroscopy of systems containing paramagnetic metals.

Project Objectives: The assembled team, with researchers distributed throughout the EU, will investigate a variety of important problems in chemistry and biology including catalysts, battery materials, metalloproteins and large protein-protein assemblies. The researchers will be trained to attack key problems that prevent the widespread usage of NMR spectroscopy as applied to paramagnetic materials, and to develop new methods to improve significantly the structural and electronic information that can be obtained from these systems.

Three experimental and theoretical work programs are proposed, which build on, but also move significantly beyond the recent advances in pNMR, many of which have originated from members of this network: i) developing experimental approaches for obtaining NMR spectra from challenging paramagnetic molecules and materials, ii) extending the fundamental theoretical understanding of pNMR parameters, and facilitating their quantum-chemical implementations in first-principles software; iii) attacking relevant chemical and biological problems, with novel techniques to determine structure (e.g., of insoluble proteins and disordered battery electrode materials), dynamics and reactivity around metal centres, and exploring interactions between, e.g., biomolecules, catalytic centres and supports. Integral to the research-based training programme is the series of workshops, practical training courses, international conferences, and outreach actions, located at the different sites. These will i) train the young researchers of the network in the basics of pNMR and ii) disseminate the results of the network to the larger NMR community and to the general public.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 212 003

SK Participant EC Financial Contribution: EUR 212 003

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

PROSENSE

Project ID: 317420

Project Title: Cancer Diagnosis: Parallel Sensing of Prostate Cancer Biomarkers

Project website: <http://people.bath.ac.uk/pmdlce20/prosense.html>

Project Start Date: 2012-10-01

Project End Date: 2016-09-30

Project Total Cost: EUR 4 006 853

Project EC Financial Contribution: EUR 4 006 853

Slovak participant Name: CHEMICKY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Chemistry, Slovak Academy of Sciences

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ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE - SWITZERLAND

DUBLIN CITY UNIVERSITY - ÉIRE/IRELAND

INESC MICROSISTEMAS E NANOTECNOLOGIAS-INSTITUTO DE ENGENHARIA DE

SISTEMAS DE COMPUTADORES PARA OS MICROSISTEMAS E AS NANOTECNOLOGIAS

- PORTUGAL

FACHHOCHSCHULE KAISERSLAUTERN - GERMANY

XEPTAGEN SPA - ITALY

APPLIED ENZYME TECHNOLOGY LIMITED - UNITED KINGDOM

CHEMICKY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF CHEMISTRY, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

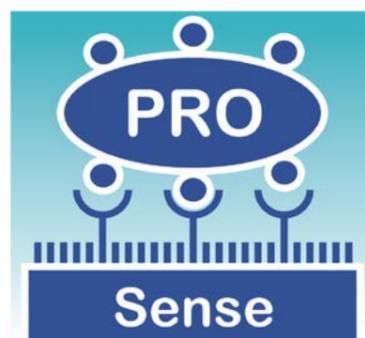
Project Description: The Marie Curie ITN "Cancer Diagnostics: Parallel Sensing of Prostate Cancer Biomarkers" (PROSENSE) aims at training a new generation of young scientists in the interdisciplinary techniques and methods required to meet the major challenges in the development of diagnostic tools for prostate cancer. It will bring together training by experts from the biosensor technology area and those from life sciences and medicine that work on cancer biomarker research.

PROSENSE is a coordinated research training network involving university groups, R&D sections of small and medium enterprises, research institutes, hospitals and the R&D section of a large enterprise from the biomedical field. PROSENSE is a unique programme bringing together training across disciplines and across sectors, complemented by researcher career development tools. The scientific aspects of PROSENSE are centred around the issues of: 1) Development and study of biomarkers; 2) Detection techniques development; 3) Probe immobilisation and characterisation; 4) System integration and validation.

Project Objectives: A full programme of cross-disciplinary and cross-sectoral secondments, training and events will enable PROSENSE to promote interaction, knowledge exchange and collaboration in the multidisciplinary field of biosensor design with the aim of developing improved devices for prostate cancer diagnosis, prognosis and treatments. It will increase understanding of clinical relevance of prostate cancer biomarkers and elucidate how

the concurrent analysis of biomarkers can inform therapy; improve sensitivity, selectivity, robustness and speed of biosensing technologies for the simultaneous screening of biomarkers; develop lab-on-a-chip devices requiring minute amounts of clinical samples and increase likelihood of viable fit-for-purpose prostate cancer biosensing products.

Profile of Slovak Participant/ -s: The Institute is publishing Chemical Papers, the only Slovak chemistry journal printed in English. The Institute houses the Culture Collection of Yeasts, the largest yeast collection in Central Europe. The Institute regularly organizes international scientific conferences and symposia such as the Annual Conferences on Yeast (41st event in 2014) and The Bratislava Symposia on Saccharides have been regularly organized since 1978, with 13th event organised in 2014 being focused on „Recent Advances in Glycomics“.



The scientific activities at the Institute of Chemistry of the Slovak Academy of Sciences are focused mainly on chemistry and biochemistry of carbohydrates and their derivatives, the role of carbohydrate and carbohydrate processing enzymes in living systems and on application of carbohydrates as vaccines or indicators of various diseases.

The most recent scientific efforts at the Institute converge to better understanding the field of glycomics, which is currently one of the most progressively evolving scientific fields due to the ever growing evidence that glycans (carbohydrates) are involved in many aspects of the cell physiology and pathology. Glycans are information-rich molecules responsible for sophisticated storage and coding of "commands" a cell has to perform to stay "fit" and to deal with uninvited pathogens. Recent studies suggest that glycans are associated with numerous diseases including cancer, and that cancerous tissue produces different glycans compared to healthy tissues, and thus glycan biomolecules (glycoproteins) are considered as cancer biomarkers. A better understanding of these processes can help to develop new, potent and nature-based vaccines and drugs.

SK Participant Project Cost: EUR 436 436

SK Participant EC Financial Contribution: EUR 436 436

Project Outcomes planned/real: The Marie Curie ITN „Cancer Diagnostics: Parallel Sensing of Prostate Cancer Biomarkers“ (PROSENSE) aims at training a new generation of young scientists in the interdisciplinary techniques and methods required to meet the major challenges in the development of diagnostic tools for prostate cancer. It will bring together training by experts from the biosensor technology area and those from life sciences and medicine that work on cancer biomarker research. PROSENSE is a coordinated research training network involving university groups, R&D sections of small and medium enterprises, research institutes, hospitals and the R&D section of a large enterprise from the biomedical field. PROSENSE is a unique programme bringing together training across disciplines and across sectors, complemented by researcher career development tools. The scientific aspects of PROSENSE are centred around the issues of: 1) Development and study of biomarkers; 2) Detection techniques development; 3) Probe immobilisation and characterisation; 4) System integration and validation.

A full programme of cross-disciplinary and cross-sectoral secondments, training and events will enable PROSENSE to promote interaction, knowledge exchange and collaboration in the multidisciplinary field of biosensor design with the aim of developing improved devices for prostate cancer diagnosis, prognosis and treatments. It will increase understanding of clinical relevance of prostate cancer biomarkers and elucidate how the concurrent analysis of biomarkers can inform therapy; improve sensitivity, selectivity, robustness and speed of biosensing technologies for the simultaneous screening of biomarkers; develop lab-on-a-chip devices requiring minute amounts of clinical samples and increase the likelihood of viable fit-for-purpose prostate cancer biosensing products.

Slovak Participant's Role in Project: There are two scientific lines followed in the project for enhanced selectivity and sensitivity of prostate cancer biomarker detection by glycoprofiling: 1) Objectives for "Label-free electrochemical glycoprofiling of prostate cancer biomarkers" (Dr. Ján Tkáč):

Immobilisation of lectin/antibodies on nanoscale patterned surface e.g. carbon nanotube, graphene, gold nanoparticles or a SAM layer;

Integration of lectin/antibody immobilised surfaces with label-free detection platform based on electrochemical investigation (e.g. impedance);

Extensive validation of the electrochemical method of detection by reference methods (SPR and QCM); Analysis of real samples and validation of assays.



The main emphasis will be put on developing a highly sensitive and highly selective electrochemical method of glycoprofiling of prostate cancer biomarkers directly in diluted blood/plasma without any sample pre-treatment with the aid of nanotechnology 2) Objectives for "Glyco-recognition by microarray and SPR biochips" (Dr. Jaroslav Katrík) Preparation of biochips for bioanalytical determination of glycosylation changes in biological samples by microarray and SPR (surface plasmon resonance) platforms using lectins or other glycan binding molecules as biorecognition elements. Efficiency of glyco-biomarkers determination will be evaluated by other reference techniques and can comprise ELISA/ELLA (enzyme linked lectin assay), lectin blotting, lectin histochemistry and mass spectrometry for glycan epitope identification.

QUEST

Project ID: 238007
Project Title: Quantitative Estimation of Earth's Seismic Sources and Structure
Project website: <http://www.quest-itn.org/>
Project Start Date: 2009-12-01
Project End Date: 2013-11-30
Project Total Cost: EUR 5 039 854
Project EC Financial Contribution: EUR 5 039 854

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

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UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA - SLOVAKIA

Project Description: QUEST (QUantitative Estimation of Earth's Seismic Sources and Structure) is an Initial Training Network in computational seismology funded within the 7th Framework People Programme by the European Commission. The starting date for the 4-year project is December 1, 2009. QUEST builds on research carried out in a previous training network SPICE and is tightly connected to other EU initiatives such as NERIES and EPOS.

Project Objectives: The main goal of QUEST is research and training in the development of strategies for automated seismic imaging using the increasing power of 3-D simulation technology. While so far the observed information was severely reduced to determine Earth's structure, the massive increase in available computational resources allows us now to make use of the complete information contained in the observations. With narrowing resources and increasing energy prizes the exploration industry is seeking highly skilled young scientists capable of driving the new computational technologies towards industrial problems. Earth Science graduating students are lacking profound theoretical and practical training in numerical methods and high-performance computing. QUEST intends to fill this gap offering the students excellent prospects in industry and academia as the combination of skills to be trained are highly in demand. We also expect substantial progress in understanding the dynamics of our planet, the quantification of natural hazards such as earthquakes, tsunamis, and volcanic eruptions. QUEST will link world-leading scientists in methodologies such as computational wave propagation, the theory of inverse problems and global tomography with two of the best industrial research laboratories in geophysics and computing world wide. QUEST will have a lasting impact on the practice of seismic tomography, leading to High-Performance-Computing solutions applicable to industrial and academic challenges, and a generation of young researchers capable of producing better Earth images that help us tackle the challenges of future energy-resource management.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 301 805.9

SK Participant EC Financial Contribution: EUR 301 805.9

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

REGPOLA²

Project ID: 607022

Project Title: Socio-economic and Political Responses to Regional Polarisation in Central and Eastern Europe

Project website: <http://www.ifl-leipzig.de/>

Project Start Date: 2014-01-01

Project End Date: 2017-12-31

Project Total Cost: EUR 3 165 808.58

Project EC Financial Contribution: EUR 3 165 808.58

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

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SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA) - SLOVAKIA

Project Description and Objectives: The ITN RegPolA² - Socio-economic and Political Responses to Regional Polarisation in Central and Eastern European centres on new patterns of regional disparities between metropolitanised core regions and the remaining parts of Central and Eastern European countries (CEE). Such spatial patterns have become a striking feature of the current settlement system of these countries and have lately fuelled concerns about further polarisation and the peripheralisation of non-metropolitan regions. Patterns of regional polarisation, however, do not remain restricted to CEE, but can be found throughout the European Union, albeit at different degrees. As such, there is an EU-wide high demand for professionals able to deal with the spatial implications of these issues. This holds true all the more so as balancing spatial development has been a major goal of European Regional Policy. Against this background, RegPolA² trains 16 young researchers for careers in academia, public administration, NGOs and the private sector. Research training is organised in 3 work packages which comprise individual, albeit strongly interconnected research projects. Each project includes intersectoral secondments providing trainees with occupational skills while at the same time strengthening the interface between academia and the private sector. Local trainings will be supplemented by network-wide events enabling strong collaboration between the partners. Training includes transferable skills as well as theoretical and methodological units. The network draws on expertise from academia and private sector specialists from 7 different countries and 8 scientific disciplines, who are used to working in interdisciplinary and multi-national contexts. Next to new training capacities at European level

and an increased employability of ITN fellows, the project aims at improving regional policy instruments by raising capacities of politicians and both public and private sector policy makers related to issues of regional polarisation.

Profile of Slovak Participant/ -s: Institute of Management of the STU is the pedagogic, research and scientific unit of the Slovak University of Technology. It provides research and pedagogic activities in the area of management and urban planning, closely cooperates with other university units, domestic and foreign universities and other scientific and academic institutions. It guarantees the study programmes and specific study courses and education modules that are related to its profile, and it takes care of integration of STU capacities in management and planning study programmes, and interdisciplinary study programmes comparable to a university study.



SK Participant Project Cost: EUR 403 656

SK Participant EC Financial Contribution: EUR 403 656

Project Outcomes planned/real: The ITN RegPol² - Socio-economic and Political Responses to Regional Polarisation in Central and Eastern Europe centers on new patterns of regional disparities between metropolitanised core regions and the remaining parts of Central and Eastern European countries (CEE). Such spatial patterns have become a striking feature of the current settlement system of these countries and have lately fuelled concerns about further polarisation and the peripheralisation of non-metropolitan regions. Patterns of regional polarisation, however, do not remain restricted to CEE, but can be found throughout the European Union, albeit at different degrees. As such, there is an EU-wide high demand for professionals able to deal with the spatial implications of these issues. This holds true all the more so as balancing spatial development has been a major goal of European Regional Policy. Against this background, RegPol² trains 16 young researchers for careers in academia, public administration, NGOs and the private sector. Research training is organised in 3 work packages which comprise individual, albeit strongly interconnected research projects. Each project includes intersectoral secondments providing trainees with occupational skills while at the same time strengthening the interface between academia and the private sector. Local trainings will be supplemented by network-wide events enabling strong collaboration between the partners. Training includes transferable skills as well as theoretical and methodological units. The network draws on expertise from academia and private sector specialists from 7 different countries and 8 scientific disciplines, who are used to working in interdisciplinary and multi-national contexts.

Slovak Participant's Role in Project: STU as project partner will learn interdisciplinary approaches to spatial development in peripheral regions through access to ongoing research activities and will get insights into the SPA-CE.NET network of CEE spatial planning institutes which STU is affiliated to.

STRIKE

Project ID: 304617

Project Title: Novel Methods in Computational Finance

Project website: <http://www.uni-wuppertal.de/>

Project Start Date: 2013-01-01

Project End Date: 2016-31-12

Project Total Cost: EUR 358 2471

Project EC Financial Contribution: EUR 3 582 471

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

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TECHNISCHE UNIVERSITÄT WIEN - AUSTRIA
JULIUS-MAXIMILIANS UNIVERSITÄT WÜRZBURG - GERMANY
UNIVERSITY OF GREENWICH - UNITED KINGDOM
INSTITUTO SUPERIOR DE ECONOMIA E GESTÃO - ISEG - PORTUGAL
UNIVERSITY OF RUSE ANGEL KANCHEV - BULGARIA
HOCHSCHULE FÜR TECHNIK UND WIRTSCHAFT ZITTAU/GORLITZ - GERMANY
UNIVERSITAT POLITÈCNICA DE VALÈNCIA - SPAIN
UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA- SLOVAKIA

Project Description and Objectives: The main training objective is to prepare, at the highest possible level, young researchers with a broad scope of scientific knowledge and to teach transferable skills, like social awareness which is very important in view of the recent financial crises. The current topic in this network is that the financial crisis in the European countries is a contagion and herding effect and is clearly outside of the domain of validity of Black-Scholes and Merton's theory, since the market is not Gaussian and it is not frictionless and complete. In this research training network our aim is to deeper understand complex (mostly nonlinear) financial models and to develop effective and robust numerical schemes for solving linear and nonlinear problems arising from the mathematical theory of pricing financial derivatives and related financial products. This aim will be accomplished by means of financial modelling, mathematical analysis and numerical simulations, optimal control techniques and validation of models.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 284 944

SK Participant EC Financial Contribution: EUR 284 944

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

TEMPO

Project ID: 607957

Project Title: Training in Embedded Predictive Control and Optimization

Project website: <http://www.ntnu.no/>

Project Start Date: 2014-02-01

Project End Date: 2018-01-31

Project Total Cost: EUR 3 926 584

Project EC Financial Contribution: EUR 3 926 584

Slovak participant Name: SLOVENSKA TECHNICKÁ UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

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KATHOLIEKE UNIVERSITEIT LEUVEN - BELGIUM
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RENAULT SAS - FRANCE

SLOVENSKA TECHNICKÁ UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description: TEMPO addresses the needs of European companies and society for embedded control technology, through training on cutting edge research in the rapidly emerging inter-disciplinary field of embedded predictive control and optimization.

Project Objectives: The key objectives are:
- To expand the scientific and technical knowledge platform for Embedded Predictive Control and Optimization in Europe;
- To exploit this platform to train a new generation of world class researchers and professionals that are highly attractive for employment by the European industry;
- To establish structures for long-term cooperation and strengthen the relations among the leading universities and industry in Europe in this field, to continuously develop the research training platform that European industry relies on.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 394 841.3

SK Participant EC Financial Contribution: EUR 394 841.3

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

3. Specific programme **PEOPLE**

3.2 Action: Life-long Training and Career Development



BIOMEDMICROFLUIDICS

Project ID: 303580

Project Title: Modelling and Optimization of Microfluidic Devices for Biomedical Applications

Project website: <https://www.uniza.sk/menu/inc.php?ver=SK>

Project Start Date: 2012-04-01

Project End Date: 2016-03-31

Project Total Cost: EUR 100 000

Project EC Financial Contribution: EUR 100 000

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, The University of Zilina

Slovak participant address: Univerzitná 1, 010 26 Žilina

Contact person email/ phone: Dr. Ivan Cimrak, +421 4 15 134 126, ivan.cimrak@fri.uniza.sk

Partners of the Consortium: -

Project Description: N/A

Project Objectives: The aim of the project is to incorporate rigorous optimization techniques in the development of such devices. In the design process of currently manufactured devices, the focus has not been put on the performance optimization. The use of mathematically justified optimization techniques offers huge potential for increasing the efficiency.

A computer tool for simulation of complex processes inside microfluidic devices will be developed. A novel capture mechanism based on local affinity interactions will be elaborated. An optimization framework will be established and implemented in the software. With this framework, new devices with higher efficiency will be designed.

During the designing process, different concepts will be optimized, e.g. geometry, blood flow velocities, external magnetic fields manipulating ferromagnetic parts of the device, and other. The optimization will be carried out in a rigorous way by applying iterative optimization techniques, which is a novel element in the development of microfluidic devices.

The underlying physical models will be properly calibrated and validated, and the simulation and the optimization methods will be mathematically justified.

Profile of Slovak Participant/ -s: The University of Zilina, established in 1953 as a public university, provides education at all three levels of higher education in both full-time and part-time forms. With its more than a half century history dedicated to mostly technology oriented education and research, the University has taken a prominent place in the Slovak educational and research space not only with the number of its students, with the range of accredited study programmes, but also with its scientific and foreign activities based on cooperation with domestic and foreign companies and institutions. The main focus of the University research, education and innovation is oriented towards transport, communications, electrical and mechanical engineering, civil engineering, safety and security, information and communication technologies, economics, in recent years also towards the humanities and environmental issues. The staffs of the University has been involved in solving of more than 150 scientific and research projects financially supported through national and international grant schemes.

Recently the scientific teams of the University have been involved in twenty-three EU 7th Framework Program projects. These teams closely cooperate with partners from various industrial branches in the applied research through six Centres of excellence, supported via the Operational Programme "Research and Development" in the framework of European Structural Funds, further closer cooperation with the industries is ascertained through four Centres of competence and three Centres of the applied research. Their achievements are presented mainly through publication activities, submitted patent applications, presentations at international scientific symposiums and conferences, but also at trade fairs and exhibitions.

SK Participant Project Cost: EUR 100 000

SK Participant EC Financial Contribution: EUR 100 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

DS-LOWDIM

Project ID: 239328

Project Title: Dynamical Systems in Low Dimensions

Project website: <http://www.umb.sk/umb/umbbbb.nsf>

Project Start Date: 2009-04-15

Project End Date: 2012-04-14

Project Total Cost: EUR 45 000

Project EC Financial Contribution: EUR 45 000

Slovak participant Name: UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, Matej Bel University in Banská Bystrica

Slovak participant address: Národná 12, 974 01 Banská Bystrica

Contact person email/ phone: doc. RNDr. Roman Hric, PhD., +421 48 446 7135, roman.hric@umb.sk

Partners of the Consortium: -

Project Description and Objectives: We study dynamical systems on metric spaces (non-compact, in general) given by a continuous action of the (semi-)groups of N , Z and R . The problems considered can be roughly divided into two big thematic groups: minimality and dynamical zeta functions. Minimality: besides proving several basic results in a very general setting, we focus on homeomorphisms of (non-compact) surfaces of finite type and three-dimensional flows. In the first case, we study existence of minimal systems and sets on given spaces; topological structure of minimal sets; embeddings of Cantor-like and Denjoy-like minimal systems and their properties; construction of dynamically relevant foliation (eg. Free foliation) with connection to the Brouwer theory; existence of invariant sets for quasi-periodically forced systems on the closed and open annuli. In the latter case we are focused on the Gottschalk conjecture and related problems. Dynamical zeta functions: this topic is closely related to topological entropy and topological pressure. We study the notions of the Artin-Mazur, Milnor-Thurston and Ruelle zeta functions for systems on graphs, dendrites and similar continua. We define topological pressure for non-autonomous systems and prove its basic properties. We investigate topological entropy in the non-compact case. One of our main goals here is to contribute to the solution of the Entropy conjecture.

Profile of Slovak Participant/ -s: Univerzita Mateja Bela v Banskej Bystrici (Matej Bel University in Banská Bystrica, UMB) was established in 1992 as a public university. It consists of six faculties with almost 600 academic employees and approximately 10 500 students. The university has signed collaborative agreements with more than 30 universities world-wide. In 2013, UMB successfully passed certification system quality audit, as required by international standard ISO 9001:2008. International research collaboration has been rapidly developing in recent years. Most of international (mainly FP) projects have been carried out by the Centre for Science and Research and its institutes. The Institute of Social and Cultural Studies of the Faculty of Arts (a part of the Centre) has been participating in FP projects successfully since 2002. Research team of social scientists focuses on several thematic areas: urban studies, diversity, identity, gender, gender and science, mobility and cultural heritage.

SK Participant Project Cost: EUR 45 000

SK Participant EC Financial Contribution: EUR 45 000

Project Outcomes planned/real: The goals of the project were to contribute to selected problems and topics in the dynamical systems theory, a modern branch of mathematics. The studied dynamical systems were given by continuous actions of the (semi)groups of (nonnegative) integers and reals on topological and metric spaces, in general non-compact. The considered problems were mostly related to minimality, structure of minimal sets, and topological entropy. Among the results obtained in the project, we find the following: a construction of a new rich class of minimal systems, almost totally disconnected minimal systems, with full characterization of minimal sets; characterization of (surprisingly complex) topological structure of minimal sets on dendrites; a general construction of almost automorphic minimal sets in quasiperiodically forced systems; a construction of a non-filled-in minimal set on the annulus representing a special embedding of Denjoy tisme; relations between minimality of a flow and its time-t maps; constructions of homeomorphisms representing independence of forward, backward and weak minimality; fundamentals of the theory of topological sequence pressure. All the results have been published in or submitted to top quality refereed mathematical journals. Several outcomes of the project served as seeds for current research of the researcher in charge and they constitute essential parts of papers in progress.

Slovak Participant's Role in Project: UMB was responsible for the activities of the researcher in charge, the only person recruited for the project, from the scientific as well as the financial point of view.

MEIOSIS2012

Project ID: 322300

Project Title: Chromosome segregation during meiosis

Project website: <http://www.uniba.sk/>

Project Start Date: 2013-03-01

Project End Date: 2017-02-28

Project Total Cost: EUR 100 000

Project EC Financial Contribution: EUR 100 000

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

Slovak participant address: Šafárikovo nám. 6, 818 06 Bratislava

Contact person email/ phone: Dr. Juraj Gregan, +431 4 27 774 470, juraj.gregan@univie.ac.at

Partners of the Consortium: -

Project Description and Objectives: In this project, researchers want to screen the recently released *S. pombe* knock-out collection to identify mutants missegregating chromosomes during meiosis. Priority will be to characterize mutants defective in mono-orientation of sister kinetochores during the first meiotic division, as this is the least understood aspect of meiotic chromosome segregation. The fission yeast *S. pombe* is an excellent model organism for such studies due to the fact that *S. pombe* kinetochores, like those of most eukaryotic cells, are associated with multiple microtubules. Moreover, it is amenable to both genetic and cell biology techniques and highly synchronous meiosis can be induced. In order to understand the function of identified proteins, we will combine genetic, biochemical and cell biology techniques.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 100 000

SK Participant EC Financial Contribution: EUR 100 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MHEPS

Project ID: 301060

Project Title: Media-hosted eParticipation in Slovakia

Project website: <http://www.sociologia.sav.sk/>

Project Start Date: 2013-05-01

Project End Date: 2015-12-30

Project Total Cost: EUR 195 049.8

Project EC Financial Contribution: EUR 195 049.8

Slovak participant Name: SOCILOGICKÝ ÚSTAV SLOVENSKEJ AKADEMIE VIED, Institute for Sociology of the Slovak Academy of Sciences

Slovak participant address: Klemensova 19, 813 64 Bratislava

Contact person email/ phone: Simon Smith. Email: simon.smith@savba.sk

Partners of the Consortium: -

Project Description: The research project consists of an in-depth ethnographic case study of eParticipation practices on the websites of Slovak newspapers. The central aim is to identify and analyse the factors shaping the adoption of eParticipation by media organisations and to explore what this means for the dynamics of cultural production and political participation in online spaces as well as for the evolving roles, skills and professional identities of journalists. It will combine ethnographic observation with discourse analysis in an action research framework. The research is collaborative and will address problems and questions relevant to the priorities of management and employees at the partner organisation.

Project Objectives: This fellowship will enable the fellow to carry out research from a base in the Institute for Sociology of the Slovak Academy of Sciences. The central aim of the research is to identify and analyse the factors shaping the adoption of eParticipation by media organisations and to explore what this means in terms of political participation, cultural production and the changing role of journalists. The research is collaborative: the fellow will facilitate knowledge exchange within the eParticipation and citizen journalism initiatives of a Slovak newspaper group. The research will thus directly inform policy, principally at the level of organisations, but also at the level of professional associations and regulators, with respect to the role of the media as democratic intermediaries. It will also contribute to public and professional discourse on the democratic possibilities of the Internet. The main research methods used will be interviews with journalists, extended online and newsroom observation, document analysis and action research.

The proposal is highly relevant to the People work programme. It will enable the fellow to achieve a greater degree of independence in his research career. It involves an innovative inter-disciplinary research design. The benefits of the mobility component will be maximised by bringing together the particular strengths of Slovak sociology with the fellow's pan-European perspective on the research topic, together with input from French theoretical and methodological expertise. Furthermore, knowledge exchange between academia and industry is integral to the research process.

The experience the fellow will gain is intended to enable him to prepare and coordinate a larger programme of comparative research on eParticipation in collaboration with colleagues in several EU countries, thus contribute to the integration of knowledge within the ERA.

Profile of Slovak Participant/ -s: Institute for Sociology of the Slovak Academy of Sciences. The Institute for Sociology of the Slovak Academy of Sciences is the largest and most prominent basic research organization in the field of Sociology in Slovakia. The Institute was established in 1965. The Institute is a member of the ISSP (International Social Survey Programme) which is carried out annually in more than forty countries worldwide since 1995. Since 1998, the Institute has been responsible for the European Values Survey (EVS) in Slovakia, which is carried out every nine years. It publishes *Sociológia – Slovak Sociological Review* – the most important sociology journal in Slovakia. The Institute (together with the Department of Sociology at the Comenius University) initiated the creation of the Slovak Archive of Social Data, which it currently also maintains. The Institute's researchers publish their work in respected international publishing houses and world-class social science journals. They are also active in teaching activities in the field of Sociology as well as in related disciplines.

SK Participant Project Cost: EUR 195 049.8

SK Participant EC Financial Contribution: EUR 195 049.8

Project Outcomes planned/real: The main part of the planned outcome is a book with the working title 'Participatory journalism in Slovakia. An ethnography of distributed knowledge production,' provisionally scheduled to be published in 2016, in the series Palgrave Studies in Science, Knowledge and Policy. Other academic conference papers and journal articles will appear in the interim. The research has a strong action component, so its outcomes also include a number of internal reports and workshops aimed primarily at journalists interested in eParticipation.

Slovak Participant's Role in the Project: The Institute for Sociology is responsible for the project in its entirety. And hosting the Marie Curie fellow. It provides him with all the facilities necessary to carry out the research project and, above all, is an environment for collegial interaction on both formal and informal level, where ideas can be developed and emerging research findings shared.

ORITUPOCO

Project ID: 231085

Project Title: Orientation of Carbon Nanotubes in Polymer Composites

Project website: <http://www.polymer.sav.sk/>

Project Start Date: 2009-04-01

Project End Date: 2012-03-31

Project Total Cost: EUR 45 000

Project EC Financial Contribution: EUR 45 000

Slovak participant Name: USTAV POLYMEROV SLOVENSKEJ AKADEMIE VIED, Polymer Institute, Slovak Academy of Sciences

Slovak participant address: Dúbravská cesta 9, 845 38 Bratislava

Contact person email/ phone: Dr. Zdenko Spital'sky, upolsekr@savba.sk

Partners of the Consortium: -

Project Description and Objectives: Proposal plans to prepare well-aligned carbon nanotube (CNT)/polymer composites. The orientation of CNTs will be reached by two ways. By the first way, well-dispersed surface modified CNTs in gel network will be uniaxially stretched and then cross-linked further, to freeze to the oriented system. By the second way, CNTs with photo-active groups at surface will create self-assembled structures in polymer matrix. For this reason, it is necessary to perform surface modification of CNTs. It will be achieved by introducing of functional groups or oligomers miscible with polymer matrix to reach the best compatibility or by introducing the photo-active groups. Author believes that during self-assembly process of photo-active groups attached at nanotube surface they will induce the orientation of CNTs by light. Similar procedure with photo-active groups can be used in case of alignment by uniaxial stretching. For fixation of anisotropy after stretching the photo-active groups can be used again when oriented structure of CNTs is fixed by photocoupling and/or photocrosslinking at different stage of uniaxial stretching. The photocoupling or photocrosslinking produces strong chemical bonds that fix the internal structure of filler inside matrix. In addition the alignment can be affected by concentration of photo-active groups or used light. An influence of various wavelength, irradiation dose and type of polymer matrix on the orientation of CNTs and influence on mechanical and electrical properties of final CNT/polymer composite will be studied. Various optical, mechanical and electrical methods will be used for characterization of prepared composites. All data will be collected at various irradiation doses in order to be able to determine the photo-actuation behaviour of composites. The ambitious goal of the proposal is photo-actuation of prepared CNT/polymer composites associated with new functionalization of CNTs.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 45 000

SK Participant EC Financial Contribution: EUR 45 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SASPRO

Project ID: 609427

Project Title: Mobility Programme of Slovak Academy of Sciences: Supportive Fund for Excellent Scientists

Project website: -

Project Start Date: 2014-01-01

Project End Date: 2018-12-31

Project Total Cost: EUR 7 785 212

Project EC Financial Contribution: EUR 3 114 084.8

Slovak participant Name: SLOVENSKA AKADEMIA VIED, Slovak Academy of Sciences

Slovak participant address: Štefánikova 49, 814 38 Bratislava

Contact person email/ phone: Dr. Zuzana Hrabovska, hrabovska@up.upsav.sk 02/57510264

Partners of the Consortium: -

Project Description and Objectives: In the proposed project, Slovak Academy of Sciences (SAS) intends to build up mobility programme for foreign researchers allowing them to work at SAS scientific organisations. The main objectives are to increase quality of Slovak science and research by increasing excellence of SAS institutes as well as create optimal conditions for fellows to perform their research and boost their career.

Fellows will freely choose from a wide spectrum of SAS research institutes covering technical and natural sciences, life sciences as well as humanities and social sciences. SAS institutes are located in all Slovakian regions.

Top foreign scientists will be selected for fellowships; fellows will enrich research teams and SAS and will contribute to raising the quality level of Slovak and European science and research. On the other hand, SAS will provide all tools for their career and personal development and ensure broadening and deepening of their scientific and non-scientific experience and skills.

The results of the programme realization will be establishing a quality international cooperation network, strengthening the European science and research position in the world and reducing its fragmentation in several areas.

Profile of Slovak Participant/ -s: Slovak Academy of Sciences (SAS) is the most important research institution in the Slovak Republic, and 13th most important research institution in the region of Eastern Europe (according to ranking of SCImago Institutions Rankings 2013). SAS is the founder of 57 scientific organisations whose focus covers a wide range of scientific fields. The organisations are located in several regions of Slovakia, where most of these are in the capital Bratislava and in the second largest city in Slovakia – Košice. Its primary mission is to acquire new knowledge of nature, society and technology, specifically targeted at ensuring scientific basis for advancement in Slovakia. The Slovak Academy of Sciences successfully presents itself nationally and worldwide through the results in basic and applied research. The Academy publishes 57 scientific and technologies journals and 8 yearbooks. There are 51 scientific and scholarly associations, societies and

unions affiliated with the SAS, whose aim is to support the achievement of the scientific objectives of the SAS.

SK Participant Project Cost: 7 785 212

SK Participant EC Financial Contribution: 3 114 084.8

Project Outcomes planned/real: The objective of the Programme SASPRO is to strengthen SAS scientific organisations by researchers from top-level foreign institutions and provide them with an opportunity to broaden and deepen their scientific and other expertise and skills. It is also an effort to improve the SAS liaison with foreign institutions and build a network of contacts that will facilitate international cooperation. The main goal of the project and all activities is to establish effective mobility programme that would bring the reciprocal benefits to the fellows and to the host institutions, and would strengthen and improve international scientific cooperation. Brain drain from Eastern Europe scientific organisations is a long-term phenomenon which needs to be reversed. Being the best scientific institution in the Slovak Republic, the Slovak Academy of Science has the responsibility to change this unfavourable situation, and to bring the top foreign researchers to the Slovak Republic for the benefit of both sides. To achieve this goal, the Programme is divided into two mobility schemes: Incoming and Reintegration. Best scientists are selected by international, independent peer-review system, and they can obtain fellowships in duration of 12-36 months. Hiring of 57 fellows is expected during the implementation of the project. These fellows will be considered as Marie Curie fellows. The programme will enable to expand research capacity and give SAS institutions access to high-quality researchers whom they might not otherwise have attracted. This, in turn, leads to stronger institutional research outputs and the capacity to tap into wider international knowledge networks.



Slovak Participant's Role in Project: The SAS is the coordinator of the project and the only participant. The SAS is responsible for performing all the tasks implied by the project. The SAS will provide all tools for the fellows' career and personal development, and ensure broadening and deepening of their scientific and non-scientific experience and skills. The SAS is a founder of the scientific institutes that will serve as the host institutions. Bases on this fact, the SAS guarantees that appropriate technical conditions (fit, lab, equipment, material, etc.) will be provided to the selected fellows. The host organisations have to provide the incoming scientist cooperation and assistance in all administrative matters relating to his/her arrival to Slovakia and to the host organisation. The host organisation has to provide the incoming scientist with adequate conditions for the implementation of his/her research project.

3. Specific programme **PEOPLE**

3.3 Action: Industry-Academia Partnerships and Pathways



AIM

Project ID: 230669

Project Title: Advanced industrial microseismic monitoring

Project website: <http://www.ig.cas.cz/>

Project Start Date: 2009-10-01

Project End Date: 2013-09-30

Project Total Cost: EUR 867 197

Project EC Financial Contribution: EUR 867 197

SLOVAK PARTICIPANT 1

Slovak participant Name: GEOFYZIKALNY USTAV SLOVENSKEJ AKADEMIE VIED, Geophysical Institute of the Slovak Academy of Sciences

Slovak participant address: Dúbravská cesta 9, 845 38 Bratislava

Contact person email/ phone: Lucia Fojtikova; email:geoflufo@savba.sk; phone +421 2 59410611

SLOVAK PARTICIPANT 2

Slovak participant Name: PROGSEIS

Slovak participant address: Hlboká 6, 917 01 Trnava

Contact person email/ phone: Dr. Juraj Sekeres, +421 3 35 501 367, progseis@tbx-net.sk

Partners of the Consortium:

GEOFYZIKALNI USTAV AV CR, V.V.I. – CZECH REPUBLIC
UNIVERZITA KARLOVA V PRAZE – CZECH REPUBLIC
NORSAR INNOVATION AS – NORWAY
ENGINEERING SEISMOLOGY GROUP CANADA INC. – CANADA
ÚSTAV STRUKTURY A MECHANIKY HORNIN AV CR, V.V.I. – CZECH REPUBLIC
ISS INTERNATIONAL LIMITED – SOUTH AFRIC

GEOFYZIKALNY USTAV SLOVENSKEJ AKADEMIE VIED, GEOPHYSICAL INSTITUTE OF THE SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

PROGSEIS- SLOVAKIA

Project Description: The project will be supervised by two top experts in microseismic monitoring Prof. F. Cornet from IPG Strasbourg and Prof. G.R. Foulger from the University of Durham, who have experience with large-scale EU and non-EU projects on natural or induced microseismicity.

Project Objectives: The aim of the project is to stimulate and advance research in microseismic monitoring in areas of prominent social and industrial significance. The project will foster the cooperation between academic researchers in theoretical and observational earthquake seismology, and private research teams monitoring a natural or induced microseismic activity for industrial purposes. The involved academics have a considerable reputation in the fields of moment tensor inversions, interpretations of non-double-couple focal mechanisms, seismic anisotropy, ray tracing, seismic tomography and seismic hazard assessment. The industrial partners are SMEs with high-tech equipments, long-lasting experience in monitoring microseismicity and with adequate research capacities. They can offer datasets with a potential for further fundamental research.

The results of the project will contribute to the seismic hazard assessment of the Bohunice nuclear power plant in Slovakia, the stability of rock slopes in Norway, deep-level gold mines in South Africa and open-pit mines in Canada. The project promotes synergy between four academic institutions in two EU Member States (Czech Republic, Slovakia), with industrial partners from an EU Member State (Slovakia), an AC country (Norway), an ICPC country (South Africa) and from an OTC country (Canada).

In order to establish the firm and beneficial I-A partnership, the project proposes to spend 122 research-months of secondments at the partner institutions (carried out by 11 researchers from the Academia and by 9 researchers from the Industry) and 36 research-months of recruitments (2 recruits).

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: The SAS – Geophysical Institute of the Slovak Academy of Sciences, Bratislava, Slovak Republic (<http://gpi.savba.sk>, www.seismology.sk), Geophysical Institute of the Slovak Academy of Sciences was established 1953, at the establishment of the Slovak Academy of Sciences. Although its fundamental part, the Geomagnetic Observatory at Hurbanovo (Ógyala) has been active since 1885. The institute performs basic research of geophysical fields and phenomena with special regard to the Western Carpathians structure. The research activities are focused on earthquake monitoring and analysis of seismicity and on seismic hazard assessment for the territory of Slovakia, numerical modelling of seismic waves in complex media and seismic ground motion, analysis of the effects of surface geology on earthquake ground motion, focal mechanisms of local and regional earthquakes, and on geological and tectonic interpretations of the active faults areas in the West Carpathians region. The institute has operated the Slovak National Seismic Network. Department of Seismology has participated in several international seismological projects, e.g., NATO linkage Grant Projects, NATO Science for Peace projects, INCO-COPERNICUS Grant Projects, EU projects SESAME, MERIDIAN, NERIES, and Development Programs LAMP, DIRECTE and DIRECTE2, ShareDirecte and DETERMINE, that supported research and collaboration with Uzbekistan, Serbia, Macedonia and Bosnia and Herzegovina. On the national level, they participated in several APVV and VEGA projects.

SK Participant Project Cost: EUR 14 300

SK Participant EC Financial Contribution: EUR 14 300

Project Outcomes planned/real: The aim of the project was to stimulate and advance research in microseismic monitoring in areas of prominent social and industrial significance, and to foster the cooperation between academic researchers in theoretical and observational earthquake seismology and private research teams monitoring a natural or induced microseismic activity for industrial purposes. The involved academics were experienced in analyzing parameters of earthquakes, seismic wave propagation, seismic tomography and seismic hazard assessment. The industrial partners were small enterprises with high-tech equipment, long-lasting experience in monitoring microseismicity and with adequate research capacities.

The project promoted synergy between four academic institutions in the Czech Republic and Slovakia with industrial partners from Slovakia, Norway, South Africa and Canada. The collaboration was realized by visits of 21 researchers from four academic institutions and four industrial institutions, three of whom were recruited post-docs. The project partners developed new schemes for calculating important parameters of microearthquakes.

The developed methods were applied to seismic observations at the Malé Karpaty area, Slovakia (focal zone close to the Jaslovské Bohunice nuclear power plant), and at the West Bohemia seismoactive region in the Czech Republic (the famous spa area). Furthermore, within the project, there was analyzed microseismicity of unstable rock slopes in Norwegian fjords, which can potentially cause local tsunamis, and mining tremors in deep mines in Finland, South Africa and Australia. The analyses contributed to better understanding of origin of natural microearthquakes and of tectonic processes and tectonic stress release associated with rock bursts induced by mining activity.

Slovak Participant's Role in Project: Slovak Participant (GPI SAS) was lead-partner of activities in working package WP4, main industrial partner was Progeis Ltd. Focal mechanisms of several tens of microearthquakes in Malé Karpaty area (Slovakia) were computed using different methods. Uncertainties of locations of microearthquake cluster from August 2006 were improved using the Master event method of relative location. Study of uncertainties in microearthquake locations and in estimation of focal mechanisms with respect to seismic station configuration in the studied area was performed. As the advanced seismic analyses need high-quality observations, a seismic mini-array was installed at the Dobra Voda zone. This mini-array temporarily enhanced the sensitivity of the existing local seismic network operated by an industrial partner. Based on the analyses performed within the project, the Slovak academic and industrial partners in cooperation with the Czech academic partner installed additional 3 seismic stations in the area in order to improve the monitoring and analysis of microseismicity in the area.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 217 959

SK Participant EC Financial Contribution: EUR 217 959

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ALBATROSS

Project ID: 324449

Project Title: Assembling Langmuir-Blodgett Architectures Through the use of Roll-to-roll Systems

Project website: <http://www.ucc.ie/en/>

Project Start Date: 2013-04-01

Project End Date: 2017-03-31

Project Total Cost: EUR 844 602.5

Project EC Financial Contribution: EUR 844 602.5

SLOVAK PARTICIPANT 1

Slovak participant Name: POWERTEC S.R.O.

Slovak participant address: Drotárska 19a, 811 04 Bratislava

Contact person email/ phone: Mrs. Alena Dudekova, +421 903 968 243, info@powertec.sk

SLOVAK PARTICIPANT 2

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University (STUBA)

Slovak participant address: Vazovova 5, 812 43 Bratislava

Contact person email/ phone: Mrs. Michaela Balazova, +421 2 65 423 486, michaela.balazova@stuba.sk

Partners of the Consortium:

UNIVERSITY COLLEGE CORK, NATIONAL UNIVERSITY OF IRELAND, CORK - ÉIRE/ IRELAND

MICROTESTMACHINES ODO – BELARUS

POWERTEC S.R.O.- SLOVAKIA

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY (STUBA)- STUBA

Project Description: The proposal addresses each of the three elements of the so-called 'knowledge triangle', i.e. research, innovation and education. The proposed programme is based partly on nationally funded multidisciplinary (Photonics, Nanoelectronics, Chemistry, Materials Science) projects that have been recently awarded to the partners from Academia and is designed to provide added value from the obvious synergies between these projects. The complementarity will enable the consortium to develop novel products using SiO₂/TiO₂ nanoparticles for improving the properties of solar cells and OLEDs/ OFETs that the first SME partner aims to bring into production. The equipment innovation comes from the planned systematic modifications and improvements to both hardware and software and improvement to both hardware and software of a roll-to-roll Langmuir-Blodgett dipper mechanism that has been developed by the second SME partner.

Project Objectives: Researchers aim at making the final device attractive for potential customers by modifying the existing prototype so that it is compatible with other equipment (LB troughs) already available on the market. The educational and training value of the project is also high in that a number of secondments of research personnel are envisaged, including PhD students. The enhanced commercial opportunities of the device will give the research community direct means of preparing complex photonic and nanoelectronic structures on flexible substrates using a wide range of materials. The innovative roll-to-roll (R2R) mechanism will therefore facilitate the possibility of using the LB technique in a range of new commercially scalable production processes, enabling us to take this technology out of the laboratory and into the factory environment - which will be a truly revolutionary accomplishment and one which is directly aligned with EU requirements.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 112 838

SK Participant EC Financial Contribution: EUR 112 838

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 138 292

SK Participant EC Financial Contribution: EUR 138 292

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

CONPRA

Project ID: 324508

Project Title: Contributing the Preventive Archaeology: Innovativeness, Development and Presentation

Project website: <http://www.viamagna.eu.sk/>

Project Start Date: 2013-01-01

Project End Date: 2016-12-31

Project Total Cost: EUR 467 602.7

Project EC Financial Contribution: EUR 467 602.7

Slovak participant Name: VIA MAGNA S.R.O.

Slovak participant address: Nábřežná 2, 038 61 Vrútky

Contact person email/ phone: Mr. Milan Hornak, +421 908 692 815, hornak.milan@gmail.com

Partners of the Consortium:

UNIVERZA V LJUBLJANI - SLOVENIA

TERRAVERITA SPOL SRO - CZECH REPUBLIC

UNIVERZITET U BEOGRADU - FILOZOFSKI FAKULTET – SERBIA

VIA MAGNA S.R.O.- SLOVAKIA

Project Description: CONPRA project, with its Consortium composition and program, tries to answer some major challenges in the development driven archaeology. With its particular focus on economic and technological circumstances in 'emerging' markets, the major issue is increasing the capacities of SMEs in facing new and changing conditions in their respective countries, and in reinforcing the capacity of academia towards more competitive role in heritage industry. CONPRA will join 4 partners (2 universities and 2 SMEs) from 4 different countries (Slovakia, Czech Republic, Slovenia, Serbia).

Project Objectives: All 4 partners could be considered as leading institutions in their fields of expertise in their countries. All partners intend to employ secondees on their regular projects providing so the major field for gaining new knowledge and skills, as well as to exchange experienced researchers aiding the partner institutions on the spot. ULJ will involve secondees from SMEs into its program of aerial schools (in Slovenia and elsewhere) planned for 2013. The major working of the UBG will be archaeological site of Vin a (10 m deep Neolithic site of extreme international importance for the appearance of early farming in Europe).

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 165 110

SK Participant EC Financial Contribution: EUR 165 110

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

WASCLEAN

Project ID: 612250

Project Title: Water and Soil Clean-up from Mixed Contaminants

Project website: <http://www.saske.sk/wasclean/>

Project Start Date: 2013-10-01

Project End Date: 2017-09-30

Project Total Cost: EUR 2 407 958

Project EC Financial Contribution: EUR 2 407 958

SLOVAK PARTICIPANT 1

Slovak participant Name: Environcentrum s.r.o.

Slovak participant address: Rastislavova 58, 040 01 Košice

Contact person email/ phone: Ing. Peter Sekula, e-mail: sekula@environcentrum.sk, tel. +421556770700

SLOVAK PARTICIPANT 2

Slovak participant Name: USTAV GEOTECHNIKY SLOVENSKEJ AKADEMIE VIED, Institute of Geotechnics, Slovak Academy of Science

Slovak participant address: Watsonova 45, 040 01 Košice

Contact person email/ phone: Dr. Miroslava Václavíková e-mail: vaclavik@saske.sk, tel. +421557922637

Partners of the Consortium:

UNIVERSITY OF BRIGHTON – UNITED KINGDOM
NAZARBAYEV UNIVERSITY – KAZAKHSTAN
BIOMIXANIKIA VAFIA FINIRISTIRIA PLINIRIA ERMHS A. ITIMOYDIS – GREECE
SK EKODOR TOO – KAZAKHSTAN
ARISTOTELIO PANEPISTIMIO THESSALONIKIS – GREECE
MAST CARBON INTERNATIONAL LTD – UNITED KINGDOM

ENVIRONCENTRUM S.R.O- SLOVAKIA

USTAV GEOTECHNIKY SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF GEOTECHNICS, SLOVAK ACADEMY OF SCIENCE- SLOVAKIA

Project Description: The WaSClean project aims to stimulate intersectoral collaboration aiming to develop and scale-up a comprehensive technology for the purification of contaminated land of heavy metals, POPs and synthetic dyes – specifically developing novel Fe/Cu/carbon clean-up devices, as well as utilising SRB, SOB, FeSOB and advanced oxidation techniques for treatment of contaminated land and waters.

Project Objectives: This project aims to develop novel materials and technologies for remediation of contaminated soils and groundwaters from xenobiotics (e.g. man-made) contaminants, via a programme of knowledge exchange and scientific work actions between 8 partner organisations (6 from three EU countries and 2 from an ICPC country). Chemical and biological approaches will be combined to develop novel technologies for removal of toxic metals/metalloids and recalcitrant organic contaminants from contaminated soil and groundwaters. A range of methods based on iron chemistry and biogeochemistry, bioremediation and electrochemical oxidation will be employed at the laboratory and at a pilot/field scale in order to produce integrated clean-up solutions for problem contaminated sites and contaminants. The project brings together a multidisciplinary consortium of specialists

from different areas of contaminated land management, environmental (geo)chemistry, nanotechnology, (geo) microbiology and physical, analytical, synthetic, polymer and surface chemistry, working with the common aim of developing new and efficient methods of contaminant removal from soils and groundwaters.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Environcentrum s.r.o., Slovakia, SME was founded in 1993. At present, it employs 46 employees (16 R&D) and maintains a range of its own special machinery and instrumental equipment, which is necessary for high-quality land recovery. Environcentrum, s.r.o. provides comprehensive services, ranging from geological surveys, sampling of contaminated sites and specifying the nature of pollution, through professional assessment of the extent of the rock environment – underground water ecosystem endangering, design of remediation process, up to the proper recovery and decontamination of media polluted by organic substances. Environcentrum, s.r.o. has a strong professional support for geology exploration, which allows it to obtain relevant data on specific sites.



Environcentrum focuses mainly on the land and ground water recovery polluted by organic substances, and it has developed - in collaboration with the Institute of Geotechnics SAS and with the University of Veterinary Surgery in Kosice - its own technology for decontamination of soils and waters polluted by organic substances. The bacterial based product BIOVITAN has been approved in the biding expert's statement of the Ministry of Health of Slovakia.

SK Participant Project Cost: EUR 341 469.33

SK Participant EC Financial Contribution: EUR 341 469.33 €

Project Outcomes planned/real: The WaSClean project aims to stimulate intersectoral collaboration aiming to develop and scale-up a comprehensive technology for the purification of contaminated land of heavy metals (e.g. Pb, As, Cr, Cd, Hg), POPs (lindane, atrazine, obsolete pesticides) and synthetic dyes (reactive blue, red, black from textile industry), and synthetic dyes – specifically developing novel Fe/Cu/carbon clean-up devices, as well as utilising SRB, SOB, FeSOB and advanced oxidation techniques for treatment of contaminated land and waters.

Specific objectives include development of pilot-scale production of a range of iron-based nanoparticles (zero-valent and divalent FeNP: metallic iron, ferrous oxide and ferrous sulphide) targeting different contaminant

groups and development of novel sorbent materials by incorporating Fe and Fe/Cu nanoparticles (NPs) into activated carbon (AC) hosts with good sorption affinity for both metals and organic pollutants. Study and optimization of the sorption parameters of the novel sorbents for efficient removal of emerging organic contaminants (POPs and synthetic dyes) and metallic pollutants first at lab-scale and then in situ from soils and groundwaters will be performed along with the preparation of biogenic materials for elimination of toxic metallic species from soils and groundwaters. Further, biodegradation of representative persistent organic pollutants (POPs) by mixed microbial populations under reductive/oxidative conditions and degradation of non-bio-degradable recalcitrant organic contaminants (synthetic dyes) by advanced oxidation techniques will be applied. The above techniques will be integrated as a "total treatment solution" or "treatment train" and design of pilot-scale on-site experiments.

Accomplishing these objectives will lead to a coordinated development of innovative soil and groundwater remediation technologies. Iron-based nano/micro materials will be embedded into activated carbon hosts in order to combine their adsorptive and reactive properties. A combination of chemical and biological approaches will be used for effective clean-up of contaminated soils and groundwaters.

Slovak Participant's Role in Project: As SME partner, Environcentrum leads the field works and scale up experiments at contaminated sites in Slovakia. The team leader Mr. Peter Sekula, Director, actively participated in the development of technologies for the removal of POPs and petroleum hydrocarbons from contaminated soils and groundwaters. He has also been involved in state orders related to the disposal of hazardous wastes and illegal landfills. Environcentrum will be responsible for the selection of the contaminated site, description of geology as well as design of the pilot-scale experiment.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Institute of Geotechnics, Slovak Academy of Sciences, Slovakia (former Mining Institute SAS, established in 1954) is a research organisation belonging to the Section of Physical, Space, Earth, and Engineering Sciences of SAS. IGT offers a scientific group with a strong interdisciplinary background, which comprises senior scientists, junior research fellows, PhD students and technicians. The IGT supports the collaboration with industry and in the past it has participated in dust analysis (steel production in Kosice) as well as in the development of treatment technologies of hydrometallurgical wastes.

The IGT group offers a wide range of technologies for the preparation, surface modification/functionalisation and characterisation of materials and has a considerable international reputation in the field of material development as well as adsorption and bioremediation processes. Major expertise of the group lies in the synthesis of adsorbents based on iron nano-oxides/oxyhydroxides, modification/functionalisation of adsorbents with well-defined structures (zeolites, activated carbons, silica) and their application in water and soil remediation processes. The group possesses the expertise in environmental technologies, waste treatment, mineralogy, material science and analytical chemistry. Moreover, IGT group has the necessary knowledge and infrastructure for determining the physical and chemical characteristics defined in the project.

SK Participant Project Cost: EUR 319 924.54

SK Participant EC Financial Contribution: EUR 319 924.54

Project Outcomes planned/real: The WaSClean project aims to stimulate intersectoral collaboration aiming to develop and scale-up a comprehensive technology for the purification of contaminated land of heavy metals (e.g. Pb, As, Cr, Cd, Hg), POPs (lindane, atrazine, obsolete pesticides) and synthetic dyes (reactive blue, red, black from textile industry), and synthetic dyes – specifically developing novel Fe/Cu/carbon clean-up devices, as well as utilising SRB, SOB, FeSOB and advanced oxidation techniques for treatment of contaminated land and waters.

Specific objectives include developing a pilot-scale production of a range of iron-based nanoparticles (zero-valent and divalent FeNP: metallic iron, ferrous oxide and ferrous sulphide) targeting different contaminant groups and developing of novel sorbent materials by incorporating Fe and Fe/Cu nanoparticles (NPs) into activated carbon (AC) hosts with good sorption fitl for both metals and organic pollutants. Study and optimization of the sorption parameters of the novel sorbents for efficient removal of emerging organic contaminants (POPs and synthetic dyes) and metallic pollutants first at lab-scale and then in situ from soils and groundwaters will be performed along with the preparation of biogenic materials for eliminating toxic metallic species from soils and groundwaters. Further, biodegradation of representative persistent organic pollutants (POPs) by mixed microbial populations under reductive/oxidative conditions and degradation of non-bio-degradable recalcitrant organic contaminants (synthetic dyes) by advanced oxidation techniques will be applied. The above techniques will be integrated as a "total treatment solution" or "treatment train" and design of pilot-scale on-site experiments.

Realisation of these objectives will lead to the coordinated development of innovative soil and groundwater remediation technologies. Iron based nano/micro materials will be embedded into activated carbon hosts in order to combine their adsorptive and reactive properties. A combination of chemical and biological approaches will be used for effective clean-up of contaminated soils and groundwaters.

Slovak Participant's Role in Project: Institute of Geotechnics SAS is the coordinator of the WaSClean project. Dr. Miroslava Vaclavikova, coordinator of the consortium, is responsible for ensuring that all partners accede to the contract, distributes funds to the Partners and acts as intermediary in the communication between the consortium and the REA before the start of the project and for the whole duration of it. The research team of the Institute of Geotechnics is responsible for the work package covering the study of biosorption and bio-precipitation and for the study and optimisation of bioremediation of toxic organic pollutants. Moreover, the team is also involved in the activities related to sorption studies as well as degradation of organic pollutants by advanced oxidation techniques.

3. Specific programme
PEOPLE

3.4 Action:
World Fellowships



Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 100 000

SK Participant EC Financial Contribution: EUR 100 000

Project Outcomes planned/real: The main goals of the Project, as outlined in the grant agreement, are as follows: 1) Development of algorithms for bioinformatics; design of new algorithms and probabilistic models for a variety of bioinformatics problems in sequence analysis and gene evolution, their implementation, and application of the resulting tools to the analysis of real biological datasets; 2) Analysis of yeast mitochondrial genomes. A collaboration with the research group of Prof. Nosek at the Faculty of Natural Science in order to study evolution of mitochondrial genomes of pathogenic yeasts, with the focus on rearrangements; 2) Supporting activities; setup and development of a computational environment necessary for bioinformatics research, recruitment and supervision of students, and teaching activities supporting the research in this proposal.

Slovak Participant's Role in Project: We have developed new algorithms for comparative genomic analysis of complex duplicated regions (goal A): an algorithm for reconstruction of evolutionary histories of gene clusters (Vinar et al., 2010), an artificial simulation framework, and an algorithm for automated segmentation of gene clusters (Brejova et al., 2011a). We have applied these algorithms to analyze the evolutionary history of the alpha defensin gene cluster in the primate genomes (Orangutan Genome Sequencing Consortium, 2011) and we have also investigated other theoretical and algorithmic problems stemming out of this research (Brejova et al., 2011b; Kovac et al., 2012). Together with our collaborators from Penn State University and National Human Genome Research Institute, we have become members of an ongoing collaboration for sequencing and analysis of biomedically important complex gene clusters. We are working on improved algorithms for gene cluster analysis through more efficient MCMC sampling, and on making our prototype software tools available to a wider community. In collaboration with Dr. Luptak at the University of California at Irvine, we have developed a new sequence analysis algorithm and software for RNA motif search (Jimenez et al., 2012) that is currently being applied in biochemical research on ribozymes. We have used our experience in RNA motif search to develop a similar framework for contact-rich protein domain search (Macko et al., 2013). We have also studied theoretical and practical problems relevant to annotation of alternative splicing (Kovac et al., 2009) and gene finding in novel genomes (Brejova et al., 2009). Finally, we have continued developing software for identification of gene orthologs and methodology for studying positive selection, which we have applied in several international projects (Panda Genome Sequencing and Analysis Consortium, 2010; Orangutan Genome Sequencing Consortium, 2011; The Western Painted Turtle Genome Consortium, 2013; The Marmoset Genome Sequencing and Analysis Consortium, 2013). In collaboration with the Laboratory of Comparative and Functional Genomics of Eukaryotic Organelles (prof. Nosek, goal B) and with Dr. Brejova at the Department of Computer Science, we have analyzed eight newly sequenced mitochondrial genomes of pathogenic yeasts, with focus on their phylogeny and rearrangement history (Valach et al., 2011). To this end, we have developed a novel algorithm and software for analysis of rearrangement histories based on double-cut-and-join rearrangement model (Kovac et al. 2011a)

and we also studied several theoretical problems in this area (Kovac et al., 2010, 2011b; Jahn et al., 2012). Within the supporting activities (goal C), we have successfully established a computational biology research group at the Faculty of Mathematics, Physics, and Informatics that comprises two principal investigators (Dr. Vinar and Dr. Brejova) and 16 students at all levels of studies (bachelor's, master's, doctoral). Dr. Vinar currently supervises research projects of three doctoral students (Jakub Kovac, Martin Macko, Martin Kravec), and five master students; two bachelor and five masters theses have been completed within the scope of this project so far. The research group maintains stable research collaborations with scientists from Austria, China, Germany, Canada, and the United States. With contribution from a separate grant to Dr. Brejova, we have built a research computing cluster that supports the activities of the research group. To support our research activities, we maintain a weekly seminar on recent topics in computational biology, as well as regular lab meetings. In collaboration with Dr. Brejova (Dept. of Computer Science), prof. Nosek, and prof. Tomaska (Faculty of Natural Sciences), we have developed two courses covering the area of computational biology ("Methods in Bioinformatics" and "Genomics"), and we have started preparations for establishing bioinformatics degree program. We organize common seminars and summer schools. These educational activities (goal C) will ensure sustainability of research in computational biology at our institution.

ALGGENOMES

Project ID: 224885

Project Title: Algorithms for Analysis of Genes and Genomes

Project website: <http://www.uniba.sk/>

Project Start Date: 2009-01-15

Project End Date: 2013-01-14

Project Total Cost: EUR 100 000

Project EC Financial Contribution: EUR 100 000

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

Slovak participant address: Šafárikovo nám. 6, 818 06 Bratislava

Contact person email/ phone: E-mail: vinar@fmph.uniba.sk, sefranek@ii.fmph.uniba.sk

Partners of the Consortium: -

Project Description and Objectives: The aim of this project is to propose new algorithms and probabilistic models for analysis of biological sequences (genomes and proteins encoded by them). The Project tries to concentrate mainly on computer science aspects, striving to design efficient algorithms capable of processing large biological data sets that are currently available. In collaboration with molecular biologists, it will apply techniques to several bioinformatics problems, such as finding the location of genes in genomic sequences, evolution of duplicated regions of the genome, and study of mitochondrial genomes of yeast. Finding better solutions for these problems will lead to better genome annotations available as a basic resource for biological and medical researchers. In addition to the research objectives, the plan is to establish a lasting collaboration between the computer science researchers at the Faculty of Mathematics, Physics and Informatics and the life science researchers from the Faculty of Natural Science at Comenius University, Bratislava. It will involve faculty members and students from both faculties in common research projects, seminars and other activities. Dr. Tomas Vinar has experience with interdisciplinary bioinformatics research at leading universities in Canada and U.S.A., which makes him an ideal candidate for this effort.

BIOSEQANALYSIS

Project ID: 231025

Project Title: Computational methods for biological sequence analysis with application to evolution of yeast mitochondrial genomes

Project website:

Project Start Date: 2009-01-01

Project End Date: 2012-12-31

Project Total Cost: EUR 100 000

Project EC Financial Contribution: EUR 100 000

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

Slovak participant Address: SAFARIKOVO NAM 6, 818 06 BRATISLAVA 16

Contact person: Rastislav KRALOVIC, +421 2 60 295 470, Dr. Bronislava Brejova, bb248@cornell.edu, +421 2 59 244 248

Coordinator: UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA- SLOVAKIA

Project Description and Objectives: Modern molecular biology relies on high-throughput technologies to generate large quantities of data about components of living cells and on sophisticated mathematical and computational techniques for analyzing this data. We will develop new algorithms and probabilistic models in areas of comparative genomics, gene finding, and homology search. In particular, we propose a new class of evolutionary models for modeling changes in exon structure of protein coding genes. These models have applications in gene finding and ancestral sequence reconstruction. We will also develop more efficient methods for homology search in large databases containing families of related sequences.

Finally, we will apply both existing and new methods to comparative analysis of mitochondrial genomes in *Candida* genus. Some of these genomes have linear chromosomes terminated with telomere-like structures similar to eukaryotic nuclear chromosomes, yet of independent evolutionary origin. By studying these sequences, we aim to address fundamental questions of evolution of linear genomes and telomeric regions, and evolution of binding specificity in DNA binding proteins. This interdisciplinary project will be carried out in cooperation with researchers from both computer science and biology at Comenius University in Bratislava.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 100 000

SK Participant EC Financial Contribution: EUR 100 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

BROWN DWARF

Project ID: 200297

Project Title: Brown Dwarfs and Extrasolar Planets

Project website: <http://www.ta3.sk/>

Project Start Date: 2007-10-01

Project End Date: 2010-09-30

Project Total Cost: EUR 75 000

Project EC Financial Contribution: EUR 75 000

Slovak participant Name: ASTRONOMICKY USTAV SLOVENSKEJ AKADEMIE VIED, Astronomical Institute of The Slovak Academy of Sciences

Slovak participant address: Tatranská Lomnica 059 60

Contact person email/ phone: budaj@ta3.sk

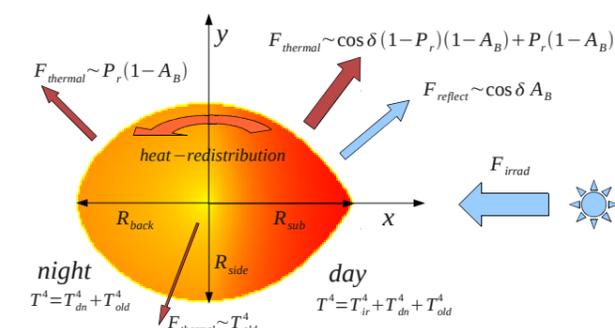
Partners of the Consortium: -

Project Description and Objectives: The project will verify if the magnetospheric accretion works in such objects and put the constraints on the duration of the accretion phase. Alternatively, it may lead to a discovery of unique low mass binary systems or transiting extrasolar planets. The researcher also aims to perform computer simulations and study the synthetic light-curves and spectra of accreting brown dwarfs as well as the synthetic lightcurves, spectra and transit radius spectra of the extrasolar planets. It is hoped that, by comparing these simulations with the existing and future observations, new species will be identified in the atmospheres of the extrasolar planets. For this purpose, the researcher will create a new version of the computer code SHELLSPEC and will make it available to the astronomical community on the web with the complete documentation.

Profile of Slovak Participant/ -s: Astronomical Institute is one of the top research institutions in Slovakia. It belongs to the Slovak Academy of Sciences. The headquarters is situated in Tatranska Lomnica in the High Tatra Mountains in the north of Slovakia. Several observatories are harboured by the institute: Skalnaté Pleso Observatory, Lomnický štít Observatory, and Stará Lesná Observatory as well as a small group of researchers in Bratislava.

SK Participant Project Cost: EUR 75 000

SK Participant EC Financial Contribution: EUR 75 000



Project Outcomes planned/real: A new model of the reflection effect which can be used for both interacting binaries as well as extrasolar planets has been developed. Light-curves and/or spectra of several exoplanets have been modeled. It has been found that HD189733b has a low Bond albedo and intense heat redistribution, while Wasp-19b has a low Bond albedo and low heat redistribution.

The exact shape and temperature distributions over the surface of all currently known transiting extrasolar planets have been calculated.

Departures from the spherical shape may vary considerably. In some cases these departures can reach 8, 12, or 14%, for WASP-33b, WASP-19b, and WASP-12b, respectively.

We have studied the day-night side cooling of an irradiated planet and demonstrated that the cooling on the day and the night side of a strongly irradiated planet may not be equal. This is relevant for the evolution of the planet and should be considered in the future evolutionary models.

The researcher and his team developed and started a project to observe extrasolar planet transits in Slovakia. Two dozen transits were observed. Radii of WASP-10 and Corot-Exo-2 were improved and constraints put on planet parameters and presence of other planets in these systems. Our observations of brown dwarfs and low mass stars with the Kuiper telescope in Arizona did not confirm previously reported variability in some objects.

The researcher and his student Tereza Krejcová found evidence for the planet-star interaction and planet induced variability of the host star based on their observations with the ESO 2.2m telescope and available Keck data.

Slovak Participant's Role in Project: This grant was the FP7 international reintegration grant for the researcher to carry out his research in the field of extrasolar planets and brown dwarfs in his home country.

CO-EXIN

Project ID: 269177

Project Title: Technological and design aspects of extrusion and injection moulding of thermoplastic polymer composites and nanocomposites

Project website: <http://www.pollub.pl/>

Project Start Date: 2011-04-11

Project End Date: 2015-03-31

Project Total Cost: EUR 165 300

Project EC Financial Contribution: EUR 165 300

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice

Slovak participant address: Letná 9, 042 00 Košice

Contact person email/ phone: prof. Ing. František Greškovič, CSc., frantisek.greskovic@tuke.sk, +421-55-602 2165

Partners of the Consortium:

POLITECHNIKA LUBELSKA – POLANDWESTSACHSISCHE HOCHSCHULE ZWICKAU – GERMANY

TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE- SLOVAKIA

Project Description and Objectives: The most important objective of the project is to strengthen the research and didactic potential of researchers, particularly early stage researchers employed by universities acceding to the project. Thanks to training, seminars, and research, the researchers will acquire new experience in the field of processing of advanced thermoplastic polymer composites by means of machines with screw plasticizing systems of innovative and original design. The staff exchange as well as the synergy and the mutual complementation will contribute to the transfer of knowledge between the individual partners, i.e. between European Union research centres and a third country university in Ukraine, taking part in the project.

The workload will be divided into four Work Packages. Each partner will be responsible for one issue. The single screw extrusion of thermoplastic composites will be conducted at the Lublin University of Technology (Poland), while the twin screw extrusion at the West Saxon University of Applied Science in Zwickau (Germany). Activities connected with the injection moulding will be carried out at the Technical University of Kosice (Slovakia). Experiments on the properties of thermoplastic composites will be performed at the Lviv Polytechnic National University (Ukraine). The expected results include: knowledge transfer, improvement of the qualifications of staff members, initiation and further strengthening of cooperation at a high scientific and technological level, and defining the vision of a further development of research on extrusion and injection moulding of advanced materials and the design of plasticizing systems in single- and twin-screw extruders, which should result in new research projects. In consequence, a permanent, long-term collaboration with Ukraine will be developed. The consortium will become more open to future cooperation with other research institutions in the European Union and worldwide.

Profile of Slovak Participant/ -s: Technical University of Kosice (TUKE) consists of nine faculties with around

16 000 full-time undergraduate students. There are 900 academic employees and the same number of research and administrative staff. Technical University of Kosice is the driver of ICT innovation and development in the Slovakia region. The main faculties related to business, innovation and networked economy are the Faculty of Economics, Engineering and Informatics and BERG. Their research projects (FP5, FP6, FP7) focus on business networking, socio-economic analysis of ICT impact, e-business, trust building in the business networks, knowledge management, web technologies, logistics, eGovernment and regional development. Mission of TUKE is to provide its environment with scientific and technological knowledge basis, innovation and workforce, in order to form beneficial and sustainable future and high quality of life. This will be achieved at TUKE by innovative research and excellent education in all scientific branches of respective University Faculties. Because of our scientific excellence we are the most successful organization in FPx projects in Slovakia, esp. in IST. TUKE is active in knowledge transfer, regional development and influencing public life through participation in several clusters and associations, esp. IT Valley, CEIT, ALADIN, etc. or in a very close cooperation with self-governing regions, regional municipalities, ministries, chambers of commerce and relevant regional and national stakeholders.

SK Participant Project Cost: EUR 62 700

SK Participant EC Financial Contribution: EUR 62 700

Project Outcomes planned/real: Tasks planned for the previous period have been met. Research results have been published in indexed journals. In addition, three patent applications have been filed. We currently have a problem with traveling to Ukraine, but by the end of 2014 we want to meet all the objectives.

Slovak Participant's Role in Project: Participant 2 - Technical University of Kosice (TUKE), Slovakia: The most important objective of the project is to strengthen the research and didactic potential of researchers, particularly the early stage researchers employed by universities acceding to the project. Thanks to training, seminars, and research, the researchers will acquire new experience in the field of processing of advanced thermoplastic polymer composites by means of machines with screw plasticizing systems of innovative and original design. The staff exchange as well as the synergy and the mutual complementation will contribute to the transfer of knowledge between the individual partners, i.e. between European Union research centres and a third country university in Ukraine, taking part in the project.

The workload will be divided into four Work Packages. Each partner will be responsible for one issue. Single screw extrusion of thermoplastic composites will be conducted at the Lublin University of Technology (Poland), while twin screw extrusion at the West Saxon University of Applied Science in Zwickau (Germany). Activities connected with injection moulding will be carried out at the Technical University of Kosice (Slovakia). Experiments on the properties of thermoplastic composites will be performed at the Lviv Polytechnic National University (Ukraine).

The expected results include: knowledge transfer, improving the qualifications of staff members, initiation and strengthening of cooperation at a high scientific and technological level, and defining the vision of the further development of research on extrusion and injection moulding of advanced materials and the design of plasticizing systems in single- and twin-screw extruders, which should result in new research projects. In consequence, a permanent, long-term collaboration with Ukraine will be developed. The consortium will become more open to future cooperation with other research institutions in the European Union and worldwide.

ECONANOSORB

Project ID: 295260

Project Title: Ecological application of nanosorbents on the base of natural and synthetic ionites and carbons

Project website: <http://www.lurederra.es/>

Project Start Date: 2012-05-01

Project End Date: 2016-04-30

Project Total Cost: EUR 378 100

Project EC Financial Contribution: EUR 378 100

Slovak participant Name: TECHNICKA UNIVERZITA VO ZVOLENE, Technical University in Zvolen

Slovak participant address: Ul. T. G. Masaryka 24, 960 53 Zvolen

Contact person email/ phone: Dr. Rastislav Lagaňa, lagana@vsld.tuzvo.sk, +421 4 55 206 364

Partners of the Consortium:

L'UREDERRA, FUNDACION PARA EL DESARROLLO TECNOLOGICO Y SOCIAL - SPAIN

UNIVERSITA CA' FOSCARI VENEZIA - ITALY

CARL VON OSSIETZKY UNIVERSITAET OLDENBURG – GERMANY

TECHNICKA UNIVERZITA VO ZVOLENE, TECHNICAL UNIVERSITY IN ZVOLEN- SLOVAKIA

Project Description: The proposed research project brings together European universities and research centres from Spain, Italy and Germany and three participant institutions from Russian Federation and Ukraine. It builds on existing international projects under the Seventh Framework programme and will enhance the already active collaboration in the field of environmental protection.

Project Objectives: The main aim of the proposal is to create conditions for mutual research among similarly orientated European research institutions and overcome existing gap between research institution and wood processing industry. The main objectives are: supporting and improving human and research potential, expanding research cooperation in European research area, spreading the output of the research on the both European and international level. Some of the project outputs are exchanging know-how with experienced research entities in Europe, Russia and Ukraine organizing conferences, creating strategic research plan for forest products based sector, improving tools for research results dissemination and online service for forest based industry sector. Increasing production of wood processing industry within Europe, with limited resources of renewable wood raw material, creates needs for more efficient, effective and knowledge based utilization of this raw material. The project consists of the following work-package Preparation, characterization of nano-materials from natural and synthetic ionites for adsorption of industrial toxicants; Preparation, characterization and application of combined adsorbents on the base of carbon nano-materials; Application of nanosorbents for wastewaters and air purification and utilization in nano-composite materials; Development of a sensor of industrial toxicants and biomedical devices on the base of nano-materials; Risk and impact assessment related to production and application of nano-materials in the wood industry as well as Project coordination.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 77 900

SK Participant EC Financial Contribution: EUR 77 900

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

FOLPSEC

Project ID: 295050

Project Title: FUNCTIONING OF THE LOCAL PRODUCTION SYSTEMS IN THE CONDITIONS OF ECONOMIC CRISIS (COMPARATIVE ANALYSIS AND BENCHMARKING FOR THE EU AND BEYOND)

Project website: <http://www.unwe.bg/en/pages/3245/folpsec.html>

Project Start Date: 2012-04-01

Project End Date: 2015-03-31

Project Total Cost: EUR 571 900

Project EC Financial Contribution: EUR 571 900

Slovak participant Name: UNIVERZITA MATEJA BELA V BANSKEJ BYTRICI, Matej Bel University

Slovak participant address: Národná 12, 974 01 Banská Bystrica

Contact person email/ phone: Ing. Stanislav Kološta, PhD., +421 48 446 2729, stanislav.kolosta@umb.sk

Partners of the Consortium:

UNIVERSITY OF NATIONAL AND WORLD ECONOMY - BULGARIA

UNIwersytet Łódzki – POLAND

UNIVERZITA MATEJA BELA V BANSKEJ BYTRICI, MATEJ BEL UNIVERSITY- SLOVAKIA

Project Description and Objectives: The project aims at deepening the theoretical studies on LPS and at encouraging their practical implementation. In doing so, it tries to meet the challenges related to overcoming the world crisis. FOLPSEC has the following objectives:

To exchange knowledge on research approaches in studying LPS (research theses and micro-theses, as well as hypotheses for their acceptance/rejection) and to make recommendations for implementation of EU best practice in the conditions of economic crisis;

To share partners' results on LPS functioning concerning economic and social regional acceleration and relative overcoming of regional disparities;

To make use of the gained knowledge and good practices identified for research and teaching purposes at all partner institutions;

To establish long-term research cooperation between MS and Third countries and to strengthen research partnerships through staff exchange and network activities.

Profile of Slovak Participant/ -s: Matej Bel University, as part of the European educational and research space, contributes by providing high quality higher education and further lifelong education in order to ensure practice and development of new scientific knowledge and creative arts, and research the development of a wise, moral, authentic and socially responsible personality, and thus creating a learning society. Matej Bel University (MBU), established in 1992, is a public University located in the centre of Slovakia, in the city of Banská Bystrica. Currently, it has six faculties. MBU has approximately 600 employees, which are qualified for research activities (i.e. PhD degree or higher), and approximately 10 500 students. Matej Bel University has the highest status of academic and research institutions under the Slovak legislation – 'the University status'. Cooperating with more than 30 Universities world-wide, it implements the EU objectives in development of the international relations, in accordance with the Declaration of Bologna. In June 2013, UMB successfully passed a certification audit of the quality system as required by the international standard ISO 9001:2008.



SK Participant Project Cost: EUR 184 300

SK Participant EC Financial Contribution: EUR 184 300

Project Outcomes planned/real: The project aims at deepening the theoretical studies on LPS and on encouraging their practical implementation. In doing so, it tries to meet the challenges related to overcoming the world crisis. The main objectives are to establish a long-term research cooperation between MS and Third countries, and to strengthen research partnerships through staff exchange and network activities.

Slovak Participant's Role in Project: The main role of UMB is dedicated to scientific meetings comprising workshops, seminars, discussions organised during the secondments at the host partner. These meetings will provide a platform for direct exchange of scientific ideas and concepts. Their purpose is to bring together knowledge and experience, to discuss obtained research results and scientific papers and in doing so, accomplish the knowledge transfer. Project members publish their research works in monographs and journals.

IRNET

Project ID: 612536

Project Title: International research network for study and development of new tools and methods for advanced pedagogical science in the field of ICT instruments, e-learning and intercultural competences

Project website: <http://www.us.edu.pl/>

Project Start Date: 2014-01-01

Project End Date: 2017-12-31

Project Total Cost: EUR 415 000

Project EC Financial Contribution: EUR 415 000

Slovak participant Name: UNIVERZITA KONSTANTINA FILOZOFA V NITRE, Constantine the Philosopher University in Nitra

Slovak participant address: Tr. A. Hlinku 1, 949 74, Nitra

Contact person email/ phone: Dr. Martin Drlik, +421 3 76 408 678, dfpv@ukf.sk

Partners of the Consortium:

UNIWERSYTET SLASKI - POLAND
UNIVERSITEIT TWENTE - NETHERLANDS
UNIVERSIDAD DE EXTREMADURA - SPAIN
OSTRAVSKA UNIVERZITA V OSTRAVE - CZECH REPUBLIC
FUNDACAO MINERVA CULTURA ENSINO E INVESTIGACAO CIENTIFICA - PORTUGAL

Project Description: The IRNet project aims to set up a thematic multidisciplinary joint exchange programme dedicated to research and development of new tools for advanced pedagogical science in the field of ICT instruments, distance learning and intercultural competences in EU (Poland, Netherlands, Spain, Portugal, Slovakia) and Third Countries (Australia, Russia, Ukraine). The programme will strengthen existing collaboration and establish new scientific contacts through mutual secondments of researchers.

Project Objectives: The main objectives of the project are:
1. To exchange expertise and knowledge in the field of the innovative techniques of education between EU and Third Countries and suggest effective strategies of implementing new tools in their profession;
2. To analyse and evaluate social, economic, legal conditions, as well as methodologies and e-learning techniques being developed in the European and Third Countries involved.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 69 200

SK Participant EC Financial Contribution: EUR 69 200

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

LEARN 2 HEAR & SEE

Project ID: 247543

Project Title: Perceptual, Contextual, and Cross-modal Learning in Hearing and Vision

Project website: <http://www.upjs.sk/>

Project Start Date: 2010-05-01

Project End Date: 2013-10-31

Project Total Cost: EUR 162 000

Project EC Financial Contribution: EUR 151 200

SLOVAK PARTICIPANT 1

Slovak participant Name: UNIVERZITA PAVLA JOZEFA SAFARIKA V KOSICIACH, Pavol Jozef Šafárik University in Košice

Slovak participant address: Šrobárova 2, 041 80 Košice

Contact person email/ phone: Mr. Jozef Gajdos, jozef.gajdos@upjs.sk, +421 55 234 2122

SLOVAK PARTICIPANT 2

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice

Slovak participant address: Letná 9, 042 00 Košice

Contact person email/ phone: Mr. Andrea Kalafusova, andrea.kalafusova@tuke.sk, +421 5 56 022 181

Partners of the Consortium:

THE UNIVERSITY OF EDINBURGH - UNITED KINGDOM

UNIVERZITA PAVLA JOZEFA SAFARIKA V KOSICIACH, PAVOL JOZEF ŠAFÁRIK UNIVERSITY IN KOŠICE- SLOVAKIA

TECHNICKA UNIVERZITA V KOSICIACH, TECHNICAL UNIVERSITY KOŠICE- SLOVAKIA

Project Description: N/A

Project Objectives: The current project proposes to use behavioural experiments, brain imaging, and computational modelling to study the processes of learning and calibration in 1) auditory distance perception in human listeners and 2) visual spatial perception. A series of behavioural experiments will study 1) how human listeners recalibrate their auditory processing in order to correctly perceive distance of sound sources, how they consolidate and memorize the new calibrations, and how is vision used in the calibration process, and 2) the relationship between perceptual and contextual learning. Imaging studies will analyse the brain areas important for auditory distance perception and the time course of learning and calibration, as well as the structures influenced by perceptual and contextual learning. Finally, models of 1) auditory distance perception and of 2) perceptual and contextual learning will be proposed with stress on the mechanisms of learning and calibration. These results are important, e.g., for development of new prosthetic devices and new virtual reality technologies. An important goal of the proposal is to obtain new knowledge and skills related to studying human perceptual processes. Skills to perform sensory learning research, visual psychophysics using eye-tracking, non-invasive brain imaging (EEG and fMRI), and computational modelling will be exchanged during the stays. The skills will help in development of computational and cognitive neuroscience in new EU member countries (Slovakia), as well as in strengthening the ERA (collaboration between Slovakia and the UK). Finally, this proposal will establish a new long-term collaboration between EU and US researchers.



SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 59 400

SK Participant EC Financial Contribution: EUR 54 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Technical University of Kosice (TUKE) consists of nine faculties with around 16 000 full-time undergraduate students. It has 900 academic employees and the same number of research and administrative staff. Technical University of Kosice is the driver of ICT innovation and development in the Slovakia region. The main faculties related to the business, innovation and networked economy are the Faculty of Economics, Engineering and Informatics and BERG. Their research projects (FP5, FP6, FP7) focus on business networking, socio-economic analysis of ICT impact, e-business, trust building in the business networks, knowledge management, web technologies, logistics, eGovernment and regional development. The mission of TUKE is to provide its environment with scientific and technological knowledge basis, innovation and workforce, in order to form beneficial and sustainable future and high quality of life. This will be achieved at TUKE by innovative research and excellent education in all scientific branches of respective University Faculties. Because of our scientific excellence, we are the most successful organization in FPx projects in Slovakia, especially in IST. TUKE is active in knowledge transfer, regional development and influencing public life through participation in several clusters and associations, esp. IT Valley, CEIT, ALADIN, etc. Or in very close cooperation with self-governing regions, regional municipalities, ministries, chambers of commerce and relevant regional and national stakeholders.

SK Participant Project Cost: EUR 56 700

SK Participant EC Financial Contribution: EUR 54 000

Project Outcomes planned/real: In the first auditory experiment, we showed that room-specific learning in auditory distance perception occurs when listeners are spontaneously judging distance in a specific room over the course of several days. We also showed that this learning is faster, if the listeners are instructed to focus on the distance to which they can extract information from the room reflections of the sound. In the second auditory experiment, we showed that the process of room learning for distance perception is strongly influenced by the type of stimuli to which the listener is initially exposed. If the stimuli provide a lot of room-related and consistent un-related information, then quick learning occurs. On the other hand, if it is difficult to create an association between the stimuli and room characteristics, then the learning is much slower. In the third experiment, we were, to our knowledge, the first ones to identify the human brain areas responsible for processing of auditory distance information. We used the functional Magnetic Resonance Imaging technique and virtual acoustics technique to simulate sources of varying distance. A fourth series of experiments showed a strong effect of visual stimuli on auditory distance perception. These experiments for the first time examined systematically compared ventriloquism effect and after effect in the auditory distance domain.

Slovak Participant's Role in Project: original coordinator; later coordination transferred to UPJS.

META

Project ID: 269182

Project Title: Materials enhancements for technological applications

Project website: <http://web.uniroma2.it/>

Project Start Date: 2011-06-01

Project End Date: 2015-05-31

Project Total Cost: EUR 548 100

Project EC Financial Contribution: EUR 403 200

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava, Department of Nuclear Physics and Biophysics, faculty of Mathematics, Physics and Informatics

Slovak participant address: Šafárikovo nám. 6, 818 06 Bratislava

Contact person email/ phone: Prof. RNDr. Tibor Hianik, DrSc., Phone: +421 2 60295683, E-mail: hianik@fmph.uniba.sk

Partners of the Consortium:

UNIVERSITA DEGLI STUDI DI ROMA TOR VERGATA – ITALY

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA, DEPARTMENT OF NUCLEAR PHYSICS AND BIOPHYSICS, FACULTY OF MATHEMATICS, PHYSICS AND INFORMATICS- SLOVAKIA

Project Description and Objectives: META (Materials Enhancement for Technological Applications) aims to address the fundamental new challenges related to the development of new functionally structured materials, and to gain a deep understanding of the structure and dynamics of nanostructured matter on multiple length and time scales. Basic science investigation will be driven by the accomplishment of technology development for nanodevices, through experimental and theoretical interdisciplinary studies, aimed at endowing materials with specific local properties. Two types of devices will be investigated: DNA planar architectures exploitable as META goal is to establish a strong collaborative network between research centres in the EU (Italy, Slovakia) and in the USA. Such collaboration is addressed to tackle the variety of scientific and technological issues raised by enhancement and engineering of functional properties of materials, both at the nano and meso scale. Several bilateral visits, training workshops and meetings are planned with the framework of the project. Education will also be an important issue in this project, since exchange of graduate students and the opportunity of creating a joint PhD initiative is programmed. META will thus amplify the collaborative links between the EU and the USA, giving European Scientists the opportunity of achieving rapid access to the world's top laboratories. The project meetings and conferences will attract scientists from other universities and industrial companies, which would be highly beneficial for the present partner institutions and ERA in whole.

Profile of Slovak Participant/ -s: In conducting research, the laboratory of Biophysics at the Department of Nuclear Physics and Biophysics of the Faculty of Mathematics, Physics and Informatics of the Comenius University in Bratislava focused on the development of biosensors using nanotechnologies and various modern physical methods for the analysis of surfaces and affinity interactions, such as atomic force microscopy, thickness shear mode acoustic method, ultrasound spectroscopy, Fourier transform infrared spectroscopy, fluorescence resonance energy transfer, laser ellipsometry, and various electrochemical methods. The research is focused also on the study of the mechanisms of lipid bilayers-nanoparticles and monolayers-nanoparticles interaction and, using Langmuir-Blodgett technique, Doppler laser velocimetry and dynamic light scattering methods. The laboratory participates in various international projects funded by EU FP7 and COST schemes and in projects within the framework of cross-border cooperation between Slovakia and Hungary. We have also conducted several bilateral projects with JKU Linz, University Lodz, University of Athens, Moscow State University and Kazan University, as well as projects supported by Slovak grant agencies APVV and VEGA. The laboratory consists of 5 research staffs, 4 PhD students and several diploma and bachelor students. Thanks to Erasmus agreement with JKU LINZ, NTNU Trondheim and UCD Dublin, the students have the possibility of conducting research also in collaborating laboratories. Several scholarships of foreign students have been realized in our laboratory, thanks to Slovak international scholarship program (www.scholarship.sk). The current researches on the project META in collaboration with ENEA and University Tor Vergata, Rome, Italy as well as Oak Ridge National Laboratories, USA (ORNL) are focused on the nanofabrication of surfaces for biosensing applications, bioengineering of DNA aptamers and detection of affinity interactions at surfaces using acoustics and AFM methods. Thanks to the support of EU FP7, the PhD students from the laboratory have the possibility of long-term stay in ORNL.

SK Participant Project Cost: EUR 178 500

SK Participant EC Financial Contribution: EUR 132 300

Project Outcomes planned/real: Nanofabrication of surfaces based on DNA origami for biosensing application using DNA aptamers as receptors.

Slovak Participant's Role in Project: Role in the project is nanofabrication of surfaces for biosensing application, bioengineering of DNA aptamers and detection of affinity interactions at surfaces, using acoustics and AFM methods.

MONINTERFLUOPROT

Project ID: 256580

Project Title: Monitoring of cell signaling pathways via interaction of fluorescently tagged proteins

Project website:

Project Start Date: 2010-06-01

Project End Date: 2013-05-31

Project Total Cost: EUR 75 000

Project EC Financial Contribution: EUR 75 000

Slovak participant Name: UNIVERZITA PAVLA JOZEFA SAFARIKA V KOSICIACH, Pavol Jozef Šafárik University in Košice

Slovak participant address: Šrobárova 2, 041 80 Košice

Contact person email/ phone: Dr. Katarína Štroffeková, katarina.stroffekova@upjs.sk, +421 5 52 346 243

Partners of the Consortium: -

Project Description: The foundation of this program is laid out within EU structural fund projects CEVA I and II and SEPO I and II. The applicant, Dr. Štroffeková has advanced knowledge of cell physiology and biophysics, and was therefore approached to participate in the design and planning of the infrastructure for above mentioned EU projects, and to carry on her further research at the Department of Biophysics.

Project Objectives: The specific objectives of the present project are to introduce new research methodologies that will be used within infrastructure and to expand the scientific potential at the Department of Biophysics. Specifically, the project will introduce and establish electrophysiological measurements by whole cell patch clamp, site-directed mutagenesis and creation of fluorescent fusion proteins (FFPs) for application in con-focal microscopy and fluorescence resonance energy transfer (FRET) measurements, and immuno-cytochemistry. All these methodologies will be used in novel approach to quantify the onset and modulation of apoptosis by FFPs, which will expand research capabilities for a molecule targeted photodynamic therapy in malignant cells. The proposed project and its funding will greatly improve applicant's abilities to establish a continuation and transfer of her research from USA to Slovakia, to introduce proposed methodologies in the Department of Biophysics, and to firmly anchor her long term career in Slovakia.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 75 000

SK Participant EC Financial Contribution: EUR 75 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

NLAMATHMODELS

Project ID: 239429

Project Title: Nonlinear Analysis in Mathematical Models: Heat Damage, Stability of Nonlinear Waves and Spectral-Scattering Problems

Project website:

Project Start Date: 2009-10-21

Project End Date: 2013-10-20

Project Total Cost: EUR 100 000

Project EC Financial Contribution: EUR 100 000

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

Slovak participant Address: SAFARIKOVO NAM 6, 818 06 BRATISLAVA 16

Contact person: Dr. Richard Kollar, kollar@umich.edu, +421 2 59 244 248

Coordinator: UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA- SLOVAKIA

Project Description and Objectives: The major obstacle in mathematical modeling in science that is also responsible for the variety of different phenomena appearing is its nonlinear nature. Richard Kollar's field of research is nonlinear analysis that includes mathematical modeling and the study of existence and stability of coherent structures as nonlinear waves, vortices, and defects, appearing in models ranging from nonlinear optics, or condensed matter physics to chemical processes in human brain. The value of these problems lies not only in their far-reaching consequences for applications, but also in the interesting mathematics underlying them. The goal of the three projects in this proposal is to gain insight by studying interesting particular applied problems, and apply it to build and simplify the general theory.

The goal of the first project is to study heat damage of cells, particularly during burn injuries and hyperthermic cancer treatments. Based on his current research, Kollar proposes to extend his mathematical model to include important effects as increased vascular permeability or three-dimensional nonhomogeneous environment. In the second project Kollar, in collaboration with R. Pego, B. Deconinck and N. Kutz, studies stability of certain nonlinear waves. Besides other investigations it requires an extension of the Evans function technique for detection of unstable eigenvalues to three-dimensional and non-local problems. The third project, in collaboration with P. Miller, proposes to use Krein signature and Pontryagin spaces in the study of inverse scattering-spectral problems. The idea discussed in the proposal is to use Krein signature to restrict the position of spectra for potentials satisfying a single-lobe condition introduced by Klaus and Shaw. A prominent common feature of this proposal is a very novel approach to classical problems and the unification of different theories.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 100 000

SK Participant EC Financial Contribution: EUR 100 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

PLANT DNA TOLERANCE

Project ID: 612587
Project Title: Plant adaptation to heavy metal and radioactive pollution
Project website: <http://www.aber.ac.uk/en/>
Project Start Date: 2013-11-01
Project End Date: 2017-10-31
Project Total Cost: EUR 285 000
Project EC Financial Contribution: EUR 285 000

Slovak participant Name: USTAV GENETIKY A BIOTECHNOLGII RASTLIN SLOVENSKEJ AKADEMIE VIED, Institute of Plant Genetics and Biotechnology, Slovak Academy of Sciences

Slovak participant address: Akademická 2, 950 07 Nitra

Contact person email/ phone: Martin Hajduch, PhD
e-mail: hajduch@savba.sk, Tel.: +421-37-6943346

Mrs. Henrieta Kvapilová, henrieta.kvapilova@savba.sk, +421 3 76 943 363

Partners of the Consortium:

ABERYSTWYTH UNIVERSITY - UNITED KINGDOM
GEORG-AUGUST-UNIVERSITAET GOETTINGEN STIFTUNG OEFFENTLICHEN RECHTS - GERMANY
USTAV EXPERIMENTALNI BOTANIKY AV CR - CZECH REPUBLIC

USTAV GENETIKY A BIOTECHNOLGII RASTLIN SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF PLANT GENETICS AND BIOTECHNOLOGY, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description and Objectives: This project aims to understand the basic principles of protective mechanisms and how such pollution affects the stability of the genome. We propose to establish a research network to evaluate and exploit unique resources in the Chernobyl zone and in mining sites (Wales, UK) as “open area” laboratories, for studying how changes of DNA are coordinated with internal cellular networks during plant response to these pollutants. We use a combination of genetic, cell biological, molecular and evolutionary strategies. Part of the project is devoted to crop plants and their ability to grow in contaminated sites, with the idea to increase productivity and safety. For the first time, eight research teams with complementary experience in radiation and other plant stresses will cooperate, in order to solve the common European problem of survival in contaminated environment. This will provide the insights on an increasingly detailed knowledge of the regulatory mechanisms for plant stress tolerance, and provide an opportunity to see how the problems of Chernobyl and other contaminated places could be solved by scientists, and it will give us an idea of what could be done in order to secure human life against environmental pollution.

Profile of Slovak Participant/ -s: Institute of Plant Genetics and Biotechnology (IPGB) is one of the institutes of Slovak Academy of Sciences. The IPGB consists of three departments: i) Molecular Biology and Biotechnology, ii) Population Genetics and Breeding, and iii) Reproduction and Developmental Biology. The research programme is focused on the improvement of genetic traits of ergonomically

important crops through genetic transformation, investigation of population structure of coniferous species and their hybrids, characterization of plant embryogenesis and seed development, and plant response on various abiotic stresses. The IPGB uses variety of cytological, genomic and proteomics techniques in its research programs.

SK Participant Project Cost: EUR 66 500

SK Participant EC Financial Contribution: EUR 66 500

Project Outcomes planned/real: We propose to establish a research network to evaluate and exploit unique resources in the Chernobyl zone and in mining sites (Wales, UK) as “open area” laboratories for studying how changes of DNA are coordinated with internal cellular networks during plant response to these pollutants. We use a combination of genetic, cell biological, molecular and evolutionary strategies.

Part of the project is devoted to crop plants and their ability to grow in contaminated sites with the idea to increase productivity and safety. For the first time, eight research teams with complementary experience in radiation and other plant stresses will cooperate in order to solve the common European issue of survival in contaminated environment. This will provide the insights on an increasingly detailed knowledge of the regulatory mechanisms for plant stress tolerance, and provide an opportunity to see how the problems of Chernobyl and other contaminated places could be solved by scientists, and it will give us an idea of what could be done in order to secure human life against environmental pollution.

Slovak Participant's Role in Project: Slovak participant IPGB will work on work package 5, “Investigation of stress-related proteins” and WP6, “Investigation of crop plant ability to grow on contaminated soils in the Chernobyl” zone. The project contains 8 WPs in total. IPGB will grow wheat and rye in the Chernobyl experimental spots, in order to check how radioactive and remediated soils affect the growth of crop plants. Plants will also be grown in the National Plant Phenomics Centre (UK) in heavy metal contaminated soils. The morphological parameters, chromosome aberrations and germline mutation rate in crop plants will be investigated. IPGB will also analyse quantitative changes in the proteome and phosphoproteome of developing seeds of cereal crops grown in the Chernobyl experimental fields. IPGB will also test methylation status of genes possibly involved in adaptation reactions.

PROTEOMICS OF CHERNO

Project ID: 200165

Project Title: The quantitative proteomics analysis of developing embryo, endosperm and seed coat in control and Chernobyl-grown plants

Project website:

Project Start Date: 2007-09-03

Project End Date: 2011-09-02

Project Total Cost: EUR 100 000

Project EC Financial Contribution: EUR 100 000

Slovak participant Name: USTAV GENETIKY A BIOTECHNOLGII RASTLIN SLOVENSKEJ AKADEMIE VIED, Institute of Plant Genetics and Biotechnology, Slovak Academy of Sciences

Slovak participant address: Akademická 2, 950 07 Nitra

Contact person email/ phone: e-mail: Dr. Martin Hajduch, hajduch@savba.sk, +421-37-6943346

Partners of the Consortium: -

Project Description and Objectives: In this proposal, quantitative protein reference maps will be used to identify differentially expressed proteins in developing embryo, endosperm and seed coats of Chernobyl-grown plants compared to control. These reference maps will be generated during five stages of soybean and flax seed development, using two-dimensional electrophoresis (2-DE) in combination with liquid chromatography connected with tandem mass spectrometry (LC-MS/MS) for protein identification.

Profile of Slovak Participant/ -s: The Institute of Plant Genetics and Biotechnology (IPGB) is one of the institutes of Slovak Academy of Sciences. The IPGB consists of three departments: 1) Molecular Biology and Biotechnology; 2) Population Genetics and Breeding; and 3) Reproduction and Developmental Biology. The research program focused on improvement of genetic traits of ergonomically important crops through genetic transformation, investigation of population structure of coniferous species and their hybrids, characterization of plant embryogenesis and seed development, and plant response on various abiotic stresses. The IPGB use variety of cytological, genomic and proteomics techniques in its research programs.

SK Participant Project Cost: EUR 100 000

SK Participant EC Financial Contribution: EUR 100 000

Project Outcomes planned/real: The recent tragedy at the Fukushima Nuclear Power Plant in Japan is sadly reminiscent of the nuclear disaster at Chernobyl Nuclear Power Plant (CNPP). The explosion of one of the four reactors of the CNPP on 26 April 1986 released vast amounts of radioactive material into the atmosphere, much of which was subsequently deposited not only in the vicinity of the power plant in Ukraine, Belarus, and Russia, but also over large parts of Europe. Now, 25 years after the accident, Chernobyl soil remains contaminated with long-lived radioisotopes, ucha s 137Cs and 90Sr. Surprisingly, the regional flora has adapted enough so that a UN report on Chernobyl stated officially that the ecosystem in the area has been restored. This unexpected ability of plants to adapt to radioactive environment is still not well understood. In order to elucidate molecular mechanisms used by plants to grow and successfully reproduce in the Chernobyl radioactive area, soybean and flax of local varieties were grown in radioactive and control Chernobyl fields (Fig. 1). Developing and mature seeds were harvested on yearly basis and subjected to comparative proteomics investigation.

Based on the analysis of mature seeds, working models for plant adaptation to high level of radioactivity in the Chernobyl area were proposed (Danченко et al., 2009; Klubicova et al., 2010). The publication of these results was well received by the scientific community and general public. There was an interview published in one of the leading journals in proteomics, The Journal of Proteome Research. This research was commented on in the major international multi-disciplinary scientific journals such as Science, New Scientist, The New York Times, BBC and CNN.

Slovak Participant's Role in the Project: Slovak participant, IPGB, performed and coordinated the entire research and outputs from this project.

WOGYMARKET

Project ID: 626128

Project Title: Workers, Gypsies, and the Market: The Anthropology of New Fascism in Eastern Europe

Project website: N/A

Project Start Date: 2014-11-01

Project End Date: 2017-02-28

Project Total Cost: EUR 254 025.33

Project EC Financial Contribution: EUR 254 025.33

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

Slovak participant address: Šafárikovo nám. 6, 814 99 Bratislava

Contact person: Dr. Juraj Buzalka, juraj.buzalka@fses.uniba.sk, +421 904 881 384

Coordinator:

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-SLOVAKIA

Project Description: This research focuses on how market transformation gives rise to new patterns of politics that among some social groups in Eastern Europe emerge as new fascism. By focusing on two social groups that have encountered the most significant transformation in effect of the economy re-structuring after state-socialism and whose positions caused the major challenges for academics and policy makers – i.e. heavy industry workers and Roma/ Gypsies - the project aims to offer a new perspective on the anthropology of social and political movements in Europe. Building upon long-time fieldwork in Slovakia, Poland and Ukraine, the project investigates how individualism and market calculation in what one can call post-peasant setting after state-socialism have paved the way for populist movements that have increasingly taken anti-Roma attitudes among social groups that have not previously shown sensitivity to ethnic conflict or neo-fascist protests. The anthropology of new fascism therefore analyses the social and political movement from the ordinary perspective of everyday economic models, balancing the dominant view on macro-structural or identity-centred 'culturalist' approaches.

Project Objectives: Theoretically, the project combines the recent dialogue of anthropology and economy with literature on transformations of politics, particularly in a post-socialist setting. The project aims to argue that the current rise of populism and neo-fascism in Eastern Europe can only partially be explained as being the effect of neoliberal globalization. It is argued, instead, that the perspective on the everyday distribution of power in post-peasant society and how it has been reproduced via uneven development alongside the changes in livelihood strategies under the market proliferation into the spheres previously dominated by community reciprocity shall be investigated in order to develop a new theory in the field of anthropology of social and political movements in/of Europe.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 254 025.33

SK Participant EC Financial Contribution: EUR 254 025.33

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

3. Specific programme **PEOPLE**

*3.5 Action:
Specific Actions*



E*CARE

Project ID: 221898

Project Title: European Career of Researchers

Project website: <http://www.certh.gr/>

Project Start Date: 2008-08-01

Project End Date: 2011-07-31

Project Total Cost: EUR 228 906

Project EC Financial Contribution: EUR 228 906

Slovak participant Name: SAIA, n. o.

Slovak participant address: Nám. Slobody 23, 812 20 Bratislava

Contact person email/ phone: Katarína Košťálová, katarina.kostalova@saia.sk,
+421 2 54 411 464; Karla Zimanová, karla.zimanova@saia.sk

Partners of the Consortium:

ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXISCENTRE FOR
RESEARCH AND TECHNOLOGY HELLAS CERTH EKETAANAPTYXIS – GREECE

Participants: SOFIISKI UNIVERSITET SVETI KLIMENT OHRIDSKI – BULGARIA

ETHNIKO IDRYMA EREVNON – GREECE

RESEARCH PROMOTION FOUNDATION – CYPRUS

BUNDESMINISTERIUM FÜR WISSENSCHAFT UND FORSCHUNG BMWF – AUSTRIA

EIDGENÖSSISCHE TECHNISCHE HOCHSCHULE ZÜRICH – SWITZERLAND

TUDOMANYOS ES TECHNOLOGIAI ALAPITVÁNY – HUNGARY

STŘEDISKO SPOLEČNÝCH ČINNOSTÍ AV ČR V.V.I. – CZECH REPUBLIC

SAIA, n. o. - SLOVAKIA

Project Description and Objectives: The overall goal of the E*CARE project is cogently formulated as follows: to strengthen the services of ERA-MORE members in support of researchers mobility, and to enhance the collaboration among Mobility Centres with different background on the basis of shared experience, practices and tools. The wider strategic goal of the project is to support EC efforts for building a single labour market for researchers, and the ERA as a whole.

Furthermore, the following, more specific objectives have been identified:

- to gather structured information on remaining and emerging obstacles concerning researcher's career and mobility, and on recent trends at national level;
- to develop a guide for best practices related to services provided to mobile researchers by other organizations, and the country approaches, in order to bridge the researchers career and mobility barriers;
- to strengthen the competences of MCs staff through twinning and exchange of best practices and experience with more mature MCs.



Profile of Slovak Participant/ -s: SAIA, n. o. is a non-profit organisation that came to existence in 1990. It has got experience from administration of different mobility programmes for university students, PhD students, university teachers and researchers within bi-lateral and multilateral programmes. Currently, SAIA runs offices in six university towns with 25 employees. In 2013, the overall budget for scholarships and projects in all programmes totalled almost 2.1 million EUR, including operational and other programme costs. SAIA also plays an important role in the promotion of academic mobility in Slovakia, and is considered by public institutions as a highly relevant partner in the creation of legal environment for academic and scientific mobility in Slovakia. SAIA has been involved in EURAXESS activities since 2004 as Bridgehead Organisation, EURAXESS Service Centre and portal manager. As a EURAXESS network member, SAIA has participated in several FP7 projects like the E*CARE project, focusing on strengthening the services of EURAXESS network members in support of researchers' mobility. Within the EURAXESS T.O.P. II project, SAIA has been responsible for the Task focusing on the preparation and coordination of capacity building mobility activities. SAIA is also a WP leader in TANDEM project focusing on integration and dual career services as positive means for stimulating and/or reinforcing brain circulation. SAIA was recently approved as Coordinator of another FP7 project – REFLEX – addressing systematic and focused career development, increasingly important for both researcher and their employers.

SK Participant Project Cost: EUR 13 269

SK Participant EC Financial Contribution: EUR 13 269

Project Outcomes planned/real: The overall goal of the E*CARE project was to strengthen the services of EURAXESS network members in support of researchers' mobility, and to enhance the collaboration among Mobility Centres with different background on the basis of shared experience, practices and tools. The wider strategic goal of the project was to support EC efforts for building a single labour market for researchers, and the ERA as a whole. E*CARE activities focused mainly on exploring the current mobility obstacles at the 8 partner countries (Greece - Coordinator, Austria, Bulgaria, Cyprus, Czech Republic, Hungary, Slovakia, Switzerland) with the emphasis on researchers' career development. The partners focused on the developing tools and practices that enhanced their knowledge on the issue of researchers' mobility, improved the services provided to researchers by exchanging good and bad practices and finding common solutions, strengthened their position inside the EURAXESS Network, and they collaborated on developing tools available to all members of the EURAXESS Network, aiming at identifying and documenting the tangible and non-tangible, local, national and international resources supporting researchers mobility. The consortium developed 8 E*CARE National Reports on trends and problems in the area of researchers' mobility and career development, highlighting the strengths and weaknesses of each participating country in the project through a careful examination of the practical implementation of the European policy initiatives, relating to the enhancement of the researchers' mobility and the development of the researchers' career.

Slovak Participant's Role in Project: SAIA participated in all project activities, contributing to the Best Practices Guide, a collection of best practices in the field of researchers' mobility and career development. Another deliverable was the Think-Tank tool, the main idea of which was to provide members of the EURAXESS Network with tools helping them meet researchers'/stakeholders' needs in new ways, create solutions to satisfy these needs, and deliver sustainable and viable solutions relevant to particular environments. The tools created are the end-results of a series of "collaborative learning experience" exercises tested on national level. The consortium organised eight national seminars with two-folded aim: to promote to national stakeholders the results of the national survey on mobility obstacles, and the results of the National Reports on trends and problems in the area of researchers' mobility and career development, and to launch a national debate on the topic, so as to improve the national research environment.

EURAXESS T.O.P II

Project ID: 295345

Project Title: Enhancing the Outreach and Effectiveness of the EURAXESS Network Partners

Project website: <http://www.fecyt.es/fecyt/home.do?sessionId=B746898A47923777130AB85D60CA3CFE>

Project Start Date: 2012-01-01

Project End Date: 2014-12-31

Project Total Cost: EUR 3 488 799.6

Project EC Financial Contribution: EUR 2 999 983

Slovak participant Name: SAIA, n. o.

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Partners of the Consortium:

FUNDACION ESPANOLA PARA LA CIENCIA Y LA TECNOLOGIA - SPAIN
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SIHTASUTUS ARCHIMEDES - ESTONIA
MASINSKI FAKULTET - UNIVERZITETA U NISU - SERBIA
SIHTASUTUS EESTI TEADUSAGENTUUR - ESTONIA
IRISH UNIVERSITIES ASSOCIATION - ÉIRE/IRELAND
MACEDONIAN ACADEMY OF SCIENCES AND ARTS - THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA
BAY ZOLTAN ALKALMAZOTT KUTATASI KOZHASZNU NONPROFIT KFT. - HUNGARY
CENTRE FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE
TUDOMANYOS ES TECHNOLOGIAI ALAPITVANY - HUNGARY
FONDAZIONE CRUI PER LE UNIVERSITA ITALIANE - ITALY
NORGES FORSKNINGSRAD - NORWAY
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EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZURICH - SWITZERLAND
AGENCIJA ZA MOBILNOST I PROGRAME EUROPSKE UNIJE (AGENCY FOR MOBILITY AND EU PROGRAMMES) - CROATIA
CONFERENCE DES PRESIDENTS D UNIVERSITE - FRANCE
INSTITUTE OF TECHNOLOGY AND DEVELOPMENT FOUNDATION - BULGARIA
STREDISKO SPOLECNÝCH CINNOSTI AV CR V.V.I. - CZECH REPUBLIC
SAIA, N. O. - SLOVAKIA

Project Description: The EURAXESS network is a pan-European initiative in 37 countries with national web portals and over 200 Service Centres (ESCs) and Local Contact Points (LoCPs) at research institutions, established to facilitate researcher mobility by providing key practical information and qualified hands-on assistance to mobile researchers.

Project Objectives: In EURAXESS TOP2, which builds from EURAXESS TOP and other related EU- projects, key people from 17 Partners and 13 Associate Partners join forces to enhance the overall performance, quality, effectiveness and coherence of the information and services delivered by the network, by exchange of best practices achieved over the years, training sessions and updating the portals. The interlinked Work Packages and Tasks include Charter & Code, Social Security & Pensions, Open Recruitment, Industry/ Innovation, Skills, Portals, Capacity Building, Electronic Handbook updates, Promotion, and Strategic Dialogue with key stakeholders. Expected impacts: improved services + enhanced recruitment and mobility of researchers.



Profile of Slovak Participant/ -s: SAIA, n. o. is a non-profit organisation that came to existence in 1990. It has got experience from the administration of different mobility programmes for university students, PhD students, university teachers and researchers within bi-lateral and multilateral programmes. Currently, SAIA runs offices in six university towns with 25 employees. In 2013, the overall budget for scholarships and projects in all programmes totalled almost 2.1 million EUR, including operational and other programme costs. SAIA also plays an important role in the promotion of academic mobility in Slovakia, and is considered by public institutions as a highly relevant partner in the creation of legal environment for academic and scientific mobility in Slovakia. SAIA is involved in EURAXESS activities from 2004 as Bridgehead Organisation, EURAXESS Service Centre and portal manager. As a EURAXESS network member SAIA has participated in several FP7 projects like the E*CARE project, focusing on strengthening the services of EURAXESS network members in support of researchers' mobility. Within the EURAXESS T.O.P. II project, SAIA has been responsible for the Task, focusing on the preparation and coordination of capacity building mobility activities. SAIA is also a WP leader in TANDEM project, focusing on integration and dual career services as positive means for stimulating and/or reinforcing brain circulation. SAIA was recently approved as the Coordinator of another FP7 project – REFLEX – addressing systematic and focused career development, increasingly important for both researchers and their employers.

SK Participant Project Cost: EUR 36 060

SK Participant EC Financial Contribution: EUR 32 153.5

Project Outcomes planned/real: Advanced research and knowledge-based innovation are keys to develop a sustainable and globally competitive high-tech industry in Europe. Early access to front-line research results demands recruitment of, and collaboration between, world-class researchers. Reduction of legal and practical barriers to transnational mobility is then imperative. Interdisciplinary, intersectoral and geographical mobility must be facilitated by providing key practical information and qualified hands-on assistance to mobile researchers within ERA, open to the world – in line with the Lisbon Agenda (2000), the Researchers' Charter & Code (2005), Scientific VISA (2005), the ERA Green Paper (2007), the Ljubljana process (2008), the Europe 2020 Strategy (2009), the Europe 2020 Flagship Initiative – Innovation Union (2010), and the process towards the new Common Strategic Framework (2011). The EURAXESS network is a pan-European initiative in 40 countries, with national web portals and over 200 Service Centres established to facilitate researcher mobility by providing key practical information and qualified hands-on assistance to mobile researchers. In EURAXESS T.O.P. II, building on EURAXESS TOP and other related EU-projects, key people from 17 Partners and 13 Associate Partners join forces, to enhance the overall performance, quality, effectiveness and coherence of the information and services delivered by the network, by exchange of best practices achieved over the years, training sessions and updating of portals. The interlinked Work Packages include Charter & Code, Social Security & Pensions, Open Recruitment, Industry/ Innovation, Skills, Portals, Capacity Building, Electronic Handbook updating, Promotion, and Strategic Dialogue with key stakeholders. Expected impact: improved services and enhanced recruitment and mobility of researchers.

Slovak Participant's Role in Project: SAIA has been appointed as the Leader of Task T3.4 – Study Visits. This task aims to facilitate the exchange of knowledge and good practice in the whole EURAXESS Network, and to develop the network's capacity and knowledge through building more strategically oriented partnerships. This has been implemented in the form of study visits, carried out as individual mobility within Europe. These study visits enable network members to make bi-lateral study visits to other partners of the network, in order to learn about the services provided and about best practices of these partners. Study visits also allow to attend events of network members in another country, or to attend national events (in other countries) with a European dimension and international events (conferences, fairs etc.) inside Europe, having strong impact on building new partnerships within the Network.

TANDEM

Project ID: 324285

Project Title: Talent and Extended Mobility in the European Innovation Union

Project website: <http://www.euraxess-tandem.eu/>

Project Start Date: 2012-10-01

Project End Date: 2014-09-30

Project Total Cost: EUR 337 591.78

Project EC Financial Contribution: EUR 278 628

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Partners of the Consortium:

EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZURICH - SWITZERLAND

Participants: TARTU ULIKOOL - ESTONIA

KØBENHAVNS UNIVERSITET - DENMARK

CENTRE FOR RESEARCH AND TECHNOLOGY HELLAS – GREECE

SAIA, N. O. - SLOVAKIA

Project Description: The two-year project (1 October 2012 - 30 September 2014) that will join forces between experienced Dual Career and Recruiting offices and Euraxess Service Centres. The team members from four different academic institutions in Europe will strengthen Euraxess Service Centres activities by adding a complimentary focus on dual career and integration aspects.

Project Objectives: The TANDEM proposal aims at strengthening these activities by adding a complimentary focus on dual career aspects.

TANDEM will analyse the basic requirements for the successful implementation of Dual Career and Integration Services (DCIS), and develop a systematic and modular approach to these services, which will allow universities and research institutions in the ERA to put together a customized set of DCIS, according to their specific needs, goals, social and cultural border conditions. Besides, TANDEM will focus on brain circulation and on how DCIS change a brain drain into a brain gain situation.

While it is true that both men and women are affected by mobility, it is universally acknowledged that it is more difficult for women to successfully pursue a scientific career, as they have to reconcile work and home responsibilities. By implementing well-structured DCIS, it will be possible to prevent young women researchers from abandoning a promising scientific career, just because they are faced with insurmountable obstacles. Thus, TANDEM will contribute to a more gender-balanced and diverse scientific workforce in Europe, and thereby promote the goals of the European Innovation Union for the social and economic benefit of the European Society.

Profile of Slovak Participant/ -s: SAIA, n. o. is a non-profit organisation that came to existence in 1990. It has got experience with administration of different mobility programmes for university students, PhD students, university teachers and researchers within bi-lateral and multilateral programmes. Currently, SAIA runs offices in six university towns with 25 employees. In 2013, the overall budget for scholarships and projects in all programmes totalled almost 2.1 million EUR, including operational and other programme costs. SAIA also plays an important role in the promotion of academic mobility in Slovakia, and is considered by public institutions as a highly relevant partner in the creation of legal environment for academic and scientific mobility in Slovakia. SAIA has been involved in EURAXESS activities since 2004 as Bridgehead Organisation, EURAXESS Service Centre and portal manager. As a EURAXESS network member, SAIA has participated in several FP7 projects, like the E*CARE project, focusing on strengthening the services of EURAXESS network members in support of researchers' mobility. Within the EURAXESS T.O.P. II project, SAIA has been responsible for the Task, focusing on the preparation and coordination of capacity building mobility activities. SAIA is also a WP leader in the TANDEM project, focusing on integration and dual career services, as positive means for stimulating and/or reinforcing brain circulation. SAIA was recently approved as the Coordinator of another FP7 project – REFLEX – addressing systematic and focused career development, increasingly important for both researchers and their employers.

SK Participant Project Cost: EUR 45 120

SK Participant EC Financial Contribution: EUR 40 232

Project Outcomes planned/real: Mobility represents a key factor at the early stages of researchers' careers. Over the last years, the EU has started a number of initiatives to facilitate mobility in ERA, most prominently the EURAXESS Services Network. The TANDEM proposal aims at strengthening these activities, by adding a complimentary focus on dual career aspects. Young researchers are increasingly on the move as dual career couples. Therefore, universities and research institutions are challenged to accommodate the needs and ambitions of dual career couples, if they want to attract the most talented young researchers. TANDEM will analyse the basic requirements for the successful implementation of Dual Career and Integration Services (DCIS), and develop a systematic and modular approach to these services, allowing universities and research institutions in the ERA to put together a customised set of DCIS, according to their specific needs, goals, social and cultural border conditions. Besides, TANDEM will focus on brain circulation and on how DCIS change a brain drain into a brain gain situation. It is universally acknowledged that it is more difficult for women to successfully pursue a scientific career when they have to reconcile work and home responsibilities. By implementing well-structured DCIS, it will also be possible to prevent young women researchers from abandoning a promising scientific career just because they are faced with insurmountable obstacles. Thus TANDEM will contribute to a more gender-balanced and diverse scientific workforce in Europe, and promote the goals of the European Innovation Union for the social and economic benefit of the European Society.

Slovak Participant's Role in Project: TANDEM is a project of 5 partners from Denmark, Estonia, Greece, Slovakia, and Switzerland, coordinated by ETH Zurich. The main objective of WP2 'An alternative Dual Career and Integration Services (DCIS) strategy: Brain Circulation: turning temporary brain drain into long term brain gain', led by SAIA, is to define and promote a strategy for using DCIS as a measure to influence brain circulation. The new instruments will allow new member states and countries with a traditionally high brain drain percentage to counteract this negative trend effectively, and to translate this alternative Integration Services Strategy into particular services implemented in practice. Through the modularization of DCIS, the major issue on brain drain and brain gain will be addressed. WP has 3 Tasks - T2.1: Analysis of mobility patterns; T2.2 Phrasing alternative strategies and promoting DCIS as means to stop brain drain and increase brain gain; T2.3 Pilot implementation of an alternative DCIS Strategy: integrating DCIS into EURAXESS services.

RN2007SVK

Project ID: 200294

Project Title: Science Alive: Researchers' Night 2007 in Slovakia

Project website: <http://sovva.sk/index.php?id=noc-vyskumnika1>

Project Start Date: 2007-06-01

Project End Date: 2007-12-31

Project Total Cost: EUR 59 600

Project EC Financial Contribution: EUR 53 300

Partners of the Consortium:

Slovak participant 1- SLOVENSKA ORGANIZACIA PRE VYSKUMNE A VYVOJOVE AKTIVITY (SOVVA) - COORDINATOR

Slovak participant 2- SLOVENSKA AKADEMIA VIED (SLOVAK ACADEMY OF SCIENCES - SAS)

Slovak participant 3- I-EUROPA SRO

SK Participant 1 Project Cost: EUR 29 914

SK Participant 1 EC Financial Contribution: EUR 23 614

SK Participant 2 Project Cost: EUR 17 936

SK Participant 2 EC Financial Contribution: EUR 17 936

SK Participant 3 Project Cost: EUR 11 750

SK Participant 3 EC Financial Contribution: EUR 11 750

Project Description: In Slovakia, the majority of researchers were not used to communicating with the general public in an accessible and non-technical way. They found it useless. As a result, it might be said that despite the fact that researchers in the Slovak Republic achieved internationally recognized results (e.g. nominations for the Descartes Prize for researchers from the Slovak Academy of Sciences in 2007), they were almost invisible in the society and at the same time, they lacked sufficient communication skills and could not see their crucial role of entering into and staying in dialog with the society as one of their tasks – tasks, which are in their own interest.

Therefore, specifically to the circumstances in Slovakia, the implementation of the project was also designed to act as a catalyst for communication between scientists and the society as a whole, and researchers were the target group. The aim was to show Slovak researchers that various stakeholders from the general public can become very interested in their work and can enjoy interacting with science. The main purpose of the Researchers' Night 2007 project, the main event of which took place on 28 September was to bring relevant stakeholders, mainly the general public and researchers together through innovative means of science communication characterized by a strong European spirit and dimension of the planned activities.

Project Objectives: The objectives of organizing this event were: improving the image of scientists in the eyes of the society, to point to the attractiveness of a research career, to emphasize the presence of science in our everyday lives, to explain natural phenomena, to raise awareness in science and technology, to let researchers see the growing interest of the public in their work, to show strong European and international spirit of being a researcher and to establish the event as a national tradition. The project was implemented through the following activities/events: awareness campaign, science show Science Alive!, Photography Exhibition, Drawing Competition, Universities at Night, Author Readings, Sky at Night and Nature at Night.

Project Outcomes planned/real:

Estimated number of participants: 2 100

Number of participants – actual events held: 6 490

RN2008SVK

Project ID: 228796

Project Title: Researchers' Night in Slovakia 2008: The Stars you don't know about yet

Project website: <http://www.sovva.sk/noc-vyskumnika-2008>

Project Start Date: 2008-06-01

Project End Date: 2008-12-31

Project Total Cost: EUR 69 059.68

Project EC Financial Contribution: EUR 50 000

Partners of the Consortium:

Slovak participant 1- SLOVENSKA ORGANIZACIA PRE VYSKUMNE A VYVOJOVE AKTIVITY (SOVVA) - COORDINATOR

Slovak participant 2- SLOVENSKA AKADEMIA VIED (SLOVAK ACADEMY OF SCIENCES - SAS)

Slovak participant 3- I-EUROPA SRO

SK Participant 1 Project Cost: EUR 24 261.8

SK Participant 1 EC Financial Contribution: EUR 15 740

SK Participant 2 Project Cost: EUR 15 759.09

SK Participant 2 EC Financial Contribution: EUR 13 163

SK Participant 3 Project Cost: EUR 29 038.79

SK Participant 3 EC Financial Contribution: EUR 21 097

Project Description: Based on the well-received Researchers' Night 2007 event, the 2008 event was again a project based on interactive presentation of Slovak scientists and science. The current mood in the society fostered a growing need to introduce researchers as people who are engaged in solving the current problems of our society. The project presented scientists as "stars you don't know about yet," researching in direct relation to everyday life. It was a partial aim to present the potentially attractive career of a scientist to the young generation. The 2008 project followed the concept set by the 2007 event, drew on the project title and logo but used more efficient communication methods. With the professional experience of SOVVA team members and those of each partner of the consortium, coming from the sphere of science, public policy and media, there was an ambition to attract an even wider portion of the public. The highlight of the activities that were organized during the night of 26th September 2008 was a large science show in one of the biggest retail and leisure centres in Bratislava. Other activities included those within the EU corner and many hands-on experiments, presentations and simulations, and music performances by a university researchers' group and by a jazz band from the Slovak Academy of Sciences, science café talks, an exhibition of photos taken by researchers as well as other activities organized by universities. The photography competition organized for secondary school and university students was not only interesting because it showed how students interpret scientists through photography but it has been also helpful in attracting their attention to the project. One of the most important aspects of this project was an efficient awareness campaign related to the project, as it was vital for the success of the project. We used modern and attractive communication instruments such as an interactive and graphically interesting website including profiles of researchers, a banner campaign placed at frequently attended web portals and the like.

Several key messages were conveyed to the society:

researchers are ordinary people with extraordinary and highly interesting jobs,

science is important for the present and for the future development of our society,

researchers are the ones who can address the concerns of the society,

excellence in science is inevitable for us all,

both Europe and our country care about researchers.

Project Objectives:

The above-stated makes it clear that the main objective of the project, i.e. to bring researchers closer to the general public via activities and events organized within the project, was successfully accomplished. Presenting the researchers as “ordinary people” with who the public can identify, can help convince more young people to embark on scientific careers. Such a result can be considered the most important long-term objective. By the 2007 event, a significant step was taken in strengthening the image of a scientist’s job and in eventually improving the human potential of science in Slovakia.

Two main countable objectives of the RESEARCHERS’ NIGHT IN SLOVAKIA 2008 project had been set:

to gather at least 3 000 visitors of events and to address an overall number of 150 000 people by the individual means of the awareness campaign during Researchers’ Night 2008 in Slovakia

to modify researchers’ public perception in line with the above mentioned

The main specific objectives of the project were to:

improve the image of scientists in the eyes of the public and increase their recognition and prestige,

point out the attractiveness of a research career and to introduce it to the young generation,

emphasize the existence of science in our everyday lives,

explain natural phenomena to the general public in a friendly and accessible manner,

contribute to the raising awareness of general public in science and technology and their importance for our future,

show researchers the growing interest of society in their work and importance of their pro-active role in communicating with other sections of society,

show strong European and international spirit of being a researcher and establishing the event “Researchers’ Night” as a national tradition.

Project Outcomes planned/real:

Comparing the events “Researchers’ Night 2007” and “Researchers’ Night 2008” we found out the following signs of progress made in the 2008 event:

More attractive programme on the stage showing that researchers are normal people,

More researchers willing to participate in the project,

More types of stages than in 2007,

The 2008 campaign reached a wider portion of the general public than in 2007,

More kinds of communication channels were used (successful awareness campaign),

Eliminating the flaws of the first event,

More entertaining programme taking place on the main stage than in 2007 (more exhibitions, more attractive performers),

More catchy visuals of the stages (therefore more inviting),

Higher number of universities involved due to higher interest in participating,

A broader range of smaller events held in the same place

More interactive and colourful webpage of the project (providing more information to public).

Estimated number of participants: 3 930

Number of participants – actual events held: 8 071

RN2009SVK

Project ID: 245080

Project Title: Researchers’ night in Slovakia 2009

Project website: <http://www.sovva.sk/noc-vyskumnika-2009/>

Project Start Date: 2009-06-01

Project End Date: 2009-12-31

Project Total Cost: EUR 62 075.2

Project EC Financial Contribution: EUR 55 000

Partners of the Consortium:

Slovak participant 1- SLOVENSKA ORGANIZACIA PRE VYSKUMNE A VYVOJOVE AKTIVITY (SOVVA)- COORDINATOR

Slovak participant 2- SLOVENSKA AKADEMIA VIED (SLOVAK ACADEMY OF SCIENCES - SAS)

Slovak participant 3- I-EUROPA SRO

SK Participant 1 Project Cost: EUR 36 121.6

SK Participant 1 EC Financial Contribution: EUR 33 022

SK Participant 2 Project Cost: EUR 17 070

SK Participant 2 EC Financial Contribution: EUR 14 575

SK Participant 3 Project Cost: EUR 8 883.6

SK Participant 3 EC Financial Contribution: EUR 7 403

Project Description: The project is based on the warmly welcomed previous events of the Researchers’ Night 2007 and 2008. Each year, this European initiative gains popularity among a variety of stakeholders in Slovakia, ranging from policymakers, top-level academia to individual researchers and general public. There still is some room for improvement and therefore we decided to change the overall strategy of the project and the main concepts in the following way:

researchers as ordinary people - as the level of awareness of activities during the night had already reached a very high level, we were finally able to direct the focus towards researchers as ordinary people. This was different in the previous years, in which we had to foreground the science shows in order to attract a large number of people to an event of this kind.);

regionalization of the events in 2009 project; in previous years, emphasis had been placed on the concentration of people in one place and the main event was the very central part of the project. In 2009 we changed our approach and designed the project as a nation-wide set of activities with three centres, where different sets of events took place – while the main event still took place in Bratislava, we planned more activities in Zilina and Kosice;

breakthrough in awareness campaign in 2009 based on previous experience. We diversified the awareness campaign activities in order to achieve even better impact and reach more people than in the previous years.

The change of the strategy fully reflected previous years’ evaluation reports of RN project proposals for Slovakia. Our main motivation behind the change of strategy was to maximize the impact of the project. The project aimed to be an integral part of a several-day science festival in Slovakia and to form the most important part of it. Fulfilment of objectives was carefully evaluated in impact assessment activities. Activities during the night fully reflected the above-mentioned strategy and included the following:

Poster Competition: Imagine the Researchers’ Night 2010;

Photo Exhibition for Researchers - Drawing Competition;

Main event Researchers’ Night in Slovakia 2009: Science is Life;

Science Cafés;

Local events held at universities and research institutions.

Project Objectives: Taking into account all of the above-mentioned, we had decided to set up the following main objectives of the RESEARCHERS’ NIGHT IN SLOVAKIA 2009 project:

to gather at least 3 000 visitors of events and to address an overall number of 150 000 people by the individual means of the awareness campaign during the Researchers’ Night 2009 in Slovakia

reaching breakthrough in the perception of researchers in Slovakia by the general public.

Project Outcomes planned/real: Based on experience gained in the organization of the project in the previous years we had decided to extend the awareness campaign. Advertisements in various forms were placed in scientific periodicals but we also ran the campaign in commercial media. The goal defined in the project stated that the awareness campaign reach 250 000 people. The success of the awareness campaign is underlined by the fact that in the year 2007 the event in the Botanical Garden was visited by approx. 150 people, while in 2009 about 1 000 visitors came. The overall estimated number of physically present research participants at the events was 3 500 people.

Estimated number of participants: 5 918

Number of participants – actual events held: 18 839.

RN2010SVK

Project ID: 265856

Project Title: RESEARCHERS' NIGHT IN SLOVAKIA 2010

Project website: <http://www.sovva.sk/noc-vyskumnika-2010>

Project Start Date: 2010-06-01

Project End Date: 2010-12-31

Project Total Cost: EUR 57 860

Project EC Financial Contribution: EUR 50 000

Partners of the Consortium:

Slovak participant 1- SLOVENSKA ORGANIZACIA PRE VYSKUMNE A VYVOJOVE AKTIVITY (SOVVA)- COORDINATOR Slovak participant 2- SLOVENSKA AKADEMIA VIED (SLOVAK ACADEMY OF SCIENCES - SAS)

Slovak participant 3- I-EUROPA SRO

Slovak participant 4 (2010)- SLOVENSKÉ NARODNE MUZEUM (SNM)

SK Participant 1 Project Cost: EUR 25 100

SK Participant 1 EC Financial Contribution: EUR 20 366.5

SK Participant 2 Project Cost: EUR 21 960

SK Participant 2 EC Financial Contribution: EUR 20 003.5

SK Participant 3 Project Cost: EUR 4 800

SK Participant 3 EC Financial Contribution: EUR 4 280

SK Participant 4 (2010) Project Cost: EUR 6 000

SK Participant 4 (2010) EC Financial Contribution: EUR 5 350

Project Description: The main result of the project should demonstrate a positive evolution in the way public at large perceives the researchers and their work. Such evolution was going to be measured and assessed in the frame of the impact assessment exercise described below.

The year 2010 was declared by UNESCO to be the International Year of Biodiversity. Therefore the project as such had one common theme – **Biodiversity** – while not excluding other themes. UNESCO encouraged UN member states to take the opportunity and increase awareness of the importance of biodiversity by promoting events at the local, regional and international levels.

Apart from the official main target of the project – recognition of researchers – the following target on the national level had been defined as follows: *“Researchers’ Night should become a cornerstone of the science and scientists recognition activities in the Slovak Republic with ensured continuity and increasing public consideration”.*

Following the above-mentioned main targets, the design and overall strategy of the project were based on the well-received previous Researchers’ Night 2007, 2008 and 2009 events and the experience gained. Each year, this European initiative gains popularity among a variety of stakeholders in Slovakia, ranging from policymakers, top-level academia to individual researchers and general public. There still is some room for improvement and therefore project RN2010SVK differs from the previous years in the following aspects, which at the same time represent also specific targets of the project:

even more focus on “researchers as ordinary people” rather than on general promotion of science, as was the case in previous events; the Researchers’ night is now sufficiently known and familiar to the population for such re-orientation to be undertaken;

regionalization of the events in 2010 project – having two strong central events in Bratislava (capital of Slovakia representing 50 % of science potential in Slovakia) and in Kosice (largest city in Eastern part of the country and second-largest science base in Slovakia) for the first time, including other smaller events throughout the country;

diversification of the awareness campaign in 2010 including use of innovative channels such as Facebook and other instruments;

in spite of no specific target group, **strong orientation on the young generation** and attracting pupils and students to attend the events;

stronger than ever EU dimension of the project, as 3 EU Corners are planned – 2 in Bratislava and 1 in Kosice.

Project Objectives: The main project objectives consist of:

Bringing the public at large and researchers closer to one another so as to increase their mutual understanding and convince “ordinary people” that researchers are like them, sharing problems, hopes, passions, hobbies, dreams, and disappointments, as well as fun during the Researchers’ Night;

Disseminate this idea and tackle the old stereotypes related to researchers all over the country, not only in the capital city, as had been the case previously;

As a side-effect, more young people might become interested in the job of the researcher and decide to embark on scientific careers.

Project Outcomes planned/real:

Estimated number of participants: 30 845

Number of participants – actual events held : 74 033

RN2011SVK

Project ID: 287503

Project Title: Researchers’ Night in Slovakia 2011 – NATIONAL SCIENCE FESTIVAL FOR ALL

Project website: <http://www.sovva.sk/noc-vyskumnika-2011/>

Project Start Date: 2011-06-01

Project End Date: 2011-12-31

Project Total Cost: EUR 64 927

Project EC Financial Contribution: EUR 60 000

Partners of the Consortium:

Slovak participant 1- SLOVENSKA ORGANIZACIA PRE VYSKUMNE A VYVOJOVE AKTIVITY (SOVVA)- COORDINATOR

Slovak participant 2- SLOVENSKA AKADEMIA VIED (SLOVAK ACADEMY OF SCIENCES - SAS)

Slovak participant 3- I-EUROPA SRO

SK Participant 1 Project Cost: EUR 37 382.4

SK Participant 1 EC Financial Contribution: EUR 34 983

SK Participant 2 Project Cost: EUR 21 520.6

SK Participant 2 EC Financial Contribution: EUR 19 647

SK Participant 3 Project Cost: EUR 6 024

SK Participant 3 EC Financial Contribution: EUR 5 370

Project Description: The concept of the project was based on the very positive experience with the events of 2007, 2008, 2009 and 2010 and on the fact, that year 2010 became a real breakthrough in the RN activities in Slovakia in terms of public perception and participation of the researchers. The 2011 project proposal was based on further increase of the importance of covering the whole territory of the Slovak Republic. The project consisted of the right mix of main venues in large shopping centres and places like the Slovak National Museum as well as observatories, which continue to attract a lot of visitors. Thanks to our concept of bringing researchers to the place, where they meet large number of people we were able to plan the very ambitious but realistic quantitative targets for the 2011 event (99 000 participants, 700 participating researchers, 600 000 people reached via awareness campaign).

As to the programme of activities, it was built along the following axes: Science shows and interactive experiments and demos of science cafes and interactive workshops/discussions, Interactive exhibition about famous Slovak scientists, Masters of the Mind in the area of Chemistry (because of 2010 - International Year of Chemistry), three nation-wide competitions serving as strong awareness campaign instruments, smaller quizzes within the scope of the events motivating people to attend all of the prepared stands, events, lectures, discussions and win nice prizes for collecting proof of their participation in the individual parts of the “Science Party” event held on Friday night.

Project Objectives: However, room for improvement remains, and project RN2011SVK differs from the previous years in the following aspects, which at the same time represent also specific targets of the project:

even more focus on “researchers as ordinary people”;

regionalization of the events in 2011 – extending the number of science shows to three local events;

further diversification of the awareness campaign; stronger than ever EU dimension of the project.

Project Outcomes planned/real:

Estimated number of participants: 110 300

Number of participants – actual events held: 127 763

RN2012SVK

Project ID: 316614

Project Title: SCIENCE FESTIVAL Researchers' Night in Slovakia 2012

Project website: <http://www.sovva.sk/noc-vyskumnikov/2012.html>

Project Start Date: 2012-06-01

Project End Date: 2012-12-31

Project Total Cost: EUR 67 074.6

Project EC Financial Contribution: EUR 62 000

Partners of the Consortium:

Slovak participant 1- Slovenska organizacia pre vyskumne a vyvojeve aktivity (SOVVA) - coordinator

Slovak participant 2- SLOVENSKA AKADEMIA VIED (Slovak Academy of Sciences - SAS)

Slovak participant 3- I-EUROPA SRO

SK Participant 1 Project Cost: EUR 42 882.4

SK Participant 1 EC Financial Contribution: EUR 40 024.43

SK Participant 2 Project Cost: EUR 17 420.6

SK Participant 2 EC Financial Contribution: EUR 15 937.56

SK Participant 3 Project Cost: EUR 6 771.6

SK Participant 3 EC Financial Contribution: EUR 6 038.01

Project Description: Science Festival Researchers' Night in Slovakia took place in Slovakia for the 6th time in 2013. It was the biggest science popularization event in Slovakia. The motto of the project „Researchers are among us“ was fully demonstrated all over Slovakia – in all locations (Bratislava, Košice, Banská Bystrica, Žilina, Tatranská Lomnica). The concept of the project was based on the very positive experience from the previous 5 events in 2007, 2008, 2009, 2010 and 2011.

Each year, this European initiative gains popularity among a variety of stakeholders in Slovakia. The events bring about visible improvement of the relations between researchers and the general public. For these reasons we did not aim to change the basic concept of events, but we focused even more strongly on enhancing the quality of the events and also on their entertainment part in order to move further and achieve even more. The basic concept of the project can be summed up as follows: Being a researcher is fascinating and unconventional but researchers are still ordinary people living with us, and Europe as well as our country cares about them. Researchers Night should become a cornerstone of the science and scientist recognition activities in the Slovak Republic with ensured continuity and increasing public consideration. Researchers are people like the rest of us; they have families, hobbies, experience problems, hopes, passions, dreams, and disappointments and they can be fun, too.

Project Objectives:

Main objective

Enhancing researchers' public recognition chiefly through offering the public at large, whatever their age and scientific background, the opportunity to discover the "human face" of research via direct exchanges and discussions with the researchers, as well as to understand the impact of research on their daily lives.

Specific objectives

Bringing closer to the researchers and general public and as such contributing to an improved mutual understanding and exchange of knowledge;

Illustrating the ordinary character of researchers, who share with the audience hopes, dreams, concerns, problems, hobbies, passions etc.;

Tackling the persisting stereotypes about researchers and their job;

Showing the fun and fascinating aspects of research;

Developing the communication skills of researchers and pointing out the importance of science communication to the public at large;

Pointing out the societal importance of research, including in citizens' daily lives and well-being;

Pointing out European support in favour of researchers and research and stressing the importance of European and international cooperation in research.

Project Outcomes planned/real:

About 1000 researchers and scientists and 160 000 attendees from all over Slovakia participated in all project locations. The awareness campaign reached about 750 000 people, we communicated with more than 3 000 schools (primary and secondary), more than 100 of which brought their pupils and students to see our presentations. About 20 000 people took part in all contests during the Science Festival Researchers' Night in Slovakia.

Estimated number of participants: 134 000

Number of participants – actual events held: 160 000

RN2013SVK

Project ID: 609907

Project Title: Science festival Researchers' Night in Slovakia 2013

Project website: <http://2013.nocvyskumnikov.sk/>

Project Start Date: 2013-06-01

Project End Date: 2013-12-31

Project Total Cost: EUR 68 940

Project EC Financial Contribution: EUR 65 000

Partners of the Consortium:

Slovak participant 1- SLOVENSKA ORGANIZACIA PRE VYSKUMNE A VYVOJEVE AKTIVITY (SOVVA) - COORDINATOR

Slovak participant 2- SLOVENSKA AKADEMIA VIED (SLOVAK ACADEMY OF SCIENCES - SAS)

Slovak participant 3- I-EUROPA SRO

Slovak participant 4 (2013) - CENTRUM VEDECKO TECHNICKYCH INFORMACII SLOVENSKEJ REPUBLIKY (CVTISR)

SK Participant 1 Project Cost: EUR 45 580

SK Participant 1 EC Financial Contribution: EUR 43 513

SK Participant 2 Project Cost: EUR 16 040

SK Participant 2 EC Financial Contribution: EUR 14 974

SK Participant 3 Project Cost: EUR 3 360

SK Participant 3 EC Financial Contribution: EUR 2 996

SK Participant 4 (2013) Project Cost: EUR 3 960

SK Participant 4 (2013) EC Financial Contribution: EUR 3 517

Project Description: The concept of RN2013 aimed to expand the event throughout the Bratislava city centre and upgrade it into an all-day open-air festival of Science. The RN2013 in Slovakia was based on the idea **Science is a Life!** In cooperation with top Slovak researchers we sought to point out to the general public how science influences all aspects of our everyday lives, how the scientific innovations, social sciences and humanities help to solve emerging problems, define our future and understand our past.

The main programme of events was held in the Old Market Hall in Bratislava, and included various science installations and stands spread through the city centre. People had the opportunity to spend all day and night visiting different stands, testing scientific applications, experiencing the latest research outcomes and talking to researchers. By means of direct exchanges and discussions with the researchers, people can discover the "human face" of science. The main event, which was held in the Old Market Hall in Bratislava city centre, offered a longer show and more attractive programme on stage – including a presentation of the humanoid robot ASIMO.

During the event and awareness campaign we focused on examples of interesting and attractive scientist careers, which we hoped would help uproot the myth about scientists being weird creatures living in labs and having no social life.

Messages conveyed

Researchers are among us;

Researchers are ordinary people with an extraordinary job;

Science is a miracle;

Science is cool and fascinating;

Research has an impact on citizens' daily lives and well-being;

Europe cares about its researchers.

Project Objectives: The project has a seven-year-old tradition and it is the largest event that popularises science and research in Slovakia. The main objective is to inform the general public about the inconspicuous yet fundamental influence of scientists within the society and to present the findings of their research, which are crucial for the development of any society.

It also seeks to bring scientific professions closer to students and pupils. Finally, the project supports regional development and fosters interaction between hundreds of scientists from the best scientific institutions in Slovakia.

Main objective

Enhancing public recognition of researchers and their work, chiefly through offering the general public, regardless of age and scientific background, the opportunity of sharing talks, ideas, interests, concerns, passions and fun with them and, as such, discover the "human face" of research.

Specific objectives

Enhancing the researchers' role in the mainstream of society by bringing them closer to the general public;

Tackling the existing stereotypes about researchers and their work;

Stimulating the interest of young people in research careers through the presentation of young scientists as models for socially and economically disadvantaged students from lower-income regions and informing them about the available means of support;

Promoting science as a "dream job" for women;

Pointing out European support in favour of researchers and research;

Stressing the importance of European and international cooperation in research.

Project Outcomes planned/real:

In 2013 the number of visitors increased by 20 000 people compared to 2012. The project targeted 2 145 000 people and reached the entire country through its media campaign. More than 1 000 researchers from all scientific disciplines participated and the events were attended by nearly 177 000 visitors including 22 000 pupils and students. As expected, strongest interest was displayed by primary schools, therefore, next year the goal is to enhance the interest of students from secondary schools and motivate them to continue their studies and possibly choose a future career in science. The festival managed to organise over 250 activities in 5 cities.

Over 1.5 million people made aware of the Researchers' Night and its objectives;

Involvement of 1 000 scientists in the activities;

Over 177 000 event attendees.

SLOVAK PARTICIPANTS 2007 – 2013

SLOVAK PARTICIPANT 1

Slovak participant Name: Slovenska organizacia pre vyskumne a vyvojove aktivity (SOVVA) - coordinator

Slovak participant address: STEFANIKOVA 19, 81105, Bratislava

Contact person email/ phone: Miriam Šlosárová, project manager, slosarova@sovva.sk, tel.:+421 911 790 899, info@sovva.sk, +421 918 378 550, www.sovva.sk

Profile of Slovak Participant/ -s: Slovenska organizacia pre vyskumne a vyvojove aktivity (SOVVA) is a nation-wide NGO providing comprehensive solutions and know-how in the fields of R&D, consulting in public policy and science policy, and setting up communication strategy and specializing in technology commercialization. SOVVA coordinated Researchers' Night in Slovakia from 2007 to 2013. SOVVA works with hundreds of Slovak scientists and dozens of research institutions from academia, industry, innovative companies, government, local self-government and foreign institutions. In 2011, SOVVA was authorized by the Ministry of Education, Science, Research and Sport of the Slovak Republic as coordinator of the national network of NCPs and NDs of FP7 in the Slovak Republic. SOVVA is now an acclaimed nation-wide organization providing science and technology services – including communication of science to the society, which makes it unique within the whole of Slovakia. The organization of pan-European events "Researchers' Night" in Slovakia has been one of the flagship initiatives of SOVVA since 2007.

Slovak Participant's Role in Project: As the coordinator of the project, SOVVA was responsible for the overall management and coordination of the project and of all the activities linked to management issues, cooperating with other relevant stakeholders – public administration, representatives of the national Government and selected representatives from the private sector acting as sponsors of the project, integration of the universities and other research institutions into the planned activities within the project, implementation, management and production of all planned activities and registration of school trips to the event venues.

SLOVAK PARTICIPANT 2

Slovak participant Name: SLOVENSKA AKADEMIA VIED (Slovak Academy of Sciences - SAS)

Slovak participant address: Stefanikova 49, 81438, Bratislava

Contact person email/ phone: prof. RNDr. Pavol Sajgalik, DrSc., Vice president for Economy in the Office of SAV, sajgalik@up.upsav.sk, +421257510134, www.sav.sk

Profile of Slovak Participant/ -s: SLOVENSKA AKADEMIA VIED (Slovak Academy of Sciences - SAS) is the chief self-governing scientific institution in the Slovak Republic. Its activities focus on the development of science, education, culture, economy and are carried out by scientists, and specialized and service organizations. By means of its research, the SAS has developed efforts to advance knowledge in international context considering the social needs of Slovakia.

SAS represents more than 3 000 research staff in Slovakia and its membership in the consortium guarantees nationwide involvement of excellent researchers in the project – its preparation as well as its implementation.

Slovak Participant's Role in Project:

SAS has been a partner of the Researchers' Night project in Slovakia since 2007 and was in charge of coordination of several WPs. Besides its reputation as a leading R&D institution in Slovakia, SAS provided for:

R&D infrastructure – e.g. technical facilities, laboratories and incorporated research centres;

top scientists and researchers, who were present at all supporting activities within the project and at the event itself;

materials for usual photo exhibition "The world through view of researcher" collected among SAS scientists;

know-how and latest research outputs of interest to the general public;

relevance of the event impact assessment.

SLOVAK PARTICIPANT 3

Slovak participant Name: I-EUROPA SRO

Slovak participant address: STEFANIKOVA 19, 81105, Bratislava

Contact person email/ phone: Pavel Nikodem, Managing Director, nikodem@euractiv.sk, +421 910 929 575

Profile of Slovak Participant/ -s: I-Europa is progressive representative of mass media. By means of its web portal EurActiv.sk is at the same time part of the Europe-wide network EurActiv.com.

I-Europa has unique expertise in communication services tailored to the needs of different target groups. Euractiv.sk is the largest Slovak information portal about the situation and current development in the EU providing comprehensive summary of latest documents, articles and analyses from

different areas of European policy and relevant Slovak context. According to independent statistics (Google Analytics), EurActiv.sk has almost 51 500 unique visitors with more than 77 000 visits and 150 000 page views per month (October 2012).

Slovak Participant's Role in Project: I-Europa was responsible for:

policy coverage - publishing of key policy initiatives within FP7 and H2020 in terms of importance of science and its promotion;

promotion of the RN on the web portal EurActiv.sk;

media training / workshop for researchers;

supervision of the awareness campaign.

SLOVAK PARTICIPANT 4 (2010)

Slovak participant Name: Slovenske narodne muzeum (Slovak National Museum - SNM)

Slovak participant address: Vajanskeho nabrezie 2, 810 06, Bratislava

Contact person email/ phone: Dr. Zuzana Vasaryova, Marketing Manager, +421 915 032 062, zuzana.vasaryova@snm.sk, sekretariat@snm.sk

Profile of Slovak Participant/ -s: Slovenske narodne muzeum (Slovak National Museum - SNM) was a new valuable partner in the project in 2010. Its participation significantly increased the potential impact of the whole project. It is the top state collection, science, research, cultural and educational establishment in the field of museological activity in the Slovak Republic. The Museum, which has been situated in the capital city of Bratislava since 1961 achieves its tasks by means of the directory and network of 18 specialized museums situated in every region of Slovakia. SNM counts more than 3.5 million museum objects from all scientific disciplines in its depository and it also manages tens of national heritage sites. The mission of SNM is - on the basis of research and scientific analysis - to gather, preserve, scientifically evaluate, professionally process, make available and use in the public interest the collection objects as evidence of the development of the natural environment and society in Slovakia, of the Slovak nation and of ethnic societies.

As for SNM's cultural and educational function, it presents the collections by means of permanent exhibitions and also implements other forms of museological communication, e. g. temporary exhibitions and other events. The SNM organizes almost two hundred exhibitions and events each year both at home and abroad. The number of visitors of all age groups at exhibitions and presentations exceed one million annually. Special attention is paid to attracting the youngest visitors. As regards the staff involved in the RN project, the management of SNM as well as their professionals, advertising and PR managers are highly experienced in preparing, implementing and promoting exhibitions and public events including such considerable presentation projects as How Did We Live? Slovakia in 20th-Century; Thebes, the City of Gods and Pharaohs; or Shangri-la /India, Nepal, Tibet, Bhutan etc. in which the visitors' rate amounted to between 50 000 and 80 000 persons.

Slovak Participant's Role in Project: SNM has extensive experience with progressive and innovative forms of science popularization and scientist promotion. The main task of the new partner was organizing a large-scale interactive exhibition about famous Slovak scientists under the headline "Masters of the Mind". This activity started within the main event of the project and lasted beyond the RN events as such.

SLOVAK PARTICIPANT 4 (2013)

Slovak participant Name: CENTRUM VEDECKO TECHNICKYCH INFORMACII SLOVENSKEJ REPUBLIKY (CVTISR)

Slovak participant address: LAMACKA CESTA 8 A, 811 04, Bratislava

Contact person email/ phone: Ľubomír Bilský, Head of the Office of the Director, +421269253103, +421918976301, www.cvtisr.sk

Profile of Slovak Participant/ -s: CENTRUM VEDECKO TECHNICKYCH INFORMACII SLOVENSKEJ REPUBLIKY (CVTISR) is the national information centre and specialized scientific library of the SR focused on technical, natural, economic and social sciences. It is directly-managed organization of the Ministry of Education, Science, Research and Sport of the Slovak Republic and fulfils the following roles:

National Centre for Popularization of Science and Technology in Society;

Technology Transfer Centre with nation-wide operation;

PATLIB – Centre of Patent Information in Slovakia;

Support unit for the research and development organizations' evaluation;

Depository Library of the OECD, EBRD and WIPO;

European Documentation Centre.

Slovak Participant's Role in Project: CVTISR was responsible for:

promotion of the RN through specialized websites and regular organized events such as science cafes, debates and information seminars,

specification of interesting scientific outputs which could be presented at the event through the activities of Technology Transfer Centre.

4. Specific programme **CAPACITIES**

4.1 *Research infrastructures* - (INFRASTRUCTURES)



EAST-NMR

Project ID: 228461

Project Title: Enhancing Access and Services to East European users towards an efficient and coordinated pan European pool of NMR capacities to enable global collaborative research & boost technological advancements

Project website: <http://www.east-nmr.eu/>

Project Start Date: 2009-02-01

Project End Date: 2013-01-31

Project Total Cost: EUR 4 231 135.6

Project EC Financial Contribution: EUR 3 499 997.48

Slovak participant Name: CHEMICKY USTAV SLOVENSKEJ AKADEMIE VIED, Institute of Chemistry, Slovak Academy of Sciences

Slovak participant address: Dúbravská cesta 9, 845 38 Bratislava

Contact person email/ phone: Ing. Miloš Hricovíni, PhD., Milos.Hricovini@savba.sk / 02 59410323

Partners of the Consortium:

JOHANN WOLFGANG GOETHE UNIVERSITAET FRANKFURT AM MAIN - GERMANY
 CONSORZIO INTERUNIVERSITARIO RISONANZE MAGNETICHE DI METALLOPROTEINE
 PARAMAGNETICHE - ITALY
 DEBRECENI EGYETEM - HUNGARY
 WEIZMANN INSTITUTE OF SCIENCE - ISRAEL
 MASARYKOVA UNIVERZITA - CZECH REPUBLIC
 UNIwersytet warszawski - POLAND
 KEMIJSKI INSTITUT - SLOVENIA
 LATVIJAS ORGANISKAS SINTEZES INSTITUTS - LATVIA
 BRUKER BIOSPIN GMBH - GERMANY
 THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD -
 UNITED KINGDOM
 UNIVERSITY OF PATRAS - GREECE
 TALLINNA TEHNIKAKOOL - ESTONIA
 EÖTVÖS LORÁND TUDOMÁNYEGYETEM - HUNGARY
 INSTITUTE OF ORGANIC CHEMISTRY WITH CENTRE OF PHYTOCHEMISTRY -
 BULGARIAN ACADEMY OF SCIENCES - BULGARIA
 CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE
 TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY
 ASLA BIOTECH LTD - LATVIA
 EURELATIONS AG - SWITZERLAND
 INSTYTUT BIOCHEMII I BIOFIZYKI POLSKIEJ AKADEMII NAUK - POLAND
 UNIVERSITEIT UTRECHT - NETHERLANDS

CHEMICKY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF CHEMISTRY, SLOVAK
 ACADEMY OF SCIENCES- SLOVAKIA

Project Description: Project Objectives: The EAST-NMR project responds to the new challenges facing NMR and its RIs, based on the I3 model. The project will:
 - provide transnational access to NMR instrumentation based in Eastern Europe by taking advantage of the experiences

of another on-going European project (EU-NMR), and will provide access to solid-state NMR facilities, an emerging technology at the international level,
 - educate and train researchers in NMR's potential and use, with special care for Eastern Europeans,
 - advance in sample preparation technologies through joint research activities, especially of the difficult to tackle membrane proteins. The project will affect research in the field of Life Sciences and the pan-European potential for excellence in competitive sectors such as pharmaceuticals and biotechnology.

Profile of Slovak Participant/ -s: Slovak participants were represented by the NMR lab of the Institute of Chemistry, Slovak Academy of Sciences, Bratislava. Scientific activities at our Institute are focused on structure, chemistry and biochemistry of carbohydrates. Carbohydrate structure, dynamics and protein-carbohydrate interactions have been studied by various analytical methods, including multidimensional high-resolution NMR spectroscopy, combined with theoretical calculations (mainly quantum mechanical or QM/MM). Apart from this lab, other NMR labs, associated in the Slovak National NMR Centre, took part in the project, namely: NMR lab at the Slovak Technical University, Bratislava, NMR lab at the Faculty of Natural Sciences, Comenius University, Bratislava, NMR lab at the Technical University Kosice and the NMR lab at the P. J. Safarik University Kosice.

SK Participant Project Cost: EUR 96 800

SK Participant EC Financial Contribution: EUR 70 300

Project Outcomes planned/real: The aim of the project was the establishment of the network of NMR laboratories, which support science and training of young researchers in the field of biomolecular NMR. Apart from high-resolution NMR, solid-state NMR at high-magnetic fields was established as well. Networking activities were mainly focussed on twinning actions, and on the access to advanced NMR technologies in the labs participating in the project. Regular NMR meetings were also organized (most of the 21 institutions participating in the project organized meetings). The Institute of Chemistry, Slovak Academy of Sciences, organized three scientific meetings. The project aims have been achieved.

Slovak Participant's Role in Project: Slovak institutions took part in networking activities, mainly measurements and analysis of biomolecular structures in solution. Slovak researchers also organized two regional NMR meetings and the 2nd Young Investigators' meeting.

EGEE-III

Project ID: 222667

Project Title: Enabling Grids for E-science III

Project website: <http://home.web.cern.ch/>

Project Start Date: 2008-05-01

Project End Date: 2010-04-30

Project Total Cost: EUR 49 022 472

Project EC Financial Contribution: EUR 32 000 000

Slovak participant Name: USTAV INFORMATIKY SLOVENSKEJ AKADEMIE VIED, Institute of Informatics of the Slovak Academy of Sciences

Slovak participant address: Dúbravská cesta 9, 845 38 Bratislava

Contact person email/ phone: Mr. Ladislav Hluchy, ladislav.hluchy@savba.sk / +4212 54771004

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EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH - SWITZERLAND
 SCIENCE AND TECHNOLOGY FACILITIES COUNCIL - UNITED KINGDOM
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 - ROMANIA
 SWITCH -TELEINFORMATIKDIENSTE FUER LEHRE UND FORSCHUNG - SWITZERLAND
 DELIVERY OF ADVANCED NETWORK TECHNOLOGY TO EUROPE LIMITED - UNITED
 KINGDOM
 INSTITUTO DE FISICA DE ALTAS ENERGIAS - SPAIN
 LABORATORIO DE INSTRUMENTACAO E FISICA EXPERIMENTAL DE PARTICULAS -
 PORTUGAL
 ACADEMIA SINICA - TAIWAN
 SVEUCILISTE U ZAGREBU SVEUCILISNI RACUNSKI CENTAR - CROATIA
 TEL AVIV UNIVERSITY - ISRAEL
 UNIVERSITY OF WISCONSIN-MADISON - UNITED STATES
 TRUST-IT SERVICES LTD - UNITED KINGDOM
 CHONNAM NATIONAL UNIVERSITY - REPUBLIC OF KOREA
 VRIJE UNIVERSITEIT BRUSSEL - BELGIUM
 AKADEMIA GORNICZO-HUTNICZA IM. STANISLAWA STASZICA W KRAKOWIE - POLAND
 BT SERVICES SA - FRANCE
 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL - UNITED STATES
 ELSAG DATAMAT S.P.A. - ITALY
 UNIVERSITY OF CYPRUS - CYPRUS
 UNINETT SIGMA AS - NORWAY
 INTER-UNIVERSITY RESEARCH INSTITUTE CORPORATION, HIGH ENERGY ACCELERATOR
 RESEARCH ORGANISATION - JAPAN
 CSC-TIETEEN TIETOTEKNIKAN KESKUS OY - SUOMI/FINLAND
 KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY INFORMATION - REPUBLIC OF
 KOREA
 THE PROVOST FELLOWS & SCHOLARS OF THE COLLEGE OF THE HOLY AND UNDIVIDED
 TRINITY OF QUEEN ELIZABETH NEAR DUBLIN - ÉIRE/IRELAND
 INSTITUT ZA FIZIKU - SERBIA
 TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY
 STICHTING VOOR FUNDAMENTEEL ONDERZOEK DER MATERIE - FOM - NETHERLANDS
 UNIVERSITY OF MELBOURNE - AUSTRALIA
 ISTITUTO NAZIONALE DI FISICA NUCLEARE - ITALY
 MTA KFKI RESZECSEKES-MAGFIZIKAI KUTATOINTEZET - HUNGARY

KARLSRUHER INSTITUT FUER TECHNOLOGIE - GERMANY
 UNIVERSITAET LINZ - AUSTRIA
 INSTITUT JOZEF STEFAN - SLOVENIA
 VETENSKAPSRADET - SWEDISH RESEARCH COUNCIL - SWEDEN
 RUSSIAN RESEARCH CENTRE KURCHATOV INSTITUTE - RUSSIA
 GREEK RESEARCH AND TECHNOLOGY NETWORK S.A. - GREECE
 CESNET, ZAJMOVE SDRUZENI PRÁVNICKÝCH OSOB - CZECH REPUBLIC
 CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE
 CGGVERITAS SERVICES SA - FRANCE
 HELSINGIN YLIOPISTO - SUOMI/FINLAND

USTAV INFORMATIKY SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF INFORMATICS OF
 THE SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: In its third phase, the EGEE project will expand and optimise Europe's largest production Grid infrastructure, namely EGEE, by continuous operation of the infrastructure, support for more user communities, and by addition of further computational and data resources. The project will also prepare the migration of the existing production European Grid from a project-based model to a sustainable federated infrastructure, based on National Grid Initiatives for multi-disciplinary use.

Project Objectives: The proposed EGEE-III project has two clear objectives, that are essential for European research infrastructures: to expand, optimize and simplify the use of Europe's largest production Grid by continuous operation of the infrastructure, support for more user communities, and addition of further computational and data resources; to prepare the migration of the existing Grid from a project-based model to a sustainable federated infrastructure, based on National Grid Initiatives. By strengthening interoperable, open source middleware, EGEE-III will actively contribute to Grid standards, and work closely with businesses, to ensure commercial uptake of the Grid, which is a key to sustainability. Federating its partners on a national or regional basis, EGEE-III will have a structuring effect on the European Research Area. In particular, EGEE-III will ensure that the European Grid does not fragment into incompatible infrastructures of varying maturity. EGEE-III will provide a world class, coherent and reliable European Grid, ensuring Europe remains at the forefront of scientific excellence.



Profile of Slovak Participant/ -s: The Institute of Informatics of the Slovak Academy of Sciences (<http://www.ui.sav.sk/>) has a long and successful history of research in the area of high-performance computing, knowledge and data management and integration, Grid computing, science applications in environmental research and management. It was a partner in several previous IST research projects in relevant areas, namely: CROSSGRID (Development of Grid Environment for Interactive Applications), in which II SAS provided a key application (Flood); K-Wf Grid (Knowledge-based Workflow System for Grid Applications), which II SAS initiated and in which it developed an easy-to-use and customizable portal, knowledge management and integration tools, and improved version of the Flood application. II SAS is one of the infrastructure providers in EGEE and EGEE-II, and has extensive experience in deploying, managing, and supporting Grid-based systems, applications, and in user support. II SAS leads the EGEE-related project DEGREE (Dissemination and Exploitation of Grids in Earth science). Specific role in the project: NA2: Local EGEE web page, articles and interviews on accessibility and usage of EGEE infrastructure for local media, journals, conferences; organization of international workshop on Grid Computing for Complex Problems; SlovakGrid initiative. NA3: Organizing of training courses for site administrators and Grid application developers; arranging meetings for small groups of problem-domain applications experts. NA4: Development of workflow tools for automatic dynamic composition of the ES Grid/web services, based on the semantic descriptions. Development of task management service for astrophysics applications. SA1: Collaboration with NGI in Slovakia; 1st-line support and deployment support, hosting central services; user support.

SK Participant Project Cost: EUR 627 532

SK Participant EC Financial Contribution: EUR 257 000

Project Outcomes planned/real: In June 2010, the infrastructure EGEE had > 300 sites, 48 countries, ~ 200,000 CPU cores, >25 PetaBytes disk, >38PB tape, >13,000 users, >13 million jobs/month. EGEE had chaired the European E-infrastructure Forum (EGEE, EGI, DEISA, PRACE, TERENA, GEANT etc.) and supported ESFRI projects (total of 28 ESFRI + eNMR and NeuGrid projects). 2 major international events were organised each year with more than 500 participants. EGEE deployed interoperability of its own middleware gLite with other middleware stacks, notably ARC & UNICORE, and delivered 185 training events in 29 countries, with more than 2300 participants. The EGEE project encouraged the formation of NGIs in over 20 countries, thanks to the empowerment of JRUs. The Slovak partner delivered training courses with hands-on tutorials and live demo for users and application developers, aimed at the Grid computing technologies, and gridifying applications; organized the GCCP2008 (4th International Workshop on Grid Computing for Complex Problems) and GCCP2009 with guest lectures by researchers working on leading European HPC-projects (EGEE, EGI, DEISA, COMPHEM) and provided participants with e-learning material on CD. We ported Kwf-Grid workflow management system to EGEE by implementing adaptor for GWES workflow engine for gLite, extending graphical interface GWUI, and we supported Earth Sciences and Astronomy and Astrophysics applications (parallelization: MPI, OpenMP, parametric study). We took part in 1st line support and middleware deployment support for sites in Central Europe federation, with providing several central services for Virtual Organizations and Certification Authority services for users in Slovakia. We successfully left the CE federation and started national services for NGI_SK.

Slovak Participant's Role in Project: Given the success of the EGEE programme, it is now essential to build on its achievements and prepare the transition towards a sustainable infrastructure. This is proposed in the EGEE-III project, undertaken in close collaboration with the National Grid Infrastructures (NGIs) and the European Grid Initiative Design Study project FP7. Slovak partner involvement in tasks: SA1 Grid Operations: support teams for Grid infrastructure, users and virtual organizations, NA2 Dissemination, Communication and Outreach: expand to new user communities through outreach, NA3 User Training and Induction, NA4 User Community Support and Expansion: application support (astrophysics, Earth-sciences, etc.), dissemination activities, grid middleware transfer and testing.

EGI-INSPIRE

Project ID: 261323

Project Title: European Grid Initiative: Integrated Sustainable Pan-European Infrastructure for Researchers in Europe

Project website: <http://www.egi.eu/>

Project Start Date: 2010-05-01

Project End Date: 2014-04-30

Project Total Cost: EUR 70 136 749

Project EC Financial Contribution: EUR 25 000 000

Slovak participant Name: USTAV INFORMATIKY SLOVENSKEJ AKADEMIE VIED, Institute of Informatics, Slovak Academy of Sciences

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Participants: SWITCH-TELEINFORMATIKDIENSTE FUER LEHRE UND FORSCHUNG - SWITZERLAND

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ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE - PHILIPPINES

INSTITUTE FOR INFORMATICS AND AUTOMATION PROBLEMS OF THE NATIONAL ACADEMY OF SCIENCES OF THE REPUBLIC OF ARMENIA - ARMENIA

LABORATORIO DE INSTRUMENTACAO E FISICA EXPERIMENTAL DE PARTICULAS - PORTUGAL

SVEUCILISTE U ZAGREBU SVEUCILISNI RACUNSKI CENTAR - CROATIA

NATIONAL SCIENCE & TECHNOLOGY DEVELOPMENT AGENCY - THAILAND

NATIONAL ASSOCIATION OF RESEARCH AND EDUCATIONAL E-INFRASTRUCTURES

"E-ARENA" AUTONOMOUS NON-COMMERCIAL ORGANIZATION - RUSSIA

MTA KFKI RESZECSEKES MAGFIZIKAI KUTATOINTEZET - HUNGARY

VETENSKAPSRADDET - SWEDISH RESEARCH COUNCIL - SWEDEN

CESNET, ZAJMOVE SDRUZENI PRAVNICKYCH OSOB - CZECH REPUBLIC

EUROPEAN MOLECULAR BIOLOGY LABORATORY - GERMANY

ACADEMIA SINICA - TAIWAN

UNINETT SIGMA AS - NORWAY

KØBENHAVNS UNIVERSITET - DENMARK

CSC-TIETEEN TIETOTEKNIKAN KESKUS OY - SUOMI/FINLAND

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CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE

NATIONAL UNIVERSITY OF SINGAPORE - SINGAPORE

ARNES - SLOVENIA

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EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH - SWITZERLAND

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STICHTING NATIONALE COMPUTERFACILITEITEN - NETHERLANDS

NORDUNET A/S - DENMARK

RESEARCH AND EDUCATIONAL NETWORKING ASSOCIATION OF MOLDOVA - MOLDOVA

INSTITUT TEKNOLOGI BANDUNG BHMN - INDONESIA

GEORGIAN RESEARCH AND EDUCATIONAL NETWORKING ASSOCIATION - GEORGIA

UNIVERZITET U BANJOJ LUCI ELEKTROTEHNIKI FAKULTET - BOSNIA AND HERZEGOVINA

SS. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE - THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA

GREEK RESEARCH AND TECHNOLOGY NETWORK S.A. - GREECE

THE PROVOST FELLOWS & SCHOLARS OF THE COLLEGE OF THE HOLY AND UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN - ÉIRE/IRELAND

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL - UNITED KINGDOM

INSTITUT ZA FIZIKU - SERBIA

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USTAV INFORMATIKY SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF INFORMATICS OF THE SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: The four year project EGI-InSPIRE (Integrated Sustainable Pan-European Infrastructure for Researchers in Europe) started on 1 May 2010, and it was co-funded by the European Commission (contract number: RI-261323), as a collaborative effort involving more than 50 institutions in over 40 countries. Its mission was to establish a sustainable European Grid Infrastructure (EGI).

EGI-InSPIRE is ideally placed to join together the new Distributed Computing Infrastructures (DCIs) such as clouds, supercomputing networks and desktop grids, for the benefit of user communities within the European Research Area.

Project Objectives: The 48 month EGI-InSPIRE project will continue the transition to a sustainable pan-European e-Infrastructure started in EGEE-III. It will sustain support for Grids of high-performance and high-throughput computing resources, while seeking to integrate new Distributed Computing Infrastructures (DCIs), i.e. Clouds, SuperComputing, Desktop Grids, etc., as they are required by the European user community. It will establish a central coordinating organisation, EGI.eu, and support the staff throughout Europe necessary to integrate and interoperate individual national grid infrastructures. EGI.eu will provide a coordinating hub for European DCIs, working to bring the existing technologies into a single integrated persistent production infrastructure for researchers within the European Research Area. EGI-InSPIRE will collect requirements and provide user-support for the current and new (e.g. ESFRI) users. Support will also be given for the current heavy users, as they move their critical services and tools from a central support model to ones driven by their own individual communities. The project will define, verify and integrate within the Unified Middleware Distribution, the middleware from external providers needed to access the e-Infrastructure. The operational tools will be extended by the project, in order to support a national operational deployment model, include new DCI technologies in the production infrastructure and the associated accounting information, and to help define EGI's future revenue model.

Profile of Slovak Participant/ -s: The Institute of Informatics, Slovak Academy of Sciences (UI SAV) acts as the coordination body for Slovak NGI and is located in Bratislava, Slovakia. UI SAV is a non-profit public research organization. In SA1 (Operations) UI SAV will be involved in NGI International Tasks, relating to operations and user support. UI SAV has extensive experience in deploying, managing, and supporting Grid-based systems, applications and in user support through its experience in many EU grid projects, and participating in maintenance of multiple grid infrastructures. UI SAV will work also in SA3 (Services for Heavy User Communities), specifically TSA3.2 relating to Shared Services & Tools, as it has good experience with task & workflow managers (e.g. DIANE), visualization, data management and integration (e.g. OGSADAI), and MPI application support. UI SAV cooperates with A&A and ES communities, and therefore it will participate in tasks TSA3.5 and TSA3.6. UI SAV (<http://www.ui.sav.sk/>). It has a long and successful history of research in the area of high-performance computing, knowledge and data management and integration, Grid computing, science applications in environmental research and management. It has been a partner in several previous IST research projects in relevant areas, in which UI SAV has developed an easy-to-use and customizable portal, knowledge management and integration tools for HPC and Grid applications.



SK Participant Project Cost: EUR 1 167 892

SK Participant EC Financial Contribution: EUR 405 048

Project Outcomes planned/real: Project EGI-InSPIRE aims to create a sustainable e-infrastructure EGIs, with grand vision to establish by 2020 a distributed open compute and data infrastructure, comprising a 1M Core Federated Cloud, and 1 Exabyte of Federated Cloud Storage across Europe, that is able to support the data analysis activities of all researchers within the European Research Area. The project tries to outreach new user communities, and develop the EGI Solutions Portfolio (Federated Infrastructure Operations, Federated High-Throughput Data Analysis, Federated IaaS Cloud, Community Networks and Support, Community-driven Innovation). In June 2013, the infrastructure EGI had 22,197 registered users, 361,300 logical CPUs, 235PB disk 176PB tape and 1.44 million of jobs/day. The project created Virtual Teams, funded Mini-projects (Virtual Research Environments, Building and Using Operational Cloud Infrastructure, Operational Tools), Technical and Community Forums, Evolving EGI Workshop demonstrating Excellent European Science, EGI/EUDAT/PRACE Use Cases and also work with HelixNebula & XSEDE. The project assesses pay-per-use issues and GPGPU requirements within EGI. The Slovak partner developed an original method for distributed architecture for federated cloud, which allows the construction of new cloud applications, based on application modules and objects. We took part in 1st-line support and middleware deployment support, with providing several central services for Virtual Organizations and Certification Authority services for users in Slovakia. We have supported Earth Sciences, Molecular Biology, Astronomy and Astrophysics and Speech Recognition applications (parallelization: MPI, OpenMP, multicore) and we have also started to support nanotechnologies. We have delivered training courses (grid and cloud, GCCP2010, GCCP2011 with lectures given by top grid centre managers from Finland, Italy and the Czech Republic).

Slovak Participant's Role in Project: The Project is aimed at the creation of a sustainable pan-European e-Infrastructure started in EGEE-III. It will sustain support for Grids of high-performance and high-throughput computing resources, while seeking to integrate new Distributed Computing Infrastructures, i.e. Clouds, SuperComputing, Desktop Grids, etc. The Slovak partner involvement in tasks: SA1 Grid Operations: a Secure Infrastructure, Service Deployment, Infrastructure for Grid Management, Accounting, Helpdesk Teams, Support Teams, Providing a Reliable Grid Infrastructure, SA2 Provisioning the Software Infrastructure: Federated Private Clouds, SA3 Services for the Heavy User Communities: Applications (DIANE support and development), SA5 Federated Cloud: Operating a reliable federated institutional IaaS Cloud service, Participation in Proofs of Concept elicited by EGI, NA2 Community Engagement: Policy Development, Dissemination, NGI International Liaison, Distributed Competency Centre, NA3 User Community Coordination: NGI User Support Teams, Technical Services, NA4 Community Engagement: Human Networks, Distributed Competence Centre, NA5 Strategy, Policy and Business Development: Business model and proof of concepts.

EMI

Project ID: 261611

Project Title: European Middleware Initiative

Project website: <http://www.eu-emi.eu/>

Project Start Date: 2010-05-01

Project End Date: 2013-04-30

Project Total Cost: EUR 24 952 658

Project EC Financial Contribution: EUR 12 000 000

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FUNDACION CENTRO TECNOLOGICO DE SUPERCOMPUTACION DE GALICIA - SPAIN

AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS - SPAIN

CESNET, ZAJMOVE SDRUZENI PRAVNICKYCH OSOB - CZECH REPUBLIC

UNIwersytet Warszawski - POLAND

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL - UNITED KINGDOM

ACADEMIA SINICA - TAIWAN

TECHNISCHE UNIVERSITAET DRESDEN - GERMANY

FORSCHUNGSZENTRUM JUELICH GMBH - GERMANY

NEMZETI INFORMACIOS INFRASTRUKTURA FEJLESZTESI IRODA - HUNGARY

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KØBENHAVNS UNIVERSITET - DENMARK

CONSORZIO INTERUNIVERSITARIO CINECA - ITALY

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STICHTING VOOR FUNDAMENTEEL ONDERZOEK DER MATERIE - FOM - NETHERLANDS

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TRINITY OF QUEEN ELIZABETH NEAR DUBLIN - ÉIRE/IRELAND

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UNIVERZITA PAVLA JOZEFA SAFARIKA V KOSICIACH, PAVOL JOZEF ŠAFÁRIK

UNIVERSITY IN KOŠICE- SLOVAKIA

Project Description: The European Middleware Initiative is a collaboration of the three major middleware providers in Europe, ARC, gLite and UNICORE, and other consortia. EMI aims to deliver a consolidated set of middleware components for deployment in EGI, PRACE and other DCIs; extend the interoperability between grids and other computing infrastructures; strengthen the reliability of the services; and establish a sustainable model to maintain and evolve the middleware, fulfilling the requirements of the user communities.

Project Objectives: European scientific research has benefited recently from the increasing availability of computing and data infrastructures with unprecedented capabilities for large scale distributed initiatives. These infrastructures are largely defined by enabling middleware. After the necessary initial period of research and consolidation that has taken place in the past several years, the growing usage of these resources now requires the transformation of the computing infrastructures into a professionally managed and standardized service. It is of strategic importance for the establishment of permanent, sustainable research infrastructures to lower the technological barriers still preventing resource owners from federating the resources, and potential communities of tens of thousands of researchers from using grids as a commodity tool in their daily activities. The EMI project will make the realization of this vision possible by addressing a number of problems that still prevent users from easily accessing and using the whole capacity of the existing computing infrastructures. It will focus on improving the usability and accessibility for scientific users and the interoperability and manageability for service providers. The sustainability of the grid services will be directly addressed by replacing wherever possible proprietary technology with off-the-shelf components, improving their standardization and implementing industry standard quality assurance methodologies.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 336 099

SK Participant EC Financial Contribution: EUR 168 051

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ERINHA

Project ID: 262042

Project Title: European Research Infrastructure on Highly Pathogenic Agents

Project website: <http://www.erinha.eu/>

Project Start Date: 2010-11-01

Project End Date: 2013-10-31

Project Total Cost: EUR 4 793 026.26

Project EC Financial Contribution: EUR 3 600 000

Slovak participant Name: SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, Slovak Medical University

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 SMITTSKYDDSIINSTITUTET - SWEDEN
 HEALTH PROTECTION AGENCY HPA - UNITED KINGDOM
 INSERM - TRANSFERT SA - FRANCE
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 PRINS LEOPOLD INSTITUUT VOOR TROPISCHE GENEESKUNDE - BELGIUM
 STATENS SERUM INSTITUT - DENMARK
 PHILIPPS UNIVERSITAET MARBURG – GERMANY

SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, SLOVAK MEDICAL UNIVERSITY- SLOVAKIA

Project Description: ERINHA is a project of building a pan-European research infrastructure aiming to reinforce the European coordination and capacities for the study and the surveillance of highly pathogenic micro-organisms. The ERINHA infrastructure will provide open access to state-of-the-art BSL-4 facilities for the European scientific community to enhance basic and finalised research activities. The infrastructure will promote the harmonization of biosafety and biosecurity procedures, will develop standards for the management of biological resources, diagnosis of group 4 pathogens, and training of BSL4 labs users.

Project Objectives: The project plans to conduct five main actions which are:

- (i) Building additional BSL4 areas in several existing BSL4 laboratories,
 - (ii) Building BSL4 laboratories in strategically selected EU countries that are lacking one,
 - (iii) Building a support infrastructure around BSL4 laboratories mainly dedicated to host scientific visitors and staff,
 - (iv) Setting-up the user access to the ERINHA infrastructure,
 - (v) Establishing coordination capacities for efficient dispatching and control of all activities.
- For 36 months, the ERINHA Preparatory Phase will focus on:
- (i) Identifying relevant sites in Europe for new BSL4 constructions or major upgrades,
 - (ii) Getting political and financial commitments from National, European or International concerned entities to support construction,
 - (iii) Establishing a secured and validated financial plan for construction, (iv) Defining and implementing an appropriate governance and legal framework,
 - (v) Harmonising and disseminating common procedures related to L4 biological resources, bio-safety and bio-security management,
 - (iv) Defining and implementing joint training programs to operate in BSL4 facilities,
 - (vii) Identifying the ERINHA's users and establishing rules for access.

These achievements will allow the ERINHA project to reach the legal, financial and technical maturity to proceed to the construction phase.

Profile of Slovak Participant/ -s: The Slovak Medical University has become a unique higher education institution within the framework of Slovak Universities by adopting the requirements of the European Union for university level education in regulated professions, including general medicine, nursing, public health, health care management, rehabilitation and related health care subjects, and by providing post-secondary professional education in a whole variety of medical specializations.

in the following areas of science and research:

a) Environmental health, which includes the research of the impacts of chemical, physical, biological and social factors on individual health and population health. Several departments with many years of experience are focused on these issues, also included in several international projects. Nowadays, the Environmental Health Center of Excellence (an ASFEU project) is built at the SZU, this covers several departments of the University faculties. This Center of Excellence provides, apart from personnel conditions, an excellent infrastructure. Moreover, other excellent departments were completed within the Norwegian Financial Mechanism (such as the Experimental menagerie or the Center of Medic. Metallomics) and these considerably increase the attractiveness and the possibilities of involvement in top international (7 RPEU), basic as well as applied, research.

The most important issues in these areas are:

- Microbiology, mycology, virology – especially enteric viruses and viral hepatitis, AIDS, slow virus infections, resp. prion diseases, fungi.
 - Radiation burden
 - Chemical pollution (metals, PCBs, dioxins)
 - Nutrition, focused on positive and negative impacts of selected foods, dietary supplements and different types of nutrition of different subgroups of the population (patients, vegetarians, athletes and others).
- b) Clinical research focused on:
- degenerative diseases and aging – associated diseases such as atherosclerosis, osteoporosis and others, centered on genetic and environmental factors of the establishment and development of these (diabetes, hypertension, obesity, smoking, physical inactivity, etc.) and the possibilities how to influence them (non-pharmacological methods, new drug therapy, stem cell treatments, alternative therapeutic approaches),
 - transplantation of tissue, organs, cells, focusing on:
 - research of the causes of their rejection,
 - new therapeutic approaches in the stem cell treatments (especially the treatment of diseases of the vascular system) transmissible diseases, centered on the research of the pathogenesis and the possibilities of prevention and cure (AIDS, prion diseases, enteroviral infections, hepatitis, Chlamydia infection and others).
 - diseases associated with reproduction, motherhood and childhood use of information technologies in the simulation/ modeling of major diseases in various fields of medicine, especially internal medicine, cardiology, neurology and surgery.

- c) Health and medical aspects of research and development of nano – particles, particularly in terms of toxicity and safety.
- d) Development of prognostic models suitable for assessing population health impacts of planned political, economic, social and other interventions – prognostication.
- e) Research related to the use of a linear accelerator, especially in the application of scientific results into practice (applied research).
- f) Others, according to the current demands of the society, the possibilities and capacities available at SZU in Bratislava. The evidence of a successful international cooperation in scientific research is the involvement of several departments of SZU in current projects (7thRPEU, ERINHA, SYSTEQ, OBELIX, DENAMIC, NANOTEST, NANOIMPACT, Q-NANO, PRIORITY) as well as the activities of SZU in Bratislava as a founding member of the international scientific consortium 'Regional Cooperation for Health, Science and Technology Association'.

SK Participant Project Cost: EUR 50 881.6

SK Participant EC Financial Contribution: EUR 34 026

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EST

Project ID: 212482

Project Title: EST: The large aperture European Solar Telescope

Project website: <http://www.iac.es/index.php?lang=en>

Project Start Date: 2008-02-01

Project End Date: 2011-07-31

Project Total Cost: EUR 6 782 318

Project EC Financial Contribution: EUR 3 200 000

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ROYAL DUYVIS WIENER BV - NETHERLANDS
BOUWSTUDIO PELSHERHARTMAN BV - NETHERLANDS
THEMIS S.L. - SPAIN
RÖTHE ERDE GMBH - GERMANY
S.R.S. ENGINEERING DESIGN S.R.L. - ITALY
HALFMANN TELESKOPECHNIK GMBH & CO KG - GERMANY
KUNGLIGA VETENSKAPSAKADEMIEN - SWEDEN
SYSTELAB TECHNOLOGIES S.A. - SPAIN
UNIVERSITY COLLEGE LONDON - UNITED KINGDOM
KIEPENHEUER-INSTITUT FUER SONNENPHYSIK - GERMANY
ANDOR TECHNOLOGY PLC - UNITED KINGDOM
ASTRONOMICKÝ USTAV AVCR VVI - CZECH REPUBLIC
SIEMENS AG - GERMANY
HANKOM ENGINEERING - NETHERLANDS
UNIVERSITA DEGLI STUDI DI ROMA TOR VERGATA - ITALY
NTE-SENER, S.A. - SPAIN
GRAN TELESCOPIO DE CANARIAS SA - SPAIN
POLY-NEDERLAND HANDELSMAATSCHAPPIJ B.V. - NETHERLANDS

ASTRONOMICKÝ USTAV SLOVENSKEJ AKADEMIE VIED, ASTRONOMICAL INSTITUTE OF THE SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: EST is a pan-European project involving 29 partners from 14 different countries. A consortium EAST (European Association for Solar Telescopes) exists with the aim, among others, of undertaking the development of EST, to keep Europe in the frontier of Solar Physics in the world. EST will be optimised for studies of magnetic coupling between the deep photosphere and upper chromosphere. This will require diagnostics of the thermal, dynamic and magnetic properties of the plasma over many scale heights, by using multiple wavelength imaging, spectroscopy and spectropolarimetry. The EST design will strongly emphasise the use of a large number of visible and near-infrared instruments simultaneously, thereby improving photon efficiency and diagnostic capabilities relative to other existing or proposed ground-based or space-borne solar telescopes. To achieve these goals, EST must specialise in high spatial and temporal resolution using instruments that can efficiently produce two-dimensional spectral information.

Project Objectives: The study aims at demonstrating the scientific, technical and financial feasibility of EST. It includes key aspects needed for a conceptual design of the whole telescope, such as optomechanical design, cooling mechanisms, adaptive optics, instrumentation and control. Different existing alternatives will be analysed for all systems and subsystems, with decisions taken on the most adequate ones that are compatible with the scientific goals and the technical strategies. Technical specifications will be given at the end of the Design Study for all systems and subsystems.

Profile of Slovak Participant/ -s: Astronomical Institute is one of the top research institutions in Slovakia. It belongs to the Slovak Academy of Sciences. The headquarters is situated in Tatranska Lomnica in the High Tatra Mountains on the north of Slovakia. Several observatories are harboured by the institute: Skalnaté Pleso Observatory, Lomnický štít Observatory, and Stara Lesna Observatory as well as a small group of researchers in Bratislava.

SK Participant Project Cost: EUR 31 840

SK Participant EC Financial Contribution: EUR 19 540

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EURORIS-NET

Project ID: 212879

Project Title: European Research Infrastructures Network of National Contact Points

Project website: <http://www.eie.gr/>

Project Start Date: 2007-11-01

Project End Date: 2011-10-31

Project Total Cost: EUR 2 118 671

Project EC Financial Contribution: EUR 1 799 972

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

Slovak participant address: Vazovova 5, 812 43 Bratislava

Contact person email/ phone: Mrs. Maria Buciova, +421 905 666 688, maria_buciova@stuba.sk

Partners of the Consortium:

ETHNIKO IDRYMA EREVNON - HELLAS
Participants: TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY
DEPARTMENT OF SCIENCE AND TECHNOLOGY - SOUTH AFRICA
THE ICELANDIC CENTRE FOR RESEARCH - ICELAND
VEREIN EURESEARCH - SWITZERLAND
SIHTASUTUS ARCHIMEDES - ESTONIA
NATIONAL RESEARCH AND DEVELOPMENT INSTITUTE FOR CRYOGENICS AND ISOTOPIC TECHNOLOGIES ICSI RM VALCEA - ROMANIA
RESEARCH PROMOTION FOUNDATION - CYPRUS
DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV - GERMANY
MINISTARSTVO PROSVETE, NAUKE I TEHNOLOGSKOG RAZVOJA - SERBIA
FUNDAÇÃO PARA A CIÊNCIA E A TECNOLOGIA - PORTUGAL
MINISTARSTVO ZNANOSTI, OBRAZOVANJA I SPORTA - CROATIA
STARPTAUTISKA LIETISKAS OPTIKAS BIEDRIBA - LATVIA
MINISTERIO DE ECONOMIA Y COMPETITIVIDAD - SPAIN
STYRELSEN FOR FORSKNING OG INNOVATION - DENMARK
MINISTARSTVO NAUKE - MONTENEGRO
MINISTERIE VAN ECONOMISCHE ZAKEN, LANDBOUW EN INNOVATIE - NETHERLANDS
COMMUNICATIONS RESEARCH CENTRE - CANADA
AGENCIA DE INOVACAO - INOVACAO EMPRESARIAL E TRANSFERENCIA DE TECNOLOGIA - PORTUGAL
DIENST VOOR WETENSCHAPPELIJKE EN TECHNISCHE INFORMATIE- SERVICE D'INFORMATION SCIENTIFIQUE ET TECHNIQUE - BELGIUM
INSTYTUT PODSTAWOWYCH PROBLEMOW TECHNIKI POLSKIEJ AKADEMII NAUK - POLAND
TECHNOLOGICKE CENTRUM AKADEMIE VED CESKE REPUBLIKY - CZECH REPUBLIC
SOFIISKI UNIVERSITET SVETI KLIMENT OHRIDSKI - BULGARIA
MATIMOP, ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT - ISRAEL
AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA - ITALY
AN TUDARAS UM ARD-OIDEACHAS HIGHER EDUCATION AUTHORITY - ÉIRE/IRELAND
MINISTARSTVO PROSVJETE I NAUKE - MONTENEGRO
NEMZETI INNOVACIOS HIVATAL - HUNGARY
NORGES FORSKNINGSRAD - NORWAY
MOKSLO INOVACIJU IR TECHNOLOGIJU AGENTURA - LITHUANIA
LUXINNOVATION GIE - LUXEMBOURG (GRAND-DUCHÉ)
NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY „MISIS“ - RUSSIA
OESTERREICHISCHE FORSCHUNGSFOERDERUNGSGESELLSCHAFT MBH - AUSTRIA
VERKET FÖR INNOVATIONSSYSTEM - SWEDEN
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE
OFFICE OF THE PRIME MINISTER – MALTA
SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

Project Description and Objectives: The overall objective of the proposed project is: To support the efficient implementation of the Research Infrastructures Programme and to promote the benefits offered by the RIs in order to enhance the Research Excellence, the competitiveness and the growth of Europe. Within this framework the project aims to improve the effectiveness of the Research Infrastructures (RIs) NCPs network through the upgrade of the level of the transnational cooperation which will result in more consistent services provided to the customers/clients across Europe. Coordination activities and synergies with other EU Networks will promote a coherent approach towards the Research Infrastructures and their utilization for the benefits of the European Scientific Community and Industry.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 5 332.91

SK Participant EC Financial Contribution: EUR 4 755.18

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EVA

Project ID: 228292

Project Title: European Virus Archive

Project website: <http://www.european-virus-archive.com/>

Project Start Date: 2009-01-01

Project End Date: 2013-12-31

Project Total Cost: EUR 8 381 098.14

Project EC Financial Contribution: EUR 6 300 000

Slovak participant Name: VIROLOGICKY USTAV SLOVENSKEJ AKADEMIE VIED,
Institute of Virology, Slovak Academy of Sciences

Slovak participant address: Dúbravská cesta 9, 845 38 Bratislava

Contact person email/ phone: Mrs. Marcela Krasulova, viruviki@savba.sk,
+421 2 59 302 420

Partners of the Consortium:

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Participants: UNIVERZA V LJUBLJANI - SLOVENIA
BERNHARD-NOCHT-INSTITUT FUER TROPENMEDIZIN - GERMANY
HEALTH PROTECTION AGENCY HPA - UNITED KINGDOM
UNIVERSITE D'AIX MARSEILLE - FRANCE
UNIVERSITAETSKLINIKUM BONN - GERMANY
THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS - UNITED KINGDOM
UNIVERSITE DE GENEVE - SWITZERLAND

VIROLOGICKY USTAV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF VIROLOGY, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description: The EVA project is establishing a web-based catalogue to advertise and distribute viruses in the collection as well as associated products. In addition the EVA network will also produce associated reagents on demand, to laboratories throughout Europe and also worldwide.

Project Objectives: The objective of this project is to develop a readily accessible virus reference library at the European level through the creation of the European Virus Archive (EVA). Since it would create insurmountable problems to develop such a collection in a single laboratory, EVA will utilise the expertise and facilities of recognised centres of excellence in virology within Europe. EVA will also exploit the high international reputations of these centres to obtain viruses currently held outside Europe. The management structure of EVA will ensure the highest standards of quality assurance, security, traceability and dissemination for the benefit of science, medicine, education and global information. The EVA network will develop appropriate protocols for virus amplification, supported by sustainable long-term storage facilities. The resource will be available to all users who can demonstrate the appropriate biosecurity credentials. An associated technology transfer centre will develop products for diagnosis, research, therapeutic application, education, and training. The EVA consortium contains internationally recognised experts in all aspects of the proposal. EVA is therefore an exciting, ambitious and realisable concept that can work for the benefit of mankind.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 740 517.8

SK Participant EC Financial Contribution: EUR 467 546.8

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EXPEER

Project ID: 262060

Project Title: Distributed Infrastructure for EXPErimentation in Ecosystem Research

Project website:

Project Start Date: 2010-12-01

Project End Date: 2014-11-30

Project Total Cost: EUR 9 414 736.19

Project EC Financial Contribution: EUR 7 400 000

Slovak participant Name: STATNE LESY TATRANSKEHO NARODNEHO PARKU, **State Forests of TANAP**

Slovak participant address: 059 60 Tatranská Lomnica

Contact person email/ phone: Mr. Peter Gazi, pgazi@lesytanap.sk, +421 5 24 780 357

Partners of the Consortium:

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Participants: AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS - SPAIN
CONSIGLIO NAZIONALE DELLE RICERCHE - ITALY
NATURAL ENVIRONMENT RESEARCH COUNCIL - UNITED KINGDOM
UNIVERSITA DEGLI STUDI DI UDINE - ITALY
DANMARKS TEKNISKE UNIVERSITET - DENMARK
IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE - UNITED KINGDOM
UNIVERSITY OF LEEDS - UNITED KINGDOM
KUNGLIGA TEKNISKA HOEGSKOLAN - SWEDEN
UNIVERSITEIT ANTWERPEN - BELGIUM
UNIVERSITAET POTSDAM - GERMANY
LUNDS UNIVERSITET - SWEDEN
UNIVERSITY OF SOUTHAMPTON - UNITED KINGDOM
TECHNISCHE UNIVERSITAET MUENCHEN - GERMANY
UNIVERSITA DEGLI STUDI DI TORINO - ITALY
KARLSRUHER INSTITUT FUER TECHNOLOGIE - GERMANY
HELMHOLTZ-ZENTRUM FUER UMWELTFORSCHUNG GMBH - UFZ - GERMANY
BEN-GURION UNIVERSITY OF THE NEGEV - ISRAEL
EIDGENOESSISCHE FORSCHUNGSANSTALT WSL - SWITZERLAND
VERENIGING VOOR CHRISTELIJK HOGER ONDERWIJS WETENSCHAPPELIJK ONDERZOEK EN PATIENTENZORG - NETHERLANDS
ROTHAMSTED RESEARCH LIMITED - UNITED KINGDOM
HELSINGIN YLIOPISTO - SUOMI/FINLAND
UMWELTBUNDESAMT GMBH - AUSTRIA
INRA TRANSFERT S.A. - FRANCE
UNIVERZITET U NOVOM SADU - SERBIA
MAGYAR TUDOMANYS AKADEMIA OKOLOGIAI KUTATOKOZPONT - HUNGARY
EIDGENOESSISCHES DEPARTEMENT FUER WIRTSCHAFT, BILDUNG UND FORSCHUNG - SWITZERLAND
SUOMEN YMPARISTOKESKUS - SUOMI/FINLAND
FRIEDRICH-SCHILLER-UNIVERSITAET JENA - GERMANY
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE
FORSCHUNGSINSTITUT FUR BIOLOGISCHENLANDBAU STIFTUNG - SWITZERLAND
FORSCHUNGSZENTRUM JUELICH GMBH - GERMANY
BUNDESFORSCHUNGS-UND AUSBILDUNGSZENTRUM FÄCER WALD, NATURGEFAHREN UND LANDSCHAFT - AUSTRIA
UNIVERSITATEA DIN BUCURESTI - ROMANIA
MTA OKOLOGIAI ES BOTANIKAI KUTATOINTEZETE - HUNGARY
NORWEGIAN INSTITUTE FOR AGRICULTURAL AND ENVIRONMENTAL RESEARCH - BIOFORSK - NORWAY
MIEDZYNARODOWY INSTYTUT POLSKIEJ AKADEMII NAUK - EUROPEJSKIE REGIONALNE CENTRUM EKOHYDROLOGII - POLAND
STATNE LESY TATRANSKEHO NARODNEHO PARKU, **STATE FORESTS OF TANAP - SLOVAKIA**

Project Description: EXPEER will bring together, major observational, experimental, analytical and modelling facilities in ecosystem science in Europe. By uniting these highly instrumented ecosystem research facilities under the same umbrella and with a common vision, EXPEER will form a key contribution to structuring and improving the European Research Area (ERA) within terrestrial ecosystem research.

EXPEER builds on an ambitious plan for networking research groups and facilities. The joint research activities will provide a common framework and roadmap for improving the quality, interaction and individual as well as joint performance of these infrastructures in a durable and sustainable manner. EXPEER will provide a framework for increased use and exploitation of the unique facilities through a strong and coordinated programme for Transnational Access to the infrastructures. Extensive outreach and collaboration with related networks, infrastructures as well as potential funding bodies will ensure that EXPEER will contribute with its key experiences to the shaping and designing of future research networks and infrastructures, and that it has full support from all stakeholders in reaching its long-term objectives.

Project Objectives: The establishment of the EXPEER Integrated Infrastructure will enable integrated studies of the impacts of climate change, land use change and loss of biodiversity in terrestrial ecosystems through two major steps:

1. Bringing together the EXPEER Infrastructures to enable collaboration and integration of observational, experimental and modelling approaches in ecosystem research (in line with the concept developed in ANAEE);
2. Structuring existing network of ecosystem observational, monitoring and experimental sites across Europe (LTER-Europe).

Through its integrated partnership, uniting both the experimental, observational, analytical and modelling research communities, EXPEER has the multidisciplinary expertise and critical mass to integrate and structure the European long-term ecosystem research facilities providing improved services and benefits to the whole research community as well as the society in general.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 39 224.4

SK Participant EC Financial Contribution: EUR 38 435.69

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

GN3

Project ID: 238875

Project Title: Multi-Gigabit European Research and Education Network and Associated Services (GN3)

Project website: <http://geant3.archive.geant.net/pages/home.aspx>

Project Start Date: 2009-04-01

Project End Date: 2013-09-30

Project Total Cost: EUR 177 677 472

Project EC Financial Contribution: EUR 93 000 000

Slovak participant Name: ZDRUZENIE POUZIVATELOV SLOVENSKEJAKADEMICKEJ DATOVEJ SIETE-SANET, Association of the users of Slovak Academic Data Network

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Contact person email/ phone: Mr. Pavol Horvath, pavol.horvath@stuba.sk, +421 2 57 294 447

Partners of the Consortium:

DELIVERY OF ADVANCED NETWORK TECHNOLOGY TO EUROPE LIMITED - UNITED KINGDOM
VEREIN ZUR FOERDERUNG EINES DEUTSCHEN FORSCHUNGSNETZES DFN VEREIN E.V. - GERMANY
FONDATION RESTENA - LUXEMBOURG (GRAND-DUCHÉ)
CESNET, ZAJMOVE SDRUZENI PRAVNICKYCH OSOB - CZECH REPUBLIC
BELNET - BELGIUM
INSTYTUT CHEMII BIOORGANICZNEJ PAN - POLAND
ESTONIAN EDUCATIONAL AND RESEARCH NETWORK - ESTONIA
INTER UNIVERSITY COMPUTATION CENTRE - ISRAEL
SWITCH -TELEINFORMATIKDIENSTE FUER LEHRE UND FORSCHUNG - SWITZERLAND
GREEK RESEARCH AND TECHNOLOGY NETWORK S.A. - GREECE
NORDUNET A/S - DENMARK
NEMZETI INFORMACIOS INFRASTRUKTURA FEJLESZTESI IRODA - HUNGARY
GROUPEMENT D'INTERET PUBLIC RESEAU NATIONAL DE TELECOMMUNICATIONS POUR LA TECHNOLOGIE, L'ENSEIGNEMENT ET LA RECHERCHE - FRANCE
LATVIJAS UNIVERSITATES MATEMATIKAS UN INFORMATIKAS INSTITUTS - LATVIA
UNIVERZITET U BEOGRADU - SERBIA
KYPRIAKO EREVNITIKO KAI AKADIMAIKO DIKTYO - CYPRUS
SS. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE - THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA
KAUNO TECHNOLOGIJOS UNIVERSITETAS - LITHUANIA
JAVNA USTANOVA UNIVERZITET CRNE GORE PODGORICA - MONTENEGRO
UNIVERSITAET WIEN - AUSTRIA
TRANS-EUROPEAN RESEARCH AND EDUCATION NETWORKING ASSOCIATION - NETHERLANDS
CONSORTIUM GARR (GESTIONE AMPLIAMENTO RETE RICERCA) - ITALY
HEANET LTD - ÉIRE/IRELAND
ENTIDAD PUBLICA EMPRESARIAL RED.ES - SPAIN
SURFNET BV - NETHERLANDS
FUNDACAO PARA A COMPUTACAO CIENTIFICA NACIONAL - FCCN - PORTUGAL
THE JNT ASSOCIATION - UNITED KINGDOM
HRVATSKA AKADEMSKA I ISTRAZIVACKA MREZA - CARNET - CROATIA
AGENTIA DE ADMINISTRARE A RETELEI NATIONALE DE INFORMATICA PENTRU EDUCATIE SI CERCETARE - ROMANIA
UNIVERSITA TA MALTA - MALTA
TUBITAK ULUSAL AKADEMIK AG VE BILGI MERKEZI - TURKEY
BULGARIAN RESEARCH AND EDUCATION NETWORK - BULGARIA
ARNES - SLOVENIA

ZDRUZENIE POUZIVATELOV SLOVENSKEJAKADEMICKEJ DATOVEJ SIETE-SANET, ASSOCIATION OF THE USERS OF SLOVAK ACADEMIC DATA NETWORK- SLOVAKIA

Project Description and Objectives: The objective of this proposal is the creation of a leading edge network supporting a much enhanced range of both network and added value services targeted at end-users across the GEANT service area. A principal goal will be to create a portfolio of seamless multi-domain services. In contrast to its predecessor, GN2, much more emphasis is placed on service development and service introduction.

Initiatives are planned in the areas of multi-domain network service operation, where it is planned to organise quick and efficient provisioning of advanced services, develop operational support crossing management domains and security to ensure service integrity and protection of network resources. This will be complemented by the development of end-user services in a federated environment which will focus on the creation of generic „meta-services“, particularly in the context of security as well as further developments in the area of Roaming Services.

Individual Tasks within the Joint Research Activities (JRAs) will be of shorter duration and more targeted than in GN2. The initial JRAs will deal with a critical analysis of future networking technologies as well as research into new services both from the point of supporting the development of new services as well as researching into enhancements to the emerging service portfolio (monitoring, mobility and resources management).

These will be supported by Networking Activities (NAs) dealing with both internal and external project communications. A particular emphasis of the NAs will be to support and encourage the take up of services among end-users by working closely with NRENs. The need to develop this theme co-operatively with other world regions is recognised by the inclusion of an activity specifically targeted to achieve this. A committee of the NREN proposers (NREN Policy Committee) deals with overall policy and a Project Board (Executive Committee in GN2) oversees its implementation.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

GN3PLUS

Project ID: 605243

Project Title: Multi-Gigabit European Research and Education Network and Associated Services

Project website:

Project Start Date: 2013-04-01

Project End Date: 2015-03-31

Project Total Cost: EUR 85 205 382

Project EC Financial Contribution: EUR 41 800 000

Slovak participant Name: ZDRUZENIE POUZIVATELOV SLOVENSKEJAKADEMICKEJ DATOVEJ SIETE-SANET, Association of the users of Slovak Academic Data Network

Slovak participant address: Vazovova 5, 812 43 Bratislava

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Partners of the Consortium:

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TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY
VEREIN ZUR FOERDERUNG EINES DEUTSCHEN FORSCHUNGSNETZES DFN VEREIN E.V. - GERMANY
INSTITUTE FOR INFORMATICS AND AUTOMATION PROBLEMS OF THE NATIONAL ACADEMY OF SCIENCES OF THE REPUBLIC OF ARMENIA - ARMENIA
GROUPEMENT D'INTERET PUBLIC POUR LERESAU NATIONAL DE TELECOMMUNICATIONS POUR LA TECHNOLOGIE L ENSEIGNEMENT ET LA RECHERCHE - FRANCE
ENTIDAD PUBLICA EMPRESARIAL RED.ES - SPAIN
JAVNA USTANOVA UNIVERZITET CRNE GORE PODGORICA - MONTENEGRO
UNIVERSITAET WIEN - AUSTRIA
GEORGIAN RESEARCH AND EDUCATIONAL NETWORKING ASSOCIATION - GEORGIA
HARIDUSE INFOTEHNOLOGIA SIHTASUTUS - ESTONIA
ASSOCIATION OF USERS OF UKRAINIAN RESEARCH AND ACADEMIC NETWORK URAN - UKRAINE
FUNDACAO PARA A COMPUTACAO CIENTIFICA NACIONAL - FCCN - PORTUGAL
KAUNO TECHNOLOGIJOS UNIVERSITETAS - LITHUANIA
UNIVERZITET U BEOGRADU - SERBIA
INTER UNIVERSITY COMPUTATION CENTRE - ISRAEL
CYPRUS RESEARCH AND ACADEMIC NETWORK - CYPRUS
BULGARIAN RESEARCH AND EDUCATION NETWORK - BULGARIA
AZERBAIJAN RESEARCH AND EDUCATIONAL NETWORKS ASSOCIATION - AZERBAIJAN
THE JNT ASSOCIATION - UNITED KINGDOM
NORDUNET A/S - DENMARK
CESNET, ZAJMOVE SDRUZENI PRAVNICKYCH OSOB - CZECH REPUBLIC
AGENTIA DE ADMINISTRARE A RETELEI NATIONALE DE INFORMATICA PENTRU EDUCATIE SI CERCETARE - ROMANIA
RESEARCH AND EDUCATIONAL NETWORKING ASSOCIATION OF MOLDOVA - MOLDOVA
FONDATION RESTENA - LUXEMBOURG (GRAND-DUCHÉ)
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SURFNET BV - NETHERLANDS
SWITCH - SWITZERLAND
ARNES - SLOVENIA
BELNET - BELGIUM
TRANS-EUROPEAN RESEARCH AND EDUCATION NETWORKING ASSOCIATION - NETHERLANDS
CONSORTIUM GARR - ITALY

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ZDRUZENIE POUZIVATELOV SLOVENSKEJAKADEMICKEJ DATOVEJ SIETE-SANET, ASSOCIATION OF THE USERS OF SLOVAK ACADEMIC DATA NETWORK- SLOVAKIA

Project Description: This proposal details activities that will ensure the continued enhancement and ongoing operation of the leading-edge GÉANT network, supporting a range of network and added-value services, targeted at users across the GÉANT service area. In the area of multi-domain network service operation, GN3plus plans to deliver fast, efficient provisioning of advanced services, develop operational support across management domains, and improve security to ensure service integrity and protect network resources.

Project Objectives: These initiatives will be complemented by the development of application services in a federated environment – such as mobile and wireless roaming – supported by safe and secure Authentication and Authorisation Infrastructure. Networking Activities will provide management and support for all GN3plus activities through communication, promotion, international liaison and business development. Emphasis will be placed on supporting and encouraging service take-up among users by working closely with NRENs. GÉANT will increase digital inclusion through closer collaboration between NRENs, exchange of staff and specialist expertise, as well as by seeking synergies between public administrations and the GN3plus partners using their vast, shared knowledge base. Joint Research Activities will be targeted at providing critical analyses of future network and application technologies, with a view to future deployment of emerging technologies within and outside the GÉANT community. The governance model aims to increase effectiveness and user influence. The GN3plus Partners' Assembly will deal with overall policy and an Executive Board will oversee its implementation. An International User Advisory Committee and External Advisory Committee will ensure users' views and senior industry and service provider expertise are channelled directly to the Assembly. Specialised Advisory Boards will ensure highly efficient decision making, and that the voice of the stakeholder community is heard.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 23 481

SK Participant EC Financial Contribution: EUR 19 112

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

LASERLAB -EUROPE

Project ID: 228334

Project Title: The Integrated Initiative of European Laser Research Infrastructures II

Project website: <http://www.laserlab-europe.net/>

Project Start Date: 2009-03-01

Project End Date: 2012-05-31

Project Total Cost: EUR 11 847 178

Project EC Financial Contribution: EUR 10 000 000

Slovak participant Name: MEDZINARODNE LASEROVE CENTRUM, International Laser Centre

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INSTITUTO SUPERIOR TECNICO - PORTUGAL
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LUNDS UNIVERSITET - SWEDEN
FRIEDRICH-SCHILLER-UNIVERSITAET JENA - GERMANY
LATVIJAS UNIVERSITATE - LATVIA
LABORATORIO EUROPEO DI SPETTROSCOPIE NON LINEARI - ITALY
UNIVERSITY OF STRATHCLYDE - UNITED KINGDOM
COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE
VERENIGING VOOR CHRISTELIJK HOGER ONDERWIJS WETENSCHAPPELIJK
ONDERZOEK EN PATIENTENZORG - NETHERLANDS
WOJSKOWA AKADEMIA TECHNICZNA - MILITARY UNIVERSITY OF TECHNOLOGY -
POLAND
POLITECNICO DI MILANO - ITALY
FYZIKALNI USTAV AV CR V.V.I. - CZECH REPUBLIC
INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU FIZICA LASERILOR
PLASMEI SI RADIATIEI - ROMANIA
GSI HELMHOLTZZENTRUM FUER SCHWERIONENFORSCHUNG GMBH - GERMANY
CENTRO DE LASERES PULSADOS ULTRACORTOS ULTRAITENSOS - SPAIN
VILNIAUS UNIVERSITETAS - LITHUANIA
FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE
ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES METHODES ET
PROCESSUS INDUSTRIELS - ARMINES - FRANCE
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE
MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V. -
GERMANY
SZEGEDI TUDOMANYEGYETEM - HUNGARY

MEDZINARODNE LASEROVE CENTRUM, INTERNATIONAL LASER CENTRE- SLOVAKIA

Project Description: LASERLAB-EUROPE II is a Consortium of Laser Research Infrastructures from the majority of the European member states, forming a FP7 Integrated Infrastructure Initiative.

Project Objectives: Given the importance of lasers and their applications in all areas of sciences, life sciences and technologies, the main objectives of the Consortium are:
- To form a competitive, inter-disciplinary network of European national laser laboratories;
- To strengthen the European leading role in laser research through Joint Research Activities (JRA), pushing the laser concept into new directions and opening up new applications of key importance;
- To engage in the Transnational Access Programme in a co-ordinated fashion for the benefit of the European research community.
- To increase the European basis in laser research and applications by reaching out to neighboring scientific communities and by assisting the development of Laser Research Infrastructures on both the national and the European level.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 125 927.2

SK Participant EC Financial Contribution: EUR 89 634

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

LASERLAB- EUROPE

Project ID: 284464

Project Title: The Integrated Initiative of European Laser Research Infrastructures III

Project website: <http://www.laserlab-europe.eu/>

Project Start Date: 2012-06-01

Project End Date: 2015-11-30

Project Total Cost: EUR 10 909 124

Project EC Financial Contribution: EUR 8 650 000

Slovak participant Name: MEDZINARODNE LASEROVE CENTRUM, International Laser Centre

Slovak participant address: Ilkovičova 3, 841 04 Bratislava

Contact person email/ phone: Dr. Dusan Chorvat, +421 2 65 421 575, dusan@ilc.sk

Partners of the Consortium:

LUNDS UNIVERSITET - SWEDEN
LABORATORIO EUROPEO DI SPETTROSCOPIE NON LINEARI - ITALY
FORSCHUNGSVERBUND BERLIN E.V. - GERMANY
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL - UNITED KINGDOM
FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE
INSTITUTO SUPERIOR TECNICO - PORTUGAL
SZEGEDI TUDOMANYEGYETEM - HUNGARY
POLITECNICO DI MILANO - ITALY
VILNIAUS UNIVERSITETAS - LITHUANIA
FUNDACIO INSTITUT DE CIENCIAS FOTONICAS - SPAIN
MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V. -
GERMANY
GSI HELMHOLTZZENTRUM FUER SCHWERIONENFORSCHUNG GMBH - GERMANY
COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE
STICHTING VU-VUMC - NETHERLANDS
WOJSKOWA AKADEMIA TECHNICZNA IM JAROSLAWA DABROWSKIEGO - POLAND
HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV - GERMANY
LATVIJAS UNIVERSITATE - LATVIA
FYZIKALNI USTAV AV CR V.V.I. - CZECH REPUBLIC
UNIVERSITY OF STRATHCLYDE - UNITED KINGDOM
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE
VERENIGING VOOR CHRISTELIJK HOGER ONDERWIJS WETENSCHAPPELIJK
ONDERZOEK EN PATIENTENZORG - NETHERLANDS
CENTRO DE LASERES PULSADOS ULTRACORTOS ULTRAITENSOS - SPAIN
INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU FIZICA LASERILOR
PLASMEI SI RADIATIEI - ROMANIA

MEDZINARODNE LASEROVE CENTRUM, INTERNATIONAL LASER CENTRE- SLOVAKIA

Project Description: LASERLAB-EUROPE III is the European Consortium of major Laser Research Infrastructures, forming a FP7 Integrated Infrastructure Initiative. Geographically it covers the majority of European member states, following recent efforts to include partners from all over Europe 27. Scientifically, it covers many areas of laser science and applications with particular emphasis on short-pulses and high-intensities.

Recently this field has experienced remarkable advances and breakthroughs in laser technologies and beam parameters. Novel applications range from coherent x-ray generation, laser particle acceleration, laboratory astrophysics, and attosecond physics to fusion research, materials research, and biomedicine, to name only few. Consequently and also as a sign of its exceptional internal coherence - the European laser community has engaged in the world's first truly international laser infrastructures, ELI and HiPER. Besides offering unprecedented research opportunities these infrastructures, together with the LASERLAB-EUROPE III Consortium, will substantially contribute to innovation and help addressing the grand societal challenges.

Project Objectives: The main objectives are:

- To maintain a competitive, inter-disciplinary network of European national laser laboratories;
- To strengthen the European leading role in laser research through Joint Research Activities, pushing the laser concept into new directions and opening up new applications of key importance in research and innovation;
- To engage in Transnational Access in a highly co-ordinated fashion for the benefit of the European research community;
- To increase the European basis in laser research and applications by reaching out to neighbouring scientific communities and assisting in the development of laser research infrastructures on both the national and the European level, particularly the Pan-European infrastructures ELI and HiPER.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 47 080

SK Participant EC Financial Contribution: EUR 33 750

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

LIFEWATCH

Project ID: 211372

Project Title: Life Watch

Project website: <http://www.lifewatch.eu/web/guest/home>

Project Start Date: 2008-02-01

Project End Date: 2011-01-31

Project Total Cost: EUR 6 370 497.8

Project EC Financial Contribution: EUR 4 999 998.74

Slovak participant Name: USTAV KRAJINNEJ EKOLOGIE SLOVENSKEJ AKADEMIE VIED, Institute of Landscape Ecology of the Slovak Academy of Sciences

Slovak participant address: Štefánikova 3, 814 99 Bratislava

Contact person email/ phone: Július Oszlányi, julius.oszlanij@savba.sk, 02-20920334

Partners of the Consortium:

UNIVERSITEIT VAN AMSTERDAM - NETHERLANDS
NATURAL ENVIRONMENT RESEARCH COUNCIL - UNITED KINGDOM
NEDERLANDSE ORGANISATIE VOOR WETENSCHAPPELIJK ONDERZOEK - NETHERLANDS
NATURAL HISTORY MUSEUM - UNITED KINGDOM
HEALTHGRID - FRANCE
MUSEUM AND INSTITUTE OF ZOOLOGY - POLISH ACADEMY OF SCIENCES - POLAND
UMWELTBUNDESAMT GMBH - AUSTRIA
SUOMEN YMPARISTOKESKUS - SUOMI/FINLAND
MUSEUM NATIONAL D'HISTOIRE NATURELLE - FRANCE
NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS - GREECE
FREIE UNIVERSITAET BERLIN - GERMANY
FUNDAÇÃO PARA A CIÊNCIA E A TECNOLOGIA - PORTUGAL
INSTITUUT VOOR NATUUR EN BOSONDERZOEK - BELGIUM
SABANCI UNIVERSITY - TURKEY
COMUNITA AMBIENTE - ITALY
CARDIFF UNIVERSITY - UNITED KINGDOM
AARHUS UNIVERSITET - DENMARK
UNIVERSITY OF THE WEST OF ENGLAND, BRISTOL - UNITED KINGDOM
STIFTELSEN NORSK INSTITUTT FOR NATURFORSKNING - NORWAY
FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V - GERMANY
ZNANSTVENORAZISKOVALNI CENTER SLOVENSKE AKADEMIJE ZNANOSTI IN UMETNOSTI - SLOVENIA
MTA OKOLOGIAI ES BOTANIKAI KUTATOINTEZETE - HUNGARY
CONSIGLIO NAZIONALE DELLE RICERCHE - ITALY
EIGEN VERMOGEN VAN HET INSTITUUT VOOR NATUUR- EN BOSONDERZOEK - BELGIUM
UNIVERSITATEA DIN BUCURESTI - ROMANIA
KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN - KNAW - NETHERLANDS
GOETEBORGS UNIVERSITET - SWEDEN
AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS - SPAIN
NATURHISTORISKA RIKSMUSEET - SWEDEN
VETENSKAPSRADET - SWEDISH RESEARCH COUNCIL - SWEDEN
SERVICE PUBLIC FEDERAL DE PROGRAMMATION POLITIQUE SCIENTIFIQUE - BELGIUM
STICHTING CENTRUM VOOR WISKUNDE EN INFORMATICA - NETHERLANDS

USTAV KRAJINNEJ EKOLOGIE SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF LANDSCAPE ECOLOGY OF THE SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The Life Watch e-Science and Technology Infrastructure for biodiversity data and observatories will be a large-scale European research infrastructure bringing together:
- a system of marine, terrestrial and freshwater observatories;
- common access to a huge amount of interlinked, distributed data from databases and monitoring sites;
- computational facilities in virtual laboratories with analytical and modelling tools;
- targeted user and training support and a programme for public services.

Project Objectives: To strengthen Science - Policy interface in the field of biodiversity protection. The scientists had to initiate and participate in the process of creation of the ESFRI (European Strategy Forum on Research Infrastructures) in each EU member country, i.e. in Slovakia. During the project, the personnel at the Ministry of Education of the Slovak Republic were informed, explanation provided and urged. Project outcomes are visible only in 2013 and 2014. Taking the first steps towards SR participation in ESFRI.

Profile of Slovak Participant/ -s: The Institute of Landscape Ecology of the Slovak Academy of Sciences (ILE SAS) is an interdisciplinary scientific institution for basic and applied research in landscape ecology. At present, the main research tasks of the institute are: evaluating the influence of anthropogenic factors on the landscape, sustainable land use, ecological networks, preservation of biodiversity and geocodiversity, and ES. The methodology of landscape-ecological planning, LANDEP, which is included in Agenda 21 from the Rio Summit as the suggested methodology for an integrated approach to the management of natural resources (Chapter 10 in Agenda 21), was elaborated at the ILE SAS. The ILE SAS is Centre of Excellence for protection and utilisation of landscape and biodiversity. It has an important place within the frame of international cooperation. It takes part in many international projects, including projects in the 5th, 6th and 7th EC Framework Programmes. The Institute is also involved in education.

SK Participant Project Cost: EUR 7 680

SK Participant EC Financial Contribution: EUR 5 136

Project Outcomes planned/real: To strengthen Science - Policy interface in the field of biodiversity protection. The scientists had to initiate and participate in the process of creation of the ESFRI (European Strategy Forum on Research Infrastructures) in each UE member country, i.e., in Slovakia. During the project duration, the personnel at the Ministry of Education of the Slovak Republic were informed, explanation provided and urged. Project outcomes are visible only in 2013 and 2014. First steps towards SR participation in ESFRI taken.

Slovak Participant's Role in Project: To strengthen Science - Policy interface in the field of biodiversity protection. The scientists had to initiate and participate in the process of creation of the ESFRI (European Strategy Forum on Research Infrastructures) in each UE member country, i.e., in Slovakia. During the project duration, the personnel at the Ministry of Education of the Slovak Republic were informed, explanation provided and urged. Project outcomes are visible only in 2013 and 2014. First steps towards SR participation in ESFRI taken.

MICROKELVIN

Project ID: 228464

Project Title: European Microkelvin Collaboration

Project website: <http://www.microkelvin.eu/>

Project Start Date: 2009-04-01

Project End Date: 2013-09-30

Project Total Cost: EUR 5 396 177.4

Project EC Financial Contribution: EUR 4 199 989

Slovak participant Name: USTAV EXPERIMENTALNE FYZIKY SLOVENSKEJ AKADEMIE VIED, Institute of Experimental Physics, Slovak Academy of Sciences

Slovak participant address: Watsonova 1935/47, 040 01 Košice

Contact person email/ phone: Dr. Peter Skyba, skyba@saske.sk, +00421556228158

Partners of the Consortium:

AALTO-KORKEAKOULUSAATIO - SUOMI/FINLAND
LANCASTER UNIVERSITY - UNITED KINGDOM
UNIVERSITEIT LEIDEN - NETHERLANDS
PHYSIKALISCH-TECHNISCHE BUNDESANSTALT - GERMANY
UNIVERSITAET BASEL - SWITZERLAND
ROYAL HOLLOWAY AND BEDFORD NEW COLLEGE - UNITED KINGDOM
TECHNISCHE UNIVERSITEIT DELFT - NETHERLANDS
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE
BLUEFORS CRYOGENICS OY - SUOMI/FINLAND
SCUOLA NORMALE SUPERIORE DI PISA - ITALY
RUPRECHT-KARLS-UNIVERSITAET HEIDELBERG - GERMANY

USTAV EXPERIMENTALNE FYZIKY SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF EXPERIMENTAL PHYSICS, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: By integration and rationalization MICROKELVIN aims to put this existing infrastructure at the disposal of the wider community and together develop new techniques and materials to bring coherent structures into the completely new regime.

Project Objectives: Ultimate aim of the project is the creation of virtual European microkelvin „laboratory without walls“ operating as a single entity. Integration will also allow us to pool our existing expertise and project it outward by creating new stand-alone machines able to access this temperature range anywhere. Such activity will also encourage European commercial interest in this opportunity. The infrastructure is there. The need is manifest. We simply have to bring the two together.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 64 000

SK Participant EC Financial Contribution: EUR 45 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MONDILEX

Project ID: 211938

Project Title: Conceptual Modelling of Networking of Centres for High-Quality Research in Slavic Lexicography and Their Digital Resources

Project website: <http://www.mondilex.org/>

Project Start Date: 2008-04-01

Project End Date: 2010-03-31

Project Total Cost: EUR 336 452.4

Project EC Financial Contribution: EUR 299 999.68

Slovak participant Name: JAZYKOVEDNY USTAV LUDOVITA STURA SLOVENSKEJ AKADEMIE VIED- Slovenský národný korpus, Ľ. Štúr Institute of Linguistics of the Slovak Academy of Sciences - Slovak National Corpus

Slovak participant address: Panská 26, 813 64 Bratislava

Contact person email/ phone: Radovan Garabik <radovan.garabik@kassiopeia.juls.savba.sk> +421254410307, Dr. Slavomír Ondrejovic, slavoo@juls.savba.sk, info@juls.savba.sk, +421 2 54 418 358

Partners of the Consortium:

INSTITUTE OF MATHEMATICS AND INFORMATICS OF THE BULGARIAN ACADEMY OF SCIENCE - BULGARIA

INSTITUT JOZEF STEFAN - SLOVENIA

UKRAINIAN LINGUA-INFORMATION FUND OF THE NATIONAL ACADEMY OF SCIENCES OF UKRAINE - UKRAINE

INSTITUTE FOR INFORMATION TRANSMISSION PROBLEMS RUSSIAN ACADEMY OF SCIENCES IITP - RUSSIA

INSTYTUT SLAWISTYKI POLSKIEJ AKADEM II NAUK – POLAND

JAZYKOVEDNY USTAV LUDOVITA STURA SLOVENSKEJ AKADEMIE VIED- SLOVENSÝ NÁRODNÝ KORPUS, Ľ. ŠTÚR INSTITUTE OF LINGUISTICS OF THE SLOVAK ACADEMY OF SCIENCES - SLOVAK NATIONAL CORPUS- SLOVAKIA

Project Description: N/A

Project Objectives: The main objective of the project is to design a conceptual scheme of a research infrastructure, supporting the networking of centres for high-quality research in Slavic lexicography, fostering their scientific capacity, integrating their digital resources and opening them up to the European academic community. The project will provide strategies for the coordination, unification and extension of existing digital lexical resources, and the creation of new ones, in accordance with the recent advances in the field and the international standards. This will ensure their reusability and interoperability, so that researchers in humanities and social sciences, as well as businesses, will have easy access to digital bi- and multilingual dictionaries of Slavic languages. Thus the project will contribute to preserving and supporting the multilingual and multicultural European heritage. In more distant perspective, we envisage the creation of a general lexical database, with the possibility of search entries in any Slavic language, with information on the words' etymology and correspondences in all Slavic languages, and in English. The data base will possess a rich system of links between forms and meanings of words in synchrony and diachrony. An interactive Web portal will enable the supervised extension of the data base by the end users (Wiki-style), and ensure fast growth and relevance to users' needs. The partners in the project are research organisations from six European countries, whose six national languages belong to the Slavic group: Bulgaria, Poland, Russia, Slovakia, Slovenia and Ukraine. All partners are national centres for high-quality research in lexicography and digital resources. Each partner is responsible for coordinating a part of the work, matching their specialisation and experience. The six thematic working groups are designed as fora for discussing specific parts of the project, and the work programme provides a detailed breakup of the task in time.

Profile of Slovak Participant/ -s: Slovak National Corpus Department carries natural language processing research, covering broad aspects of Slovak linguistics. It is involved in various successful projects, the most prominent being the Slovak National Corpus – a representative corpus of contemporary Slovak language written texts published in 1955-2014, containing about 830 million words with automatic lemmatisation and morphology analysis. Smaller, balanced subcorpus consists of one third of journalistic texts, one third of specialised texts, and one third of fiction, reaching the size of 317 million words. Another subcorpus contains manually lemmatised and annotated texts of about 1.2 million words. Manually syntactically annotated corpus contains about 70000 sentences.

The Ľ. Štúr Institute of Linguistics is the central linguistic institution in the Slovak Republic. Its main areas of research and activities comprise the research of contemporary Slovak language, Slovak dialectology, study of history of the Slovak language, as well as an interaction with general and comparative linguistics. Recently, the institute started to work in the fields of etymology and corpus linguistics. The sociolinguistic and culturological approaches are gaining momentum across various research topics. The institute has a long tradition of compiling dictionaries, either for academia or for the general public, producing linguistic atlases and specialised publications presenting different aspects of linguistic research.

SK Participant Project Cost: EUR 55 986

SK Participant EC Financial Contribution: EUR 49 920

Project Outcomes planned/real: The main objective of the project was to design the conceptual scheme of a research infrastructure, supporting the networking of centres for high-quality research in Slavic lexicography, fostering their scientific capacity, integrating their digital resources, and opening them up to the European academic community. The project provided strategies for the coordination, unification and extension of existing digital lexical resources, and the creation of new ones. Thus, the project contributed to preserving and supporting the multilingual and multicultural European heritage.

The project exhibited multidisciplinary character, consisting of uniting the effort of linguistic and computer science communities, applying up-to-date techniques of processing dictionary systems (information theory of lexicographic systems), and using state-of-art network technologies for information exchange between task groups. The project laid the foundations for further cooperation, set up and elaborated a methodology of interaction of remote research groups, and coordination of formats of lexicographic resources.

Slovak Participant's Role in Project: Main effort of the Ľ. Štúr Institute of Linguistics has been to explore the possibilities of collaborative compiling and editing of mono- and bilingual dictionaries and other lexical databases, using, whenever possible, existing Open Source software resources. Towards this goal, an implementation of several wiki-based lexicography databases has been included: a database of Slovak language morphology, a Slovak-Czech bilingual lexicography database, and a database of Slovak collocations, including a system of mutual linking and references to the existing electronic dictionaries and text corpora.

The second area of the involvement relates to corpus linguistics terminology, where the key terminological issue was to harmonise and describe the definitions, ensuring consistency and clarity of information across the languages, especially when communicating with experts from various countries, where the use of a bridge language (usually English or Russian) is often insufficient or awkward. A multilingual terminology database of corpus linguistics terms has been designed and implemented, with the goal of describing terminology of all the MONDILEX languages. The database has been tested with several Slavic languages.

NMDB

Project ID: 213007

Project Title: Real-Time database for high resolution Neutron Monitor measurements

Project website: <http://www.nmdb.eu/>

Project Start Date: 2008-01-01

Project End Date: 2009-12-31

Project Total Cost: EUR 669 888

Project EC Financial Contribution: EUR 500 000

Slovak participant Name: USTAV EXPERIMENTALNE FYZIKY SLOVENSKEJ AKADEMIE VIED, Institute of Experimental Physics, Slovak Academy of Sciences

Slovak participant address: Watsonova 1935/47, 040 01 Košice

Contact person email/ phone: Mr. Stanislav Uliciansky, ulicians@saske.sk, +421 55 792 220

Partners of the Consortium:

CHRISTIAN-ALBRECHTS-UNIVERSITAET ZU KIEL - GERMANY
TEL AVIV UNIVERSITY - ISRAEL
NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS - GREECE
OULUN YLIOPISTO - SUOMI/FINLAND
INSTITUTE OF TERRESTRIAL MAGNETISM, IONOSPHERE AND RADIO WAVE PROPAGATION OF THE RUSSIAN ACADEMY OF SCIENCES - RUSSIA
YEREVAN PHYSICS INSTITUTE AFTER A.I. ALIKHANYAN - ARMENIA
UNIVERSIDAD DE ALCALA - SPAIN
UNIVERSITAET BERN - SWITZERLAND
UNIVERSITA DEGLI STUDI ROMA TRE - ITALY
OBSERVATOIRE DE PARIS - FRANCE
INSTITUTE OF IONOSPHERE, MINISTRY OF EDUCATION AND SCIENCE - KAZAKHSTAN

USTAV EXPERIMENTALNE FYZIKY SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF EXPERIMENTAL PHYSICS, SLOVAK ACADEMY OF SCIENCES - SLOVAKIA

Project Description and Objectives: The proposal unifies for the first time the cosmic ray community of the European neutron monitor network in a coordinated effort to advance the use of cosmic ray data in cutting-edge applications, as e.g. space weather.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 24 000

SK Participant EC Financial Contribution: EUR 16 800

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

OPENAIRE

Project ID: 246686

Project Title: Open Access Infrastructure for Research in Europe

Project website: <https://www.openaire.eu/>

Project Start Date: 2009-12-01

Project End Date: 2012-11-30

Project Total Cost: EUR 5 027 379

Project EC Financial Contribution: EUR 4 169 927

Slovak participant Name: UNIVERZITNA KNIZNICA V BRATISLAVE, The University Library in Bratislava

Slovak participant address: Michalská 1, 814 17 Bratislava

Contact person email/ phone: Ing. Alojz Androvic, PhD. alojz.androvic@ulib.sk, +421 905 657 140

Partners of the Consortium:

NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS - GREECE
DANMARKS TEKNISKE UNIVERSITET - DENMARK
EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH - SWITZERLAND
UNIVERSIDADE DO MINHO - PORTUGAL
THE PROVOST FELLOWS & SCHOLARS OF THE COLLEGE OF THE HOLY AND UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN - ÉIRE/IRELAND
KAUNO TECHNOLOGIJOS UNIVERSITETAS - LITHUANIA
DEUTSCHES KLIMARECHENZENTRUM GMBH - GERMANY
UNIVERSITAET BIELEFELD - GERMANY
VYSOKA SKOLA BANSKA - TECHNICKA UNIVERZITA OSTRAVA - CZECH REPUBLIC
THE UNIVERSITY OF NOTTINGHAM - UNITED KINGDOM
CONSIGLIO NAZIONALE DELLE RICERCHE - ITALY
CONSORTIUM UNIVERSITAIRE DE PUBLICATIONS NUMERIQUES COUPERIN - FRANCE
LATVIJAS UNIVERSITATE - LATVIA
EUROPEAN MOLECULAR BIOLOGY LABORATORY - GERMANY
FUNDACION ESPANOLA PARA LA CIENCIA Y LA TECNOLOGIA - SPAIN
SARMINFO SRL - ROMANIA
UNIVERSITEIT GENT - BELGIUM
MALTA COUNCIL FOR SCIENCE AND TECHNOLOGY - MALTA
GEORG-AUGUST-UNIVERSITAET GOETTINGEN STIFTUNG OEFFENTLICHEN RECHTS - GERMANY
HELSINGIN YLIOPISTO - SUOMI/FINLAND
INTERNATIONAL PLANT GENETIC RESOURCES INSTITUTE*IPGRI - ITALY
ETHNIKO IDRYMA EREVNON - GREECE
UNIwersytet warszawski - POLAND
UNIVERSITEIT UTRECHT - NETHERLANDS
UNIVERSITY OF CYPRUS - CYPRUS
INSTITUTE OF MATHEMATICS AND INFORMATICS AT THE BULGARIAN ACADEMY OF SCIENCE - BULGARIA
KUNGLIGA BIBLIOTEKET (NATIONAL LIBRARY OF SWEDEN) - SWEDEN
TARTU ULIKOOL - ESTONIA
STICHTING SURF - NETHERLANDS
AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS - SPAIN
UNIVERZA V LJUBLJANI - SLOVENIA
STICHTING EIFL.NET - NETHERLANDS
DEBRECENI EGYETEM - HUNGARY
UNIVERSITAET WIEN - AUSTRIA
UNIVERSITETET I TROMSOE - NORWAY
CONSORZIO INTERUNIVERSITARIO PER LE APPLICAZIONE DI SUPERCALCOLO PER UNIVERSITA E RICERCA - ITALY
UNIVERSITAT KONSTANZ - GERMANY

UNIVERZITNA KNIZNICA V BRATISLAVE, THE UNIVERSITY LIBRARY IN BRATISLAVA-SLOVAKIA

Project Description and Objectives: The proposed project will deliver an electronic infrastructure and supporting mechanisms for the identification, deposition, access, and monitoring of FP7 and ERC funded articles, where the main supporting mechanism will be the establishment and operation of the European Helpdesk System. Additionally, the project will offer a special repository for articles, that can be stored neither in institutional, nor in subject-based/thematic repositories, while it will also prepare the way for similar functionality on scientific data. All deposited articles and data will be freely accessible worldwide, through a new portal to the products of EU-funded research, built as part of this project. It will also connect research input (project contracts) with research output (publications and data), and monitor the system use, to obtain statistically-significant trends about both.

Thematically, the project will focus on peer-reviewed publications (primarily, journal articles in final or pre-print form, but also conference articles, when considered important), in at least the seven disciplines highlighted in the Open Access pilot (energy, environment, health, cognitive systems-interaction-robotics, electronic infrastructures, science in society, and socioeconomic sciences-humanities), and on research datasets in a subset of them.

Geographically, however, it will have a definitive European footprint, by covering the European Union in its entirety, engaging people and scientific repositories in almost all of its 27 member states and beyond.

The electronic infrastructure built by the project will be based on state-of-the-art software services of the D-NET package, developed within the DRIVER and DRIVER-II projects, and the Invenio digital repository software, developed at CERN. These will be further enhanced and complemented with services developed within OpenAIRE, to address critical requirements and issues that arise in the target environment and require further investigation.

Profile of Slovak Participant/ -s: The University Library in Bratislava is a major cultural, information, scientific and educational institution. It is a universal state research library for the entire Slovak Republic, allowing the general public free access to knowledge, and information distributed through many types of media. The Library carries out coordination, statistical, educational and methodological work for libraries in Slovakia. The University Library in Bratislava (ULB) is the oldest and largest research library in the Slovak Republic. It was established in 1919, as a library for the newly founded Comenius University. In parallel to its academic purpose, it has also served as the national library until 1954. At the very beginning, the Library gained the right to legal deposit. Since 1954, ULB has become a major research library that also serves the general public. The name *University Library* remains, as it speaks of its historical purpose, funding and user background. Over the years, the library has transformed from a classical library to a modern research library and multifunctional cultural centre.

SK Participant Project Cost: EUR 20 400

SK Participant EC Financial Contribution: EUR 18 580

OPENAIREPLUS

VYSOKA SKOLA BANSKA - TECHNICKA UNIVERZITA OSTRAVA - CZECH REPUBLIC
UNIVERSITEIT VAN AMSTERDAM – NETHERLANDS

UNIVERZITNA KNIZNICA V BRATISLAVE, THE UNIVERSITY LIBRARY IN BRATISLAVA-
SLOVAKIA

Project ID: 283595

Project Title: 2nd-Generation Open Access Infrastructure for Research in Europe

Project website:

Project Start Date: 2011-12-01

Project End Date: 2014-05-30

Project Total Cost: EUR 5 158 284

Project EC Financial Contribution: EUR 4 200 000

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HELSINGIN YLIOPISTO - SUOMI/FINLAND
FUNDACION ESPANOLA PARA LA CIENCIA Y LA TECNOLOGIA - SPAIN
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UNIVERSITEIT UTRECHT - NETHERLANDS
UNIVERZA V LJUBLJANI - SLOVENIA
ETHNIKO IDRYMA EREVNON - GREECE
THE UNIVERSITY OF NOTTINGHAM - UNITED KINGDOM
STICHTING EIFL.NET - NETHERLANDS
UNIVERSITAT KONSTANZ - GERMANY
SARMINFO SRL - ROMANIA
UNIVERSITAET BIELEFELD - GERMANY
KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN - KNAW -
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DEBRECENI EGYETEM - HUNGARY
UNIVERSITAET WIEN - AUSTRIA
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SCIENCE AND TECHNOLOGY FACILITIES COUNCIL - UNITED KINGDOM
CONSORZIO INTERUNIVERSITARIO PER LE APPLICAZIONE DI SUPERCALCOLO PER
UNIVERSITA E RICERCA - ITALY
TARTU ULIKOOL - ESTONIA

Project Description: OpenAIREplus (2nd-Generation Open Access Infrastructure for Research in Europe) is a project funded under the seventh Framework Programme (FP7) of the European Commission. OpenAIREplus will significantly expand in several directions the outcomes of the OpenAIRE project (2009-2012). Goal of OpenAIRE is to collect, manage and make accessible both the FP7 and the European Research Council funded articles. In addition to these publications, OpenAIREplus will also harvest, index and link metadata of scientific datasets.

Project Objectives: OpenAIREplus will build a 2nd-Generation Open Access Infrastructure, by significantly expanding in several directions the outcomes of the OpenAIRE project, which implements the EC Open Access (OA) pilot. Capitalizing on the OpenAIRE infrastructure, built for managing FP7 and ERC funded articles, and the associated supporting mechanism of the European Helpdesk System, OpenAIREplus will develop an open access, participatory infrastructure for scientific information. It will significantly expand its base of harvested publications, to also include all OA publications indexed by the DRIVER infrastructure (more than 270 validated institutional repositories), and any other repository containing peer-reviewed literature, that complies with certain standards. It will also generically harvest and index the metadata of scientific datasets in selected diverse OA thematic data repositories. It will support the concept of linked publications, by deploying novel services for linking peer-reviewed literature and associated data sets and collections, from link discovery based on diverse forms of mining (textual, usage, etc.), to storage, visual representation, and on-line exploration. It will offer both user-level services to experts and non-scientists alike, as well as programming interfaces for providers of value-added services, to build applications on its content. Deposited articles and data will be openly accessible through an enhanced version of the OpenAIRE portal, together with any available relevant information on associated project funding and usage statistics.

OpenAIREplus will retain its European footprint, engaging people and scientific repositories in almost all of the 27 EU member states and beyond. The technical work will be complemented by a suite of studies and associated research efforts that will partly proceed in collaboration with different European initiatives, and investigate issues of intellectual property rights, efficient financing models, and standards.

Profile of Slovak Participant/ -s: The University Library in Bratislava is a major cultural, information, scientific and educational institution. It is a universal state research library for the entire Slovak Republic, allowing the general public free access to knowledge and information distributed through many types of media. The Library carries out coordination, statistical, educational and methodological work for libraries in Slovakia. The University Library in Bratislava (ULB) is the oldest and largest research library in the Slovak Republic. It was established in 1919 as a library for the newly founded Comenius University. In parallel to its academic purpose it has also served as the national library until 1954. At the very beginning, the Library gained the right to legal deposit. Since 1954, ULB has become a major

Project Outcomes planned/real: OpenAIRE will deliver “an electronic infrastructure and supporting mechanisms for the identification, deposition, access, and monitoring of FP7 and ERC funded articles”, where the main supporting mechanism will be a European Helpdesk System. The infrastructure will be based on state-of-the-art software services of the D-Net Software Toolkit, developed within the DRIVER and DRIVER-II projects, and the Invenio digital repository software, developed at CERN. Although simple in conception, unrestricted availability of research publications (as well as scientific data) is still far from reality; the implementation of policies that promote Open Access to these important research products has proved to be challenging. For this reason, the recent European Commission Open Access Mandate pilot was followed by a Call soliciting pilot projects, aimed at developing a software system, addressing such issues in the context of published peer-reviewed articles reporting on outcomes of FP7, and European Research Council (ERC) projects in seven selected disciplines: energy, environment, health, cognitive systems/interaction/robotics, e-infrastructures, science in society, and socioeconomic sciences/humanities. The OpenAIRE project was financed to meet the pilot requirements. Thematically, the project focuses on publications in the pilot seven disciplines, and on research datasets in a subset of them: environment, health, cognitive systems/interaction/robotics, and socioeconomic sciences/humanities. The project will deliver a technical infrastructure, through which Open Access publications and research data will be harvested, author-ingested, curated and fruitfully combined with EC project information, and a networking infrastructure, through which the EC Open Access mandate and OpenAIRE system will be disseminated across Europe and beyond.

Slovak Participant’s Role in Project: OpenAIRE established a networking infrastructure, supporting structures and tools, that enable article deposition to be carried out as easily and efficiently as possible, thereby ensuring that a critical mass of articles will be deposited. For this purpose, the project will deliver a European Helpdesk System, which will consist of a European Centre and national Open Access liaison offices in all but one EU member states, and one associated state (Norway). The European Helpdesk System will be accessible online, through the envisaged portal “OpenAIRE.eu”, which will also provide access to the FP7 and ERC research articles. From this portal, links will go out to national Open Access support pages, such as “open-access.net” (Germany), “rcaap.pt” (Portugal), “recolecta.net” (Spain), etc. The portal will also link to the European Commission “Participants Portal”, CORDIS, and other relevant trans-national Open Access initiatives and organisations, such as SPARC Europe and learned societies.

research library that also serves the general public. The name *University Library* remains, as it speaks of its historical purpose, funding and user background. Over the years, the library has transformed from a classical library to a modern research library and multifunctional cultural centre.

SK Participant Project Cost: EUR 27 673

SK Participant EC Financial Contribution: EUR 19 416

Project Outcomes planned/real: OpenAIREplus (Open Access Infrastructure for Research in Europe) is a 30 month project funded under the Seventh Framework Programme (FP7) of the European Commission. It expands on the OpenAIRE project, moving beyond the realm of FP7, to include the wider Open Access repository infrastructure built by the DRIVER projects, and extends to accredited data repositories.

Its main objective is to facilitate the cross-linking of research publications to associated data and funding schemes, contributing to the Open Linked Data initiatives. Exploiting the existing infrastructure, it will be possible to link from a scientific publication in the OpenAIRE / DRIVER systems to further information, such as a dataset or grant information, essentially creating a richer, value added publication, i. e., an „enhanced publication“.

With the collaboration of three scientific domain communities, EBI for molecular biology data, DANS for social science and BADC for climate data, innovative underlying technical structures will be deployed, to support the management of and inter-linking between associated scientific data. Metadata from these Open Access datasets will be harvested, enriched and stored, as is currently done for publications. End user services for enhanced publication visualization, creation and curation will be offered through the portal.

Slovak Participant's Role in Project: To keep abreast the data initiatives in our region. To look out for data repositories, data policies and research data related activities. Updating our country profile on the portal to include data initiatives. Keeping an eye on data practices within our own institution, for example how researchers manage their own research data. Collecting information/guidance documents of funding at national level. Keeping on pushing OpenAIRE compliance with repositories. Updating OpenAIRE websites.

PESI

Project ID: 223806

Project Title: A Pan-European Species-directories Infrastructure

Project website: <http://www.eu-nomen.eu/pesi/>

Project Start Date: 2008-05-01

Project End Date: 2011-04-30

Project Total Cost: EUR 4 057 628

Project EC Financial Contribution: EUR 2 640 000

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AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS - SPAIN

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ZOOLOGICAL INSTITUTE, RUSSIAN ACADEMY OF SCIENCES - RUSSIA

SOCIETY FOR THE MANAGEMENT OF ELECTRONIC BIODIVERSITY DATA LIMITED - ÉIRE/IRELAND

INTERNATIONAL TRUST FOR ZOOLOGICAL NOMENCLATURE - UNITED KINGDOM

TRAKYA UNIVERSITESI - TURKEY

MUSEUM NATIONAL D'HISTOIRE NATURELLE - FRANCE

NATURHISTORISKA RIKSMUSEET - SWEDEN

STICHTING NEDERLANDS CENTRUM VOOR BIODIVERSITEIT NATURALIS - NETHERLANDS

SWISS SYSTEMATICS SOCIETY - SWITZERLAND

ILIA STATE UNIVERSITY*ILIAUNI - GEORGIA

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ACADEMY OF SCIENCES- SLOVAKIA

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA- SLOVAKIA

Project Description and Objectives: PESI defines and coordinates strategies to enhance the quality and reliability of European biodiversity information by integrating the infrastructural components of four major community networks on taxonomic indexing into a joint work programme. This will result in functional knowledge networks of taxonomic experts and regional focal points, which will collaborate on the establishment of standardised and authoritative taxonomic (meta-) data. In addition PESI will coordinate the integration and synchronisation of the European taxonomic information systems into a joint e-infrastructure and the set up of a common user-interface disseminating the pan-European checklists and associated user-services results.

The organisation of national and regional focal point networks as projected not only assures the efficient access to local expertise, but is also important for the synergistic promotion of taxonomic standards throughout Europe, for instance to liaison with national governmental bodies on the implementation of European biodiversity legislations. In addition PESI will start with the geographic expansion of the European expertise networks to eventually cover the entire Palaearctic biogeographic region.

PESI supports international efforts on the development of a 'Global Names Architecture' by building a common intelligent name-matching device in consultation with the principal initiatives (GBIF, TDWG, EoL, SpeciesBase). PESI contributes the development of a unified cross-reference system and provides of high quality taxonomic standards. PESI will further involve the Europe-based nomenclatural services and link the planned joint European taxonomic e-infrastructure middle-layer to the global e-gateway.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 64 000

SK Participant EC Financial Contribution: EUR 42 800

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 2 220

SK Participant EC Financial Contribution: EUR 1 979

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

PIREDEU

Project ID: 211810

Project Title: Providing an Infrastructure for Research on Electoral Democracy in the European Union

Project website: <http://www.piredeu.eu/>

Project Start Date: 2008-02-01

Project End Date: 2011-01-31

Project Total Cost: EUR 3 136 000

Project EC Financial Contribution: EUR 2 400 000

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THE UNIVERSITY OF EXETER - UNITED KINGDOM

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GESIS - LEIBNIZ INSTITUT FÜR SOZIALWISSENSCHAFTEN E.V. - GERMANY

SZKOŁA WYŻSZA PSYCHOLOGII SPOŁECZNEJ - POLAND

KOZEP-EUROPAI EGYETEM - HUNGARY

INSTITUT PRE VEREJNE OTAZKY, INSTITUTE FOR PUBLIC AFFAIRS- SLOVAKIA

Project Description: This three-year design study will assess the feasibility of providing an infrastructure for research into citizenship, political participation, and electoral democracy in the European Union (EU). Such an infrastructure would endow the social science community with the most essential information required for a recurrent audit of the most important aspects of the electoral process in the European Union. Since elections are crucial instruments of popular control, elite accountability, and popular representation, auditing these processes is seen as good practice in a number of democracies.

Project Objectives: Such audits empirically assess the nature of electoral processes and detect challenges and threats to the quality of these processes. The infrastructure project that we propose to design focuses on data which, if not collected at the time of an election, will either be lost or will be recorded in a manner incompatible with the way in which other relevant data have been recorded, making the complete picture unavailable for future research. At the EU's supra-national level, democratic rules and procedures are not yet well established and the institutions of multi-level governance are repeatedly renegotiated and adapted. Auditing the quality of the electoral process at the EU-level is therefore essential.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

PRE-XFEL

Project ID: 211604

Project Title: Preparatory activities for the implementation of the European X-ray Free-Electron Laser Facility

Project website: <http://www.desy.de/>

Project Start Date: 2007-07-01

Project End Date: 2011-06-30

Project Total Cost: EUR 7 318 600

Project EC Financial Contribution: EUR 5 000 000

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SCIENCE AND TECHNOLOGY FACILITIES COUNCIL - UNITED KINGDOM

BUNDESMINISTERIUM FÜR BILDUNG UND FORSCHUNG - GERMANY

KØBENHAVNS UNIVERSITET - DENMARK

VETENSKAPSRÅDET - SWEDISH RESEARCH COUNCIL - SWEDEN

STOCKHOLMS UNIVERSITET - SWEDEN

PAUL SCHERRER INSTITUT - SWITZERLAND

CONSIGLIO NAZIONALE DELLE RICERCHE - ITALY

INSTYTUT PROBLEMÓW JADROWYCH IM. ANDRZEJA SOLTANA - ANDRZEJ SOLTAN

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INSTITUT TEORETICHESKOI I EKSPERIMENTALNOI FIZIKI ITEP - RUSSIA

MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR ET DE LA RECHERCHE - FRANCE

ISTITUTO NAZIONALE DI FISICA NUCLEARE - ITALY

SZILÁRDTESTFIZIKAI ÉS OPTIKAI KUTATÓINTÉZET - MAGYAR TUDOMÁNYOS

AKADEMIA - HUNGARY

MINISTERIO DE CIENCIA E INNOVACION - SPAIN

SINCROTRONE TRIESTE SCPA - ITALY

CONSORCIO PARA LA CONSTRUCCION, EQUIPAMIENTO Y EXPLOTACION DEL

LABORATORIO DE LUZ DE SINCROTRON - SPAIN

UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA- SLOVAKIA

UNIVERZITA PAVLA JOZEFA ŠAFÁRIKA V KOŠICIACH, PAVOL JOZEF ŠAFÁRIK

UNIVERSITY IN KOŠICE- SLOVAKIA

Project Description: Pre-XFEL is an EU funded project aiming to support the foundation of the European XFEL, the new research infrastructure in Europe.

Project Objectives: The objectives of the Preparatory Phase of the European X-ray Free-Electron Laser Facility are: a) to provide the technical, legal and financial documents, which are necessary for the foundation of this new research infrastructure in Europe b) to advance as far as possible in the specification, research and development, prototyping and industrialization of buildings, technical infrastructure, technical components, in order to start the construction phase with maximum probability to conclude it successfully on time and budget c) to mobilize the potential users community, which is multidisciplinary and possibly

composed by scientists experienced with synchrotron light sources, with ultrafast lasers, and ultrafast electron diffraction. As far as the objectives a) are concerned, the Technical Design Report is completed, and nearly final drafts of the Convention and of the Articles of Association are available. Still missing are the basic contractual framework to regulate in-kind contributions from participating countries, and the framework contract regulating the relationship between the new international facility and the host laboratory (DESY), which are among the deliverables of the present proposal (Work Packages 4 and 5). As far as the objectives b) are concerned, the work is very advanced for accelerator and infrastructure design, where DESY personnel is engaged; for instrumentation and experiments development, the necessary personnel is lacking. One goal of this proposal is the immediate recruitment of international staff, supported by the EC funding, in order to advance in this domain, and to impress a strong international flavour to the enterprise, which has been so far mostly carried out as a DESY activity (Work Package 3). As far as the objectives listed under c) are concerned, with support from this proposal, we plan to hold 9 workshops over the next 4 years, plus three annual User meetings (Work Package 2).

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: Pre-XFEL was an EU funded project, aiming to support the foundation of the European XFEL, the new research infrastructure in Europe. Its main purpose was to provide all technical, legal and financial documents necessary for the foundation of the European XFEL company. One of the main activities under this project was therefore the immediate recruitment of international staff, mostly in the relevant scientific and technical fields, supported by the EC funding. In addition, Pre-XFEL served as a platform to mobilize and stimulate the potential user community. Research at the European XFEL will cover a broad range of natural sciences. To give the users an adequate knowledge about the possibilities and requirements at the European XFEL, a course of workshops and user meetings was organised. As a third objective, Pre-XFEL facilitated the specification (and where appropriate, research and development, prototyping and industrialization) of buildings, technical infrastructure, technical components.

Slovak Participant's Role in Project: Mobilization and stimulation of the potential user community.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

QNANO

Project ID: 262163

Project Title: A pan-European infrastructure for quality in nanomaterial safety testing

Project website: <http://www.qualitynano.eu/>

Project Start Date: 2011-02-01

Project End Date: 2015-01-31

Project Total Cost: EUR 9 127 286.47

Project EC Financial Contribution: EUR 7 000 000

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NORSK INSTITUTT FOR LUFTFORSKNING - NORWAY

UPPSALA UNIVERSITET - SWEDEN

UNIVERSITY OF LEEDS - UNITED KINGDOM

LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN - GERMANY

HERIOT-WATT UNIVERSITY - UNITED KINGDOM

TEL AVIV UNIVERSITY - ISRAEL

NATURAL HISTORY MUSEUM - UNITED KINGDOM

TYÖTERVEYSLAITOS - SUOMI/FINLAND

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FUNDACIÓ PRIVADA INSTITUT CATALÀ DE NANOTECNOLOGIA - SPAIN

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SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, THE SLOVAK MEDICAL UNIVERSITY IN BRATISLAVA - SLOVAKIA

Project Description: QNANO is a four year project which integrates 28 top European analytical & experimental facilities in nanotechnology, medicine and natural sciences, with the goal of developing and implementing best practice and quality in all aspects of nanosafety assessment.

Project Objectives: There are immediate priorities, for the doubts that serious damage to confidence in nanotechnology, unless averted, could result in missed opportunities to benefit society for a generation, or more. QNano will materially affect the outcome at this pivotal moment of nanotechnology implementation. The overall vision of QNano is the creation of a 'neutral' scientific & technical space, in which all stakeholder groups can engage, develop, and share scientific best practice in the field. Initially, it will harness resources from across Europe, and develop efficient, transparent and effective processes. Thereby, it will enable provision of services to its Users, and the broader community, all in the context of a best-practice ethos. This will encourage evidence-based dialogue to prosper between all stakeholders. However, QNano will also pro-actively seek to drive, develop and promote the highest quality research and practices via its JRA, NA and TA functions, with a global perspective and mode of implementation.

QNano will also look to the future, beyond the current issues, and promote the growth and development of the science of nano-scale interactions with living organisms. By working with new and emerging scientific research communities from medicine, biology, energy, materials and others, it will seek to forge new directions leading to new (safe, responsible, economically viable) technologies, for the benefit of the European society.

Profile of Slovak Participant/ -s: The Slovak Medical University has become a unique higher education institution within the framework of Slovak Universities, by adopting the requirements of the European Union for university level education in regulated professions, including general medicine, nursing, public health, health care management, rehabilitation and related health care subjects, and by providing post-secondary professional education in a whole variety of medical specializations

in the following areas of science and research:

a) Environmental health, which includes the research of the impacts of chemical, physical, biological and social factors on individual health and population health. Several departments with many years of experience are focused on these issues, also included in several international projects. An Environmental Health Centre of Excellence (an ASFEU project) has been built at the SMU, which covers several departments of the University faculties. This Centre of Excellence provides, apart from personnel conditions, an excellent infrastructure. Moreover, other excellent departments were completed within the Norwegian Financial Mechanism (such as the Experimental menagerie or the Centre of Medic. Metallomics), and these considerably increase the attractiveness and the possibilities of involvement in top international (7 RPEU) research, basic as well as applied.

The most important issues in these areas are:

- Microbiology, mycology, virology – especially enteric viruses and viral hepatitis, AIDS, slow virus infections, prion diseases, fungi.

- Radiation burden,

- Chemical pollution (metals, PCBs, dioxins),

- Nutrition, focused on positive and negative impacts of selected foods, dietary supplements and different types of nutrition of different subgroups of the population (patients, vegetarians, athletes and others).

b) Clinical research focused on:

- degenerative diseases and aging – associated diseases such as atherosclerosis, osteoporosis and others, concentrated on genetic and environmental factors of the establishment and their development (diabetes, hypertension, obesity, smoking, physical inactivity, etc.), and the possibilities of influencing them (non-pharmacological methods, new drug therapy, stem cell treatments, alternative therapeutic approaches),

- transplantation of tissue, organs, cells, focusing on:

- research of the causes of their rejection,

- new therapeutic approaches in the stem cell treatments (especially the treatment of vascular diseases) transmissible diseases, concentrated on the research of the pathogenesis and the possibilities of prevention and cure (AIDS, prion diseases, enteroviral infections, hepatitis, Chlamydia infection and others).

- diseases associated with reproduction, motherhood and childhood, use of information technologies in the simulation/modelling of major diseases in various fields of medicine, especially internal medicine, cardiology, neurology and surgery,

- c) Health and medical aspects of research and development of nanoparticles, particularly in terms of toxicity and safety,
- d) Development of prognostic models suitable for assessing the population health impacts of planned political, economic, social and other interventions – prognostication,
- e) Research related to the use of a linear accelerator, especially in the application of scientific results into practice (applied research),

- f) Others, according to the current demands of the society, the possibilities and capacities available at SZU in Bratislava. The evidence of a successful international cooperation in scientific research is the involvement of several departments of SMU in current projects (7thRPEU, ERINHA, SYSTEQ, OBELIX, DENAMIC, NANOTEST, NANOIMPACT, Q-NANO, PRIORITY), as well as the activities of SMU in Bratislava, as a founding member of the international scientific consortium 'Regional Cooperation for Health, Science and Technology Association.'

SK Participant Project Cost: EUR 466 923.56

SK Participant EC Financial Contribution: EUR 322 954.36

Project Outcomes planned/real: QualityNano is a Research Infrastructure for nanosafety assessment. QualityNano's core aim is the creation of a 'neutral' scientific & technical space, in which all stakeholder groups can engage, develop, and share scientific best practice in the field. Initially, it will harness resources from across Europe and develop efficient, transparent and effective processes. Thereby, it will enable provision of services to its users and the broader community, all in the context of a best-practice ethos. This will encourage evidence-based dialogue to prosper between all stakeholders. However, QualityNano will also pro-actively seek to drive, develop and promote the highest quality research and practices via its Joint Research Activities (JRA), Networking Activities (NA) and provision of Transnational Access (TA) functions, with a global perspective and mode of implementation.

Slovak Participant's Role in Project: "SMU will be to act as a mentor to TA visitors (D-TA), to participate in the GLP training activities via the Knowledge Hub (NA3). SMU are holding a portion of the budget for procurement of nanomaterials for the Nanomaterials Hub."

SOLARNET

Project ID: 312495
 Project Title: High-Resolution Solar Physics Network
 Project website: <http://www.solarnet-east.eu/>
 Project Start Date: 2013-01-04
 Project End Date: 2017-31-03
 Project Total Cost: EUR 8 190 502
 Project EC Financial Contribution: EUR 6 000 000
 Slovak participant Name: ASTRONOMICKÝ ÚSTAV SLOVENSKEJ AKADEMIE VIED,
 Astronomical Institute of the Slovak Academy of Sciences
 Slovak participant address: Tatranská Lomnica 059 60
 Contact person email/ phone: Dr. Ales Kucera, akucera@astro.sk, +421 5 27 879 157

Partners of the Consortium:

INSTITUTO DE ASTROFISICA DE CANARIAS - SPAIN
 ISTITUTO NAZIONALE DI ASTROFISICA - ITALY
 MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V. - GERMANY
 UNIVERSITETET I OSLO - NORWAY
 FUNDACION TECNALIA RESEARCH & INNOVATION - SPAIN
 STOCKHOLMS UNIVERSITET - SWEDEN
 CENTRE INTERNACIONAL DE METODES NUMERICIS EN ENGINYERIA - SPAIN
 UNIWERSYTET WROCLAWSKI - POLAND
 PSENSOR GMBH - GERMANY
 ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY - UNITED STATES
 UNIVERSITAET GRAZ - AUSTRIA
 UNIVERSITE PAUL SABATIER TOULOUSE III - FRANCE
 SMITHSONIAN INSTITUTION - UNITED STATES
 AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS - SPAIN
 THE QUEEN'S UNIVERSITY OF BELFAST - UNITED KINGDOM
 LEIBNIZ-INSTITUT FUR ASTROPHYSIK POTSDAM (AIP) - GERMANY
 UNIVERSITA DELLA CALABRIA - ITALY
 CONSIGLIO NAZIONALE DELLE RICERCHE - ITALY
 S.R.S. ENGINEERING DESIGN S.R.L. - ITALY
 THE UNIVERSITY OF BIRMINGHAM - UNITED KINGDOM
 SVEUCILISTE U ZAGREBU - GEODETSKI FAKULTET - CROATIA
 WINLIGHT OPTICS - FRANCE
 UNIVERSITY COLLEGE LONDON - UNITED KINGDOM
 KIEPENHEUER-INSTITUT FUER SONNENPHYSIK - GERMANY
 KONINKLIJKE STERRENWACHT VAN BELGIE - BELGIUM
 ASTRONOMICKÝ ÚSTAV AVCR VVI - CZECH REPUBLIC
 CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE
 WAGENINGEN UNIVERSITY - NETHERLANDS
 FONDAZIONE ISTITUTO RICERCHE SOLARI LOCARNO - SWITZERLAND
 HANKOM ENGINEERING - NETHERLANDS
 UNIVERSITA DEGLI STUDI DI ROMA TOR VERGATA - ITALY
 ASTRONOMICKÝ ÚSTAV SLOVENSKEJ AKADEMIE VIED, ASTRONOMICAL INSTITUTE OF THE SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: SOLARNET brings together and integrates the major European research infrastructures in the field of high-resolution solar physics, in order to promote their coordinated use and development. This network involves all pertinent European research institutions, infrastructures, and data repositories. Together, these represent first-class facilities. The additional participation by private companies and non-European research institutions maximizes the impact on the world-wide scale.

Networking activities, access to first-class infrastructures and joint research and development activities will be covered under SOLARNET to improve, in quantity and quality, the service provided by this European community.

In summary, SOLARNET involves:

More than 500 solar physics researchers.

32 partners from 16 countries: 24 EU research institutions; 6 EU private companies; 2 USA research institutions.

SOLARNET Project achievements will be of paramount relevance to contribute towards the realisation of the 4m European Solar Telescope (EST).

Project Objectives: This project aims at integrating the major European infrastructures in the field of high-resolution solar physics. The following actions will be taken: (i) realise Trans-national Access to external European users; (ii) enhance and spread data acquisition and processing expertise to the Europe-wide community; (iii) increase the impact of high-resolution data by offering science-ready data and facilitating their retrieval and usage; (iv) encourage combination of space and ground-based data by providing unified access to pertinent data repositories; (v) foster synergies between different research communities by organising meetings where each presents state-of-the-art methodologies; (vi) train a new generation of solar researchers through setting up schools and an ambitious mobility programme; (vii) develop prototypes for new-generation post-focus instruments; (viii) study local and non-local atmospheric turbulence, their impact on image quality, and ways to negate their effects; (ix) improve the performance of existing telescopes; (x) improve designs of future large European ground-and space-based solar telescopes; (xi) lay foundations for combined use of facilities around the world and in space; (xii) reinforce partnership with industry to promote technology transfer through existing networks; and (xiii) dissemination activities towards society.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 106 304

SK Participant EC Financial Contribution: EUR 59 856

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

4. Specific programme
CAPACITIES

*4.2 Research for the benefit
of SMEs - (SME)*



AIR-SEAL

Project ID: 231171

Project Title: An Innovative RFID Security SEAL for Aircraft Galley Trolleys

Project website: <http://www.maplefleetservices.co.uk/>

<http://airseal.pera.com/>

Project Start Date: 2009-08-01

Project End Date: 2011-11-30

Project Total Cost: EUR 1 309 521

Project EC Financial Contribution: EUR 999 480.7

Slovak participant Name: Ardaco, a.s.

Slovak participant address: Polianky 5, 841 01 Bratislava

Contact person email/ phone: Ardaco, a.s., info@ardaco.com, +421 (2) 3221 2311

Partners of the Consortium:

MAPLE FLEET SERVICES LTD - UNITED KINGDOM

INSTITUTO PEDRO NUNES, ASSOCIACAO PARA A INOVACAO E DESENVOLVIMENTO EM CIENCIA E TECNOLOGIA - PORTUGAL

COGENT TECHNOLOGY LTD - UNITED KINGDOM

IACOBUCCI S.P.A. - ITALY

TRANSGUARD GROUP LLC - UNITED ARAB EMIRATES

THE UK INTELLIGENT SYSTEMS RESEARCH INSTITUTE LIMITED - UNITED KINGDOM

Ardaco, a.s. - SLOVAKIA

Project Description: AIR-SEAL is a two-year project of the 'Research for the benefit of SMEs' theme which received funding under the European Commission (EC)'s Seventh Framework Programme (FP7). This summary highlights the project background and objectives for the second reporting period and consortium participants.



High-level scope

AIR-SEAL is an innovative security seal for the aerospace industry. The AIR-SEAL system will be used during the storage and transport of inflight service trollies whilst outside secure areas and will only allow access to airport security and airline personnel with the appropriate electronic security device.

This retrofitted electronic security system monitors the sealing and opening of food and duty free trollies. Access is controlled and recorded centrally and can be set to be location dependent. Any tampering with the trolley will be detected.

The key characteristics of the project are:

- (a) to record all actions on the lock and location of the lock;
- (b) to provide secure access via a centrally controlled user identification (ID);
- (c) to display the current security status on the lock itself;
- (d) to detect and record any opening of the trolley;
- (e) to offer asset tracking.

Objectives:

The AIR-SEAL project proposes the development of a second generation RFID security seal, capable of monitoring the integrity of an aircraft galley trolley or transportation vehicle. Since the September 11th terrorism attacks in the United States, catering services through-out the world have been seen as the weakest link in the aviation industries service supply chain. Existing sealing technologies are time consuming, ineffective and require a complex paper trail. A reusable and retro-fit, electronic sealing device is therefore required with an ultra-low profile. This new technology will enable the automatic sealing and inspections of galley trollies, while improving their security by utilising a digital, anti-tamper volumetric sensor. With an initial market value of 120million retrofitting the technology and an additional 24million per year in new trollies, this market has the potential of significant economic returns. Beyond the catering industry this technology will enable international logistics services and all of the SMEs operating within a secure supply chain to seal their vehicles and reduce their operating costs.

Supported by a location dependant (Galileo) tag interrogator and central ICT database, a pair of smart tags will be used to seal and monitor unauthorised access to a trolley, based on a received signal strength indication technology. Upon an authorised activation, the novel security seal will transmit its location and a randomly generated locking number to a central database, using a mobile GPRS communication link in the tag interrogator. By cross-referencing the tag and database values using a standard RFID reader, a security official may ensure that a seal has not been tampered with or replaced. A multi-lingual and bi-colour passive RF display will be installed onto each door of the trolley, for a visual indication of the seal status. Alternatively a RFID reader may be used for an automatic, long range inspection.

Profile of Slovak Participant/ -s: Ardaco, a.s. is a technological SME based in Bratislava, Slovakia. Ardaco puts a strong emphasis on innovations and own technologies development.

Its mission is to bring better security to free exchange of information. Ardaco has been developing unique solutions and services in the area of communication and secure processing of information, personal identity and privacy protection for over 15 years. In recent years, Ardaco has been actively involved in European and Slovak technological and research cooperation structures, such as: EPoSS ETP – former member of the Steering Board and ARTEMISIA JTI – founding member, former member of Steering board. Previous experience relevant to the project tasks:

Ardaco has been focused on information and communication security since its establishment. Most of the products have undergone a lot of independent security audits and have been certified by National Security Authority of the Slovak Republic. The SecureCall – a GSM encryption product got certified up to the NATO Confidential level. During last three years, Ardaco has been active in international cooperation programmes of the EU. At the time being, Ardaco is involved in seven projects funded from FP7 and CIP programme. The most significant one is SECRICOM - Seamless Communication for Crisis Management, in which Ardaco is the technical coordinator and integration leader. Ardaco personnel have extensive experience in projects management in international environment, both in commercial and FP7 fields.

SK Participant Project Cost: EUR 232 677

SK Participant EC Financial Contribution: EUR 176 832.6

Project Outcomes planned/real: The aim of this research and development project was to develop a second generation RFID security seal, capable of monitoring the integrity of an aircraft galley trolley or transportation vehicle. The R&D work is performed by academia, while SME are consultants of their work. It seeks to enable the automatic sealing and inspections of galley trollies, while improving their security by utilising a digital, anti-tamper volumetric sensor.

Slovak Participant's Role in Project: The Ardaco role was to consult the design of the communication and security protocols for Air Seal, and to validate the new protocols and implement an operational security database on existing secure ICT servers. During field trials, Ardaco validated the databases performance.

CLAMPIT

Project ID: 315208

Project Title: Intelligent Welding Clamp Design Software Using Computer-aided Optimization for SMEs to Achieve High Precision Assembly

Project website: <http://clampit.eu/>

Project Start Date: 2012-09-01

Project End Date: 2014-08-31

Project Total Cost: EUR 1 509 159.27

Project EC Financial Contribution: EUR 1 147 000

SLOVAK PARTICIPANT 1

Slovak participant Name: FIRST WELDING COMPANY, Inc. PRVA ZVARACKA a. s.

Slovak participant address: Kopčianska 14, 851 01 Bratislava

Contact person email/ phone: Ing. František Kolenič, PhD., E-mail: kolenic.frantisek@pzvar.sk, Tel: +421268262103, Mrs. Jana Rychtarikova, rychtarikova.jana@pzvar.sk, +421 2 68 262 104

SLOVAK PARTICIPANT 2

Slovak participant Name: ROBOTEC s.r.o.

Slovak participant address: Hlavná 3, 038 52 Sučany

Contact person email/ phone: Peter Kovačič, kovacic@robotec.sk, 0903109572, Mr. Peter Kosik, basket@robotec.sk, +421 4 34 003 480

Partners of the Consortium:

Coordinator: ATEKNEA SOLUTIONS HUNGARY KFT - HUNGARY

Participants: PLTS IPARI MERNOKI IRODA KERESKEDELMI ES SZOLGATATO KFT - HUNGARY

BOLUDA DIVISION INDUSTRIAL SL - SPAIN

BARIDA MAKINA SANAYI TICARET LIMITED SIRKETI - TURKEY

NEMETSCHKE OOD - BULGARIA

TWI LIMITED - UNITED KINGDOM

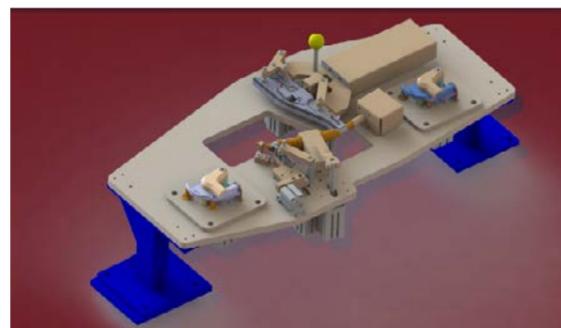
INTERN KERESKEDELMI ES SZOLGALTATO KFT- HUNGARY

FIRST WELDING COMPANY, INC. PRVA ZVARACKA A. S. - SLOVAKIA

ROBOTEC s.r.o. - SLOVAKIA

Project Description: The CLAMPIT project aims to develop a high-end decision supporting system that would help metalworking SMEs to increase the efficiency of welding works, by the automation of clamping design calculations. The CLAMPIT software will be able to give an optimum process sequence, optimal clamping points and forces, and it will advise the users on the application of LSND (Low-Stress No Distortion) technology.

Project Objectives: the CLAMPIT software will interpret the CAD model of the assembly to be welded, and to identify the welds. According to the specific features of the assembly, the software determines the points where the components can be clamped, including the information about the size and orientation of the required forces. In the case that the user has a universal welding table with adjustable clamps, the software selects suitable types and calculates its location on the clamping table's x-y grid. In order to reduce buckling distortion typical for thin-walled structures, CLAMPIT adapts the LSND techniques. An optional software package enabling the LSND module will help the users to minimize the residual stress caused by the local non-uniform heating produced during the welding process, by applying heating and cooling units to produce desired temperature distribution. The output of the software will be a plan for positioning clamps and LSND units in the 3D CAD environment.



SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: PRVÁ ZVÁRAČSKÁ, a. s. (PZVAR) is a private research, development and production company dealing with welding. The company employs about 50 researchers in research laboratories of welding technologies and material research. Core activities include research and development of welding processes and material surfacing using laser, electron beam and arc. The company provides services and expertise in welding industry. The main customers are the automotive industry, mechanical engineering, power engineering. The company closely cooperates in scientific and technical matters with technical universities and several important research institutions at home and abroad.

SK Participant Project Cost: EUR 42 377

SK Participant EC Financial Contribution: EUR 42 360

Project Outcomes planned/real: The project aims to develop a high-end decision supporting system that helps metalworking SMEs carrying out welding work to increase their efficiency by the automation of clamping design calculations. The developed software system will be able to give an optimum process sequence, optimal clamping points and forces, and it will calculate the input data for the innovative low distortion no stress technology. Clamping (or fixture) is an initial step in the welding processes. Assemblies for welding have to be placed in a clamp for both manual and automatic welding. The new software will speed up the methodology of the welding process, as the whole clamping design can be done quickly and accurately, saving time. It will use the CAD file recognition and case base reasoning, to supply the knowledge and experience which would otherwise take years of training. The CLAMPIT software will not replace but enhance the job of welding experts, giving maximum benefits and reducing the possibility of error.

Slovak Participant's Role in Project: PZVAR as one of RTD performers that is responsible for connecting the scientific results with the user side, by applying the results on valid industrial environment. PZVAR, as the leader of the work package Database development, is responsible for collection and management of all information related with welding technologies and company resources, including design and implementation of relational database, where all the information will be stored in a searchable, extensible and structured way. It will coordinate in close collaboration with the welding expert SMEs and with the software designers the development of a database that will contain all the relevant information needed (and not more) for the technological management tool to work efficiently.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: ROBOTEC s.r.o. is a system integrator of components for industrial robotic and automation processes. It provides mainly projection, implementation, programming and servicing robotic cells. Part of the company's activities is also an application development of innovative robotic technologies, such as welding, 3D cutting (cutting of materials with offline programming), grinding, handling general, palletising, and operation of CNC machines or robotic production lines. ROBOTEC focuses on the Slovak and the Czech market in all aspects of realization of robotic cells for arc welding, delivered as a complex workstation with fixtures, complete technology and welding procedures. ROBOTEC's design engineering team is able to construct complete lines of components for robotic welding, such as sliders, positioners, rotating tables and fixtures.

SK Participant Project Cost: EUR 272 946

SK Participant EC Financial Contribution: EUR 196 590

Project Outcomes planned/real: The primary aims of this project are to develop a high-end decision supporting system of metalwork for SMEs, carrying out welding work in order to increase manufacturing efficiency by automatic clamping design calculations. The developed software system will be able to give an optimum process sequence, optimal clamping points and forces, and it will calculate the input data for the innovative low distortion no stress technology. Clamping (or fixture) is an initial step in welding processes. Assemblies for welding have to be placed in a clamp for both manual and automatic welding. The new software will speed up the methodology of the welding process, as the whole clamping design can be done more quickly and accurately. It will use the CAD file recognition and case base reasoning, to supply the knowledge and experience which otherwise would take many years of training. The CLAMPIT software will not replace, but enhance the welding experts' job to gain maximum benefits and avoid or reduce errors.

Slovak Participant's Role in Project: ROBOTEC has participated in the project as a member of the SME consortium, which is the end-user and the owner of the project results. As an expert in robotic welding technologies and professional fixtures designs, it has been involved in defining detailed technical specifications and pre-requisites within market research and system specification. It has also participated in the prototype designing and testing of the main project outcomes, and provided expertise during the development of the decision supporting system. ROBOTEC has a leading role in exploitation activities of the project outcomes within the SME consortium as an "Opponent Manager".

CLEANFRUIT

Project ID: 222286

Project Title: High-reliability, non-chemical disinfection system of fruits and vegetables

Project website: <http://mfkk.eu/>

<http://cleanfruit.eu/home>

Project Start Date: 2008-10-01

Project End Date: 2011-01-31

Project Total Cost: EUR 1 356 898

Project EC Financial Contribution: EUR 1 000 296

Slovak participant Name: CENTRUM ROZVOJA ZAHRADNICTVA, SPOL. S.R.O.

Slovak participant address: Hornonitrianska cesta 1282/3, 971 01 Prievidza

Contact person email/ phone: Dr. Ladislav Pecho, +421 905 342 690, crz@stonline.sk

Partners of the Consortium:

MFKK FELTALLOI ES KUTATO KOZPONT SZOLGALTATO KFT - HUNGARY

ITC SRL - ROMANIA

HAVEVRA LEMICHKAR UPITUACH KIRUR PEROT K S LTD - ISRAEL

PURES DARZKOPIBAS IZMEGINAJUMU STAC IJA AKCIJU SABIEDRIBA - LATVIA

OSV SRL - ITALY

CENTRE DE RECERCA I INNOVACIO DE CATALUNYA S.A. - SPAIN

TTI NORTE, S.L. - SPAIN

I2LRESEARCH LTD - UNITED KINGDOM

CHADWICK MUSHROOM FARM LTD - MALTA

CENTRUM ROZVOJA ZAHRADNICTVA, SPOL. S.R.O. - SLOVAKIA

Project Description: The proposed CLEANFRUIT system will consist of a reliable, non-invasive, rapid on-line disinfection system using Radiofrequency (RF) technology that is economical and effective for treatment of a large range of produce.

Project Objectives: The commercial objective of CLEANFRUIT is to increase SME competitiveness by providing an effective alternative for pesticides which can increase storage to market time, allow consortium SMEs to more easily comply with EU legislation on pesticide use and meet consumer demands for healthier produce.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 195 054

SK Participant EC Financial Contribution: EUR 136 340

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

CONDIMON

Project ID: 606080

Project Title: Development of an in-line multi-parameter oil condition monitoring system including a novel oil corrosion sensor for bio-gas operated power generator engines

Project website: <http://condimon.eu/>

Project Start Date: 2013-11-01

Project End Date: 2015-10-31

Project Total Cost: EUR 1 217 446

Project EC Financial Contribution: EUR 908 000

Slovak participant Name: CMMS S.R.O.

Slovak participant address: Komenského 116, 943 01 Štúrovo

Contact person email/ phone: Dr. Ondrej Valent, +420 6 02 304 878, cmms@cmms.cz

Partners of the Consortium:

ATEKNEA SOLUTIONS HUNGARY LIMITED LIABILITY COMPANY- HUNGARY

BIOMASSE KRAFTWERK GÜSSING GMBH & CO KG- AUSTRIA

MAZZY LTD.- LATVIA

RYTEC GMBH FRANKFURT AM MAIN- GERMANY

AC2T RESEARCH GMBH- AUSTRIA

CMMS S.R.O.- SLOVAKIA

Project Description: Bioenergy that currently covers more than 7% of the final energy demand in Europe will play a key role in achieving the mandatory EU target of 20% renewable energy in 2020 set by the Renewables Directive. The biogas sector has seen a rapid development in recent years and continues to grow. Biomass coming from biological material such as manure, organic waste, trees and plants is one of the largest and most important renewable energy options at present.

While the utilisation of small and medium scale biogas plants have great potentials as alternative energy sources process optimisation such as cost-effective maintenance can largely increase their profitability. For example biogas operations often suffer from high costs associated with quality degradation of oil that can attack essential engine parts. As oil analysis can give a reliable overview of the current condition of the engine it can be considered as an essential aspect of optimally operating industrial engines. The aim of the Condimon project is to develop an innovative online condition monitoring system which would facilitate the economical and safe running of biogas operations.

Project Objectives:

Develop an integrated sensor system for in-line oil condition monitoring covering the most important oil condition parameters including corrosion (acidity) for industrial power generator engines or turbines;

Develop a novel sensor for the online measurement of corrosion effect as a direct indicator for the acidity of the engine oil which is a critical parameter in case of bio-fuel operated combustion engines;

Be able to ensure the protection of the machine by online monitoring, while allows the optimization of the oil change interval, leading to reduced maintenance costs in the long-term, especially in case of large oil fillings.

The partners have a clear and proven technological concept for the development of the novel corrosion (acidity) sensor as well as the cooperation with leading oil sensor producer enables an in-depth insight to current market needs. The research on the novel corrosion sensor has started already 8 years ago, reaching by now a technological level allowing the step towards a commercial product.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 258 080

SK Participant EC Financial Contribution: EUR 188 600

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

CURARE

Project ID: 222317

Project Title: Computer-aided laser surface treatment and combined nitriding of forging dies with the objective of a lifetime increase

Project website: <http://www.fraunhofer.de/>

Project Start Date: 2008-09-01

Project End Date: 2010-12-31

Project Total Cost: EUR 1 494 917.2

Project EC Financial Contribution: EUR 1 082 311

Slovak participant Name: KLF-ZVL MTK SPOL. S R.O.

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Partners of the Consortium:

FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V. - GERMANY

EDAETECH ENGENHARIA E TECNOLOGIA, S.A. - PORTUGAL

ISTITUTO PER LE RICERCHE DI TECNOLOGIA MECCANICA E PER L'AUTOMAZIONE S.P.A. - ISTITUTO R.T.M. S.P.A. - ITALY

RASCHE UMFORMTECHNIK GMBH & CO KG - GERMANY

DMF WERKZEUGBAU GMBH - GERMANY

FORJACO-ACO FORJADO LDA - PORTUGAL

INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU FIZICA LASERILOR PLASMEI SI RADIATIEI - ROMANIA

A. BENEVENUTA & C.S.P.A. - ITALY

KLF-ZVL MTK SPOL. S R.O. - SLOVAKIA

Project Description: The European forging industry dominated by SMEs is steadily forced to reduce production costs and increase production volumes as well as part quality. One opportunity to meet these challenges is the application of innovative surface treatments to increase the forging dies lifetime by 100-200% and thus to reduce the overall die costs by 30%. Therefore in close co-operation a consortium of two well established RTD-performers with specialised knowledge in surface treatment, three forging enterprises and four enterprises operating as job-shops from 5 different countries develop the "computer-aided laser surface treatment (laser alloying/dispersing) and combined nitriding of forging dies with the objective of a lifetime increase - CURARE".

Project Objectives: To enable a successful implementation of the project results in industrial application four objectives have to be achieved: - Design and linkage of an industrial applicable machining system for laser surface treatment - Development of geometrical flexible machining strategies for laser alloying/dispersing process - Benchmark of nitriding technologies, analysis of edge layer & design of quality control concept - Development of CAx-module and data base for laser treatment. Following the CURARE process chain for combined surface treatments is verified by the use of selected forging dies. The treated dies are applied under industrial conditions in the enterprises of the co-operating end-users. Both the machining system and the applied forging dies are assessed with respect to technical and economic aspects as well as their relevance for industrial implementation. Finally selected staff of the participating enterprises is qualified/trained by using instruction material which has been prepared before by the RTD-performers. The close and permanent co-operation with the European forging association EUROFORGE and their national member associations ensures a sustainable Europe-wide dissemination and use of the achievements even after the end of the project "CURARE".

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 203 094.6

SK Participant EC Financial Contribution: EUR 145 389

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

DURAWOOD

Project ID: 232296

Project Title: Development of a cost-effective, durable coating system with low fungicide content for wood surfaces using Plasma Discharge

Project website: N/A

Project Start Date: 2009-12-01

Project End Date: 2011-11-30

Project Total Cost: EUR 1 293 195

Project EC Financial Contribution: EUR 1 001 990

SLOVAK PARTICIPANT 1

Slovak participant Name: Ing. Jan Sestina SETA

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SLOVAK PARTICIPANT 2

Slovak participant Name: PAM-ak s.r.o.

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Contact person email/ phone: Zora Komžíková, +420 2 45 943 922, pam@pam.sk

SLOVAK PARTICIPANT 3

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

Slovak participant address: Vazovova 5, 812 43 Bratislava

Contact person email/ phone: Dr. Radovan Tino, +421 2 59 325 621, radovan.tino@stuba.sk

Partners of the Consortium:

INNOVACIO I RECERCA INDUSTRIAL I SOSTENIBLE SL - SPAIN

VEREIN ZUR FOERDERUNG DES TECHNOLOGIETRANSFERS AN DER HOCHSCHULE BREMERHAVEN E.V. - GERMANY

KARTAS KONTRPLAK SANAYI VE TICARET LIMITED SIRKETI - TURKEY

PLASMA-TECHNOLOGIC S.R.O. - CZECH REPUBLIC

SETAS KIMYA SANAYI AS - TURKEY

ARYECLA SL - SPAIN

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

ING. JAN SESTINA SETA- SLOVAKIA

PAM-AK S.R.O.- SLOVAKIA

Project Description: For wood to compete with other materials and be attractive to customers, a durability of treated wood facades of at least 5-8 years renovation-free should be guaranteed. New EC legislation (2004/42/EC) requires the replacement of solvent-borne coating systems with water-borne coatings for outdoor wood preservation purposes. Wooden facades treated with water-borne coatings are more susceptible to discolouring and damage by mould and blue stain fungi. Mould fungi grow mainly on the surface of the paint film and harm the appearance of wood surfaces via their pigmented spores.

Blue-stain fungi are capable of colonising the surface as well as the wood and wood-coating interface. They can penetrate the coating film enzymatically and mechanically, thereby damaging its protective functioning against the elements, leading to costly repair work after only a few years of service life. In order to sustain the use of wood in the face of growing competition from other materials, a need exists for cost-effective wood protection methods free from toxic preservatives, but which are capable of offering comparing durability. This project will develop a cost-effective, ecological, high performance wood coating system, offering low fungicide content. It is long known that the interaction of wood with water can lead to dimensional instability and accelerated bio, and weathering degradation.

A variety of techniques have been investigated to achieve water repellent characteristics of wood surfaces, from liquid reagents, to thermal and chemical applications. A very promising technique to hydrophobize wood surfaces is the use of electrical gas discharges (plasma).

Project Objectives: This project will build on past research in this area to arrive at a DURAWOOD system that meets market needs in terms of price, durability and environmental protection. The RTD results will contribute to the continued growth of the EU wood industry, especially in light of global competition and new material alternatives. In this context, the objective of this project centred on the development of a new industrial process (DURAWOOD) based on the application of plasma DCSBD to improve the coating adhesion of wood and therefore increase its durability, especially when using water borne coatings.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 165 973.6

SK Participant EC Financial Contribution: EUR 126 842

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 264 090.8

SK Participant EC Financial Contribution: EUR 200 671

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 3

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 19 968

SK Participant EC Financial Contribution: EUR 19 968

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EBEST

Project ID: 243554

Project Title: Empowering Business Ecosystems of Small Service Enterprises to Face the Economic Crisis

Project website: <http://www.mo.cna.it/>

Project Start Date: 2010-01-01

Project End Date: 2012-05-31

Project Total Cost: EUR 2 701 3474

Project EC Financial Contribution: EUR 1 650 000

SLOVAK PARTICIPANT 1

Slovak participant Name: SLOVENSKA OBCHODNA A PRIEMYSELNA KOMORA, Slovak Chamber of Commerce and Industry

Slovak participant address: Gorkého 9, 811 01 Bratislava

Contact person email/ phone: Mr. Ivan Pezlar, pezlar@sopk.sk, +421 55 3101 160
sopk@sopk.sk, jozef.rajtar@sopk.sk

SLOVAK PARTICIPANT 2

Slovak participant Name: TECHNICAL UNIVERSITY KOŠICE

Slovak participant address: Letná 9, 042 00 Košice

Contact person email/ phone: doc. Ing. Radoslav Delina, PhD., radoslav.delina@tuke.sk, +421-55-602 3279

Partners of the Consortium:

CNA ASSOCIAZIONE PROVINCIALE DI MODENA*CONFEDERAZIONE NAZIONALE DELL'ARTIGIANATO E DELLA PICCOLA E MEDIAIMPRESA - ITALY
ANONYMI EMPORIKI ETAIRIA ANAPTYXISKAI YPIRESION KAI PROIOTON SE TOMEIS YPSILIS TECHNOLOGIAS - GREECE
EUROCONSULTANTS S.A. - GREECE
UNIVERSITA DEGLI STUDI DI MODENA E REGGIO EMILIA - ITALY
CORVINNO TECHNOLOGIA TRANSFER KOZPONT NONPROFIT KOZHASZNU KFT - HUNGARY
SPIKES - BELGIUM
S.A.T.A. APPLICAZIONE TECNOLOGIE AVANZATE SRL - ITALY
BUSINESS INNOVATION BROKERS S. COOP. - SPAIN
KILKIS CHAMBER - GREECE
EUSKAL HERRIKO ELEKTRONIKA ETA INFORMAZIO - SPAIN
SIRRIS HET COLLECTIEF CENTRUM VAN DE TECHNOLOGISCHE INDUSTRIE VZW - BELGIUM
TEL&CO SRL - ITALY
INTEGRAL DE MEDIOS SL - SPAIN
MAGYAR IPARSZOVETSEG - HUNGARY

SLOVENSKA OBCHODNA A PRIEMYSELNA KOMORA, SLOVAK CHAMBER OF COMMERCE AND INDUSTRY- SLOVAKIA

Project Description: The eBEST project addresses small companies (typically with less than 50 employees) providing services to other businesses, often by subcontracting, in different industrial sectors. In general, the intended service companies perform added-value activities in the intermediate phases of the value chain and/or in the repair and maintenance phases.

Project Objectives: The eBEST project strategic objective is to set-up, experiment and promote the adoption of new collaboration practices within each business ecosystem, and across the ecosystem borders, taking advantage of a shared knowledge, an agreed corpus or rules and codes of practice, and a suite of ICT tools, to support the intended ecosystem dynamics. The eBEST project operational objectives are: Presenting worldwide the offers of the single service companies and clusters, and the integrated offer of the ecosystem as a whole, by exploiting sectoral and multilingual ontologies and taxonomies. Adopting trust-building mechanisms, codes of practice, work assignment rules and performance evaluation criteria in order to guide fair competition of the target companies. Providing the target companies with easily accessible ICT applications and services, to enable communication and collaboration within ecosystems and with the external world. Experimenting and improving in real-life conditions the functional coverage and user acceptance of the proposed approach, methodology and ICT functions. Deploying the project results to the largest audience, so as to reach a critical mass of user companies in the shortest possible time after project completion. The economic situation calls for fast answers. For this reason, the above-mentioned challenging objectives should be reached in no more than two years. This is feasible, since the RTD performers bring to the eBEST project a huge amount of background knowledge, in both organisational and technological terms, that was acquired by their participation in a number of recent European projects.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 276 784

SK Participant EC Financial Contribution: EUR 206 800

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Technical University of Kosice (TUKE) consists of nine faculties with around 16 000 full-time undergraduate students. It has 900 members of academic and the same number of research and administrative staff. Technical University of Kosice is the driver of ICT innovation and development in the Slovakia region. The main faculties related to the business, innovation and networked economy are the Faculty of Economics, Engineering and Informatics and BERG. Their research projects (5,6,7RP) focus on business networking, socio-economic analysis of ICT impact, e-business, trust building in the business networks, knowledge management, web technologies, logistics, eGovernment and regional development. Mission of TUKE is to provide its environment with scientific and technological knowledge basis, innovation and workforce, in order to form beneficial and sustainable future and high quality of life. This will be achieved at TUKE by innovative research and excellent education in all scientific branches of respective University Faculties. Because of our scientific excellence, we are the most successful organization in FPx projects in Slovakia, esp. in IST. TUKE is active in knowledge transfer, regional development and influencing public life through participation in several clusters and associations, esp. IT Valley, CEIT, ALADIN, etc. or in a very close cooperation with self-governing regions, regional municipalities, ministries, chambers of commerce, and relevant regional and national stakeholders.

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: All outcomes planned within the project were realized. The most important outcomes are a platform with standardized business communication, distribution planning, cooperation and project management functionalities, tested in a real business environment. The platform was designed to support electronic cooperation and collaboration of SMEs in cross-regional environment.

Slovak Participant's Role in Project: TUKE was responsible in WP2 as the WP leader and the leader of Analysis of exchanged documents task, and the Trusted operational scenarios task. Overall, TUKE was active in all RTD related tasks and supportive in tasks explicitly realized by SME AG partners.

ENVIRON- MENTOR

Project ID: 262138

Project Title: Facilitating Implementation of the IPPC Legislation through a Web-Based Environmental Consultancy Toolkit

Project website: N/A

Project Start Date: 2010-11-01

Project End Date: 2012-10-31

Project Total Cost: EUR 1 600 673.8

Project EC Financial Contribution: EUR 1 220 917

Slovak participant Name: SIRECO S.R.O.

Slovak participant address: Žatevná 12, 841 01 Bratislava

Contact person email/ phone: Mr. Peter Groidl, +421 905 611 057, peter.groidl@sireco.sk

Partners of the Consortium:

MALTA INDUSTRIAL INNOVATION FOR SMES LIMITED - MALTA

UNIVERSITEIT TWENTE - NETHERLANDS

IPPC CONSULTANTS LTD - UNITED KINGDOM

INTRO DIS TICARET LTD. STI. - TURKEY

CENTRE DE RECERCA I INVESTIGACIO DE CATALUNYA S.A. - SPAIN

ORGREZ - CZECH REPUBLIC

HIDRONIT MEDIOAMBIENTE SL - SPAIN

SIRECO S.R.O.- SLOVAKIA

Project Description: The ENVIRON-MENTOR project aims to assist environmental consultants in guiding their clients to implement environmental normative and standards in an efficient manner. ENVIRON-MENTOR will offer a web-based environmental consultancy toolkit (utilizing artificial intelligence techniques) to the participating end-user SMEs in order to help them in their daily activities.

Project Objectives: Apart from IPPC, ENVIRON-MENTOR will offer support on environmental management systems (EMS) and provides guidelines for EMS standards such as EMAS and ISO 14 000. ENVIRON-MENTOR will also target the Emissions Trading Scheme (ETS) by providing an automated platform for the trading of greenhouse gases. This will enable environmental consultants to offer an efficient emissions trading service to their clients. Guidance to these environmental normative and standards will be provided by using a knowledge-base expert system and multi-agent system targeted for this scenario. Four participating environmental consultants, an IT software company and three RTDs from eight different countries have joined forces to develop this system.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 286 720.2

SK Participant EC Financial Contribution: EUR 217 900.9

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

FP7 SMES EA SCHEME

Project ID: 217838

Project Title: Development of the implementation modalities for the establishment of a new externalised Exploratory Awards scheme for SMEs

Project website: N/A

Project Start Date: 2007-1-01

Project End Date: 2008-06-30

Project Total Cost: EUR 499 198

Project EC Financial Contribution: EUR 499 198

Slovak participant Name: NARODNA AGENTURA PRE ROZVOJ MALEHO A STREDNEHO PODNIKANIA, NATIONAL AGENCY FOR DEVELOPMENT OF SMALL AND MEDIUM ENTERPRISES, Slovak Business Agency

Slovak participant address: Záhradnícka 4872/153, 821 08 Bratislava

Contact person email/ phone: Mr. Peter Pospisil, +421 2 50 244 559, pospisil@nadsme.sk

Partners of the Consortium:

OSEO INNOVATION - FRANCE

BETA TECHNOLOGY LTD - UNITED KINGDOM

MALTA ENTERPRISE - MALTA

NEMZETI KUTATASI ES TECHNOLOGIAI HIVATAL - HUNGARY

THE ICELANDIC CENTRE FOR RESEARCH - ICELAND

ENTERPRISE IRELAND - ÉIRE/IRELAND

RESEARCH PROMOTION FOUNDATION - CYPRUS

SENTERNOVEM - NETHERLANDS

GENERAL SECRETARIAT FOR RESEARCH AND TECHNOLOGY - GREECE

MATIMOP, ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT - ISRAEL

THE RESEARCH COUNCIL OF NORWAY - NORWAY

MINISTERO DELL'UNIVERSITA E DELLA RICERCA - ITALY

ZENIT ZENTRUM FUER INNOVATION UND TECHNIK - GERMANY

KTU REGIONINIS MOKSLO PARKAS - LITHUANIA

TURKISH RESEARCH AND BUSINESS ORGANIZATIONS - BELGIUM

LUXINNOVATION GIE - LUXEMBOURG (GRAND-DUCHÉ)

OESTERREICHISCHE FORSCHUNGSFOERDERUNGSGESELLSCHAFT MBH - AUSTRIA

CENTRO PARA EL DESARROLLO TECNOLÓGICO INDUSTRIAL. - SPAIN

AGENCIA DE INOVACAO - INOVACAO EMPRESARIAL E TRANSFERENCIA DE TECNOLOGIA - PORTUGAL

MINISTERUL EDUCATIEI SI CERCETARII - AUTORITATEA NATIONALA PENTRU CERCETARE STIINTIFICA - ROMANIA

AGENCE BRUXELLOISE POUR L'ENTREPRISE - BELGIUM

SVENSKA VERKET FOER INNOVATIONSSYSTEM - SWEDEN

INSTITUTE FOR THE PROMOTION OF INNOVATION BY SCIENCE AND TECHNOLOGY IN FLANDERS - BELGIUM

HLP DEVELOPMENT - FRANCE

MINISTERSTWO NAUKI I SZKOLNICTWA WYSSZEGO - POLAND

NARODNA AGENTURA PRE ROZVOJ MALEHO A STREDNEHO PODNIKANIA, NATIONAL AGENCY FOR DEVELOPMENT OF SMALL AND MEDIUM ENTERPRISES, SLOVAK BUSINESS AGENCY- SLOVAKIA

Project Description: The European Commission has decided to experiment under FP7 a new approach for an Exploratory Awards (EA) scheme for a limited period. As a first approach, the general aim of this EA scheme is to provide financial support to SMEs and SMEs Associations in order to submit better prepared proposals for actions under Research for the benefit of SMEs.

Project Objectives: The general idea of the present proposal is to identify all issues in order to implement new mechanisms of EA, targeting SMEs in FP7 Capacity Work Program. The new mechanism(s) to be developed will provide additionality to the National/Regional existing schemes, and target both countries with and without existing schemes. This FP7 SMEs EA scheme coordinated by OSEO innovation gathers 26 partners from 24 countries, working together during seven months on the project built on 4 steps approach, defined in the proposal 4 Work Packages.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 5 189.5

SK Participant EC Financial Contribution: EUR 5 189.5

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

FREEFOAM

Project ID: 309283

Project Title: Novel PUR foaming manufacturing process with reduced toxic isocyanate content

Project website: <http://www.freefoam-project.eu/>

Project Start Date: 2013-05-01

Project End Date: 2016-04-30

Project Total Cost: EUR 2 113 802.95

Project EC Financial Contribution: EUR 1 629 000

Slovak participant Name: ZVAZ CHEMICKEHO A FARMACEUTICKEHO PRIEMYSLU SLOVENSKEJ REPUBLIKY, The Association of Chemical and Pharmaceutical Industry of the Slovak Republic

Slovak participant address: Hattalova 12, 831 03 Bratislava

Contact person email/ phone: Silvia Surová, tel.: 00421248209005, E-mail:surova@zchfp.sk

Partners of the Consortium:

ASOCIACION EMPRESARIAL DE INVESTIGACION CENTRO TECNOLOGICO DEL MUEBLEY LA MADERA DE LA REGION DE MURCIA - SPAIN
POLYMEREXPERT SA - FRANCE
COSMETIC VALLEY ASSOCIATION - FRANCE
TAGRA BIOTECHNOLOGIES LTD - ISRAEL
BFM LTD - UNITED KINGDOM
ZAVOD LESARSKI GROZD - SLOVENIA
PLAMA-PUR PROIZVODNJA IN PREDELAVAPLASTICNIH MAS DD PODGRAD - SLOVENIA
TECNOLOGIAS AVANZADAS INSPIRALIA SL - SPAIN

ZVAZ CHEMICKEHO A FARMACEUTICKEHO PRIEMYSLU SLOVENSKEJ REPUBLIKY, THE ASSOCIATION OF CHEMICAL AND PHARMACEUTICAL INDUSTRY OF THE SLOVAK REPUBLIC - SLOVAKIA

Project Description and Objectives: Polyurethane (PUR) is one of the most versatile materials ever created, present in the cars, under the carpets, as packaging material, cushioning material in almost all furniture and bedding. The European PUR foam sector has 50.000 companies that employ over 1.6 million people.

Polyurethane foam technology consists on foam building by reacting two chemicals, isocyanate and polyol, in the presence of other additives such as blowing agents, catalysts, and fire retardants. Manufacture of PUR foam requires certain amount of free isocyanate in order to fully react the polyurethane mixture. Isocyanate component represents a potential risk to workers during manufacture of the PUR foams. Isocyanate is included in the 2003 European schedule of occupational diseases, and it has been established that ten to twenty percent of asthma cases recorded in EU are due to isocyanates.

The aim of FREEFOAM is to reduce health risk of workers during foam manufacturing by lowering the concentration of free isocyanate and reducing the emission of the same to the atmosphere. We propose a unique, homogeneous reactive mixture for PUR foaming purposes where reactants are physically separated by using functionalised microcapsules of isocyanate conveniently dispersed on polyol mixture component. The reactive system will allow increasing the mixture reactivity due to the performed

compatibility and hence, homogeneity between isocyanate and polyol components while decreasing the exposure of workers to harmful emissions by lowering the residual monomer content on the foam, avoiding the emissions and migration of such components from foams. In addition, the used solution will allow decreasing the generated waste due to bad cell homogeneity and product density as consequence of bad mixing process.



Profile of Slovak Participant/ -s: The Association of Chemical and Pharmaceutical Industry of the Slovak Republic was established on November 30, 1991, as a voluntary association of entrepreneurial entities, active in the field of the Slovak chemistry and pharmacy. At present, it represents 53 members employing more than 16 000 people. www.zchfp.sk

SK Participant Project Cost: EUR 11 168

SK Participant EC Financial Contribution: EUR 9 770

Project Outcomes planned/real: The aim of FREEFOAM is to reduce health risk of workers during foam manufacturing, by lowering the concentration of free isocyanate and reducing the emission of the same to the atmosphere. We propose a unique, homogeneous reactive mixture for PUR foaming purposes, where reactants are physically separated by using functionalised microcapsules of isocyanate, conveniently dispersed on polyol mixture component. The reactive system will allow the increasing of the mixture reactivity, due to the performed compatibility, and hence homogeneity between isocyanate and polyol components, while decreasing the exposure of workers to harmful emissions, by lowering the residual monomer content on the foam, avoiding the emissions and migration of such components from foams. In addition, the used solution will allow to decrease the generated waste, due to bad cell homogeneity and product density, as a consequence of bad mixing process.

Slovak Participant's Role in Project: Alongside the rest of SME Associations in the project, ZCHFP will be in charge of indirectly validating the results, and of the dissemination of the project results and benefits, firstly among its members and also the SME community.

HARDALT

Project ID: 606110

Project Title: New generation of protective coatings alternative to hard chrome

Project website: <http://www.brunel.ac.uk/>

Project Start Date: 2013-12-01

Project End Date: 2016-11-30

Project Total Cost: EUR 2 281 391.84

Project EC Financial Contribution: EUR 1 676 000

Slovak participant Name: SLOVENSKA SPOLOCNOST PRE POVRCHOVE UPRAVY, Slovak Association for Surface Treatment and Technology

Slovak participant address: Radlinského 9, 812 37 Bratislava

Contact person email/ phone: prof. Ing. Ján Híveš, PhD.; president SSPU; jan.hives@stuba.sk; +421 2 593 25 468, marta.chovancova@sspu.sk, +421 2 59 325 459

Partners of the Consortium:

BRUNEL UNIVERSITY - UNITED KINGDOM
POLITECNICO DI MILANO - ITALY
ASSOCIATION OF INFORMATION TECHNOLOGY COMPANIES OF NORTHERN GREECE - GREECE
BRITISH ALLIED TRADES FEDERATION LBG - UNITED KINGDOM
CENTER OF TECHNOLOGY RESEARCH AND INNOVATION LTD - CYPRUS
AGRUPACION PYME PARA LA SINERGIA EN I MAS D SL - SPAIN
FALEX TRIBOLOGY NV - BELGIUM
UNIVERSITY OF SOUTHAMPTON - UNITED KINGDOM
ASFIMET SRL - ITALY
CENTRE FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE
KAMPAKAS METALLOURGIKI TECHNIKI EMPORIKI KAI VIOMICHANIKI AE - GREECE

SLOVENSKA SPOLOCNOST PRE POVRCHOVE UPRAVY, SLOVAK ASSOCIATION FOR SURFACE TREATMENT AND TECHNOLOGY - SLOVAKIA

Project Description: The total annual estimated direct cost of corrosion, not including wear damage, in the world is estimated at about 3.1% of the world's Gross Domestic Product (GDP). Protective coatings serve to prevent wear and corrosion and thus reduce the total loss from corrosion and wear. Hard chromium plating is one of the most widely used techniques for production of such coatings. However, hard chromium faces many problems: EU restrictions due to use hexavalent chromium, health issues for the plating industry personnel due to cancers events, functional defects of the coatings and low current efficiency. Thus, there is an urgent need to substitute chrome plating with an alternative one that could provide the same or even enhanced benefits that chrome has, without causing the above problems.

Project Objectives: The target of the project is to eliminate the use of hard chromium plating in European electroplating industry, by delivering a suitable alternative, which will be the nanostructured Ni-P and Ni-P composite coatings (with SiC or WC as reinforcing nanoparticles). The successful outcome of the HardAlt project will lead to the restriction or even elimination of the use of hexavalent chromium in the electrodeposition industry, and will not be subjected to EU legislations. As HardAlt coatings will present equal or even enhanced functional properties compared to hard chrome, they will be adopted by the metal working industry in applications where wear and corrosion resistance is of crucial importance. Significant benefit will be the

customization of the HardAlt coatings in the need of each application using the same bath, leading to raw materials saving and minimization of wastes from electroplating industry.

Profile of Slovak Participant/ -s: Slovak Association for Surface Treatment and Technology is a non-profit organisation for experts in the field of surface treatment, corrosion of metal materials, corrosion protection and applied electrochemistry from Slovak universities and enterprises. More than 12 small and medium enterprises are members of the association



SK Participant Project Cost: EUR 209 814.37

SK Participant EC Financial Contribution: EUR 113 370.65

Project Outcomes planned/real: Hard chromium coatings are applied from electrolytic baths containing Cr+6 (hexavalent chromium). Public and government agencies, having already recognized the extremely harmful impact of Cr+6 in both human health and environment (cancers, respiratory problems, contamination of aquifer etc.), have begun to enact legislations and regulations against hard chromium plating, in order to protect public health and workers involved with handling chromium plating (i.e. chromium platters). As a result of this legislation, plating companies are forced to spent significant amounts of money in order to achieve compliance (e.g., expensive ventilation systems, complicated waste management). Furthermore, European electroplating companies have to compete with the low labour cost countries (e.g., Asia), that have increased their competitiveness significantly over the last years. Hence, an urgent solution that will deliver superior protective coating compared to hard chromium, without using Cr+6 baths, should be found for the entire sector of European surface finishing Industry. HardAlt intends to give a permanent solution to this pan-European need, by delivering innovative electrolytic nanostructured Ni-P and Ni-P matrix composite coatings, with enhanced mechanical and anti-corrosion properties, in comparison to hard Cr. HardAlt coatings will be produced within the existing infrastructure of the companies, in contrast to other proposed solutions, that demand significant investments in new equipment. Moreover, HardAlt coatings' properties will be controlled through a wide range of values, depending on the desired application, allowing an extensive customization of the electroplating process.

Slovak Participant's Role in Project: SSPU have advisory contribution in all WPs, but especially in the WP1 (specifications) and WP8 (training). Also, they will contribute to the dissemination of the results among its member.

INFLATER

Project ID: 286522

Project Title: Development of a universal flood protection tool using the force of the water to protect against floods

Project website: <http://inflater.eu/>

Project Start Date: 2011-10-01

Project End Date: 2014-01-31

Project Total Cost: EUR 1 447 295

Project EC Financial Contribution: EUR 1 099 900

Slovak participant Name: TAUSEC S.R.O.

Slovak participant address: Trebišovská 361/1, 040 11 Košice

Contact person email/ phone: Mr. Jan Pavlisko, jpavlisko@tausec.com, +421 903 819 598, tausec@tausec.com

Partners of the Consortium:

MFKK FELTALALOI ES KUTATO KOZPONT SZOLGALTATO KFT - HUNGARY

BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM - HUNGARY

LABOR S.R.L. - ITALY

FORDAM GAZDASAGI TANACSADO KFT - HUNGARY

2 L'EAU PROTECTION SARL - FRANCE

X-TREME HOLDING BV - NETHERLANDS

BUILDPAIR INGENIERIA Y ARQUITECTURA SA - SPAIN

DUBLIN CITY COUNCIL - ÉIRE/IRELAND

TAUSEC S.R.O. - SLOVAKIA

Project Description: The INFLATER project is a novel strategy to help EU member states implement flood management, given that floods continue to threaten the personal and economic lives of European businesses and citizens. The idea of this project would be to design and build a portable dam, which can be placed anywhere quickly, easily and does not require much manpower.

The project would be broken down onto two main sections. The first section includes the mechanical part, which involves the design of the inflatable section. The second section involves the electrical sensor part and wireless communication.

The construction consists of three parts, the floating top section and the inflatable section with a skirt secured by fixing spikes and supporting strings. The inflatable section is connected to the skirt and secured to the ground with support strings and spikes. As the water level rises it lifts the floating part and the water is let inside the inflatable section. As the inflatable part is filled the strings go tight to support the structure. The aim of this project was to design and build a portable dam, which can be placed anywhere quickly, easily and does not require much manpower.

Project Objectives:

Scientific objectives

To gain an in-depth understanding of flood behaviour by studying past floods and by modelling possible scenarios.

To create a Best Practice Guide with the help of FPA at the end of the validation process using the consequence of safety and prevention knowledge gathered from the case studies and surveys. This guide will be distributed with the device as added value.

To create a knowledge base for the different existing materials, and, using the information gathered during the flood case studies, define the specifications for the required INFLATER materials, including reinforced and multi-layered foils.

Training, dissemination and exploitation objectives

To design, prepare, test, and deliver comprehensive training, in order to ensure that SME-partners will be able to assimilate the results of the project.

To disseminate non-confidential information about the INFLATER project and its results within the consortium and to a wide and relevant audience to extend the impact of project results.

To manage the foreground knowledge, as well as to protect and to use the research results to the best advantage of the SME proposers.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 228 007.81

SK Participant EC Financial Contribution: EUR 166 501

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MAC-RTM

Project ID: 285775

Project Title: Microwave Assisted Curing for Resin Transfer Moulding

Project website: <http://www.macrtm.eu/>

Project Start Date: 2011-11-01

Project End Date: 2013-10-31

Project Total Cost: EUR 1 502 005.22

Project EC Financial Contribution: EUR 1 095 100

Slovak participant Name: S-TEAM LAB SPOL. S.R.O.

Slovak participant address: Ilkovičova 3, 841 04 Bratislava

Contact person email/ phone: Dr. Jan Bezek, +421 903 412 173, bezek@s-team.sk

Partners of the Consortium:

ASOCIACION EMPRESARIAL DE INVESTIGACION CENTRO TECNOLOGICO DEL MUEBLEY LA MADERA DE LA REGION DE MURCIA - SPAIN

POLYMEREXPERT SA - FRANCE

COSMETIC VALLEY ASSOCIATION - FRANCE

TAGRA BIOTECHNOLOGIES LTD - ISRAEL

BFM LTD - UNITED KINGDOM

ZAVOD LESARSKI GROZD - SLOVENIA

PLAMA-PUR PROIZVODNJA IN PREDELAVAPLASTICNIH MAS DD PODGRAD - SLOVENIA

TECNOLOGIAS AVANZADAS INSPIRALIA SL - SPAIN

S-TEAM LAB SPOL. S.R.O. - SLOVAKIA

Project Description: The kick-off meeting was held on 22nd November 2011 by AIMPLAS in Valencia, MAC-RTM project aims to develop an alternative microwave-assisted curing (MAC) technology for thermoset materials (polyester, vinylester and epoxy resins) with improved flexibility and more cost and energy effective than current curing technologies. The MAC technology will be developed and adapted to the Resin Transfer Moulding (RTM) and RTM-Light industries for composites production. The MAC-RTM technology will be optimised through simulation of the microwave-resin interaction and required technological improvements will be developed, such as microwave radiation transparent moulds, improved microwave radiation absorption resins and electrically steerable antenna systems. Surrounding curing control and sensor systems as well as accurate process simulation techniques will be developed to guarantee a cost-efficient, controlled and reproducible curing process.

The MAC – RTM project will contribute to enhance the competitiveness of the European SMEs in the global market with the development of an integrated system that is technically innovative, environmentally friendly, and economically viable.

Project Objectives: MAC-RTM project aims to develop an alternative highly innovative microwave-assisted curing (MAC) technology for thermoset materials with improved flexibility and more cost and energy effective than current curing technologies.

The MAC technology will be developed and adapted to the Resin Transfer Moulding (RTM) and RTM-Light industries for composites production.

The challenging MAC-RTM technology will be optimised through simulation of the microwave-resin interaction. Curing control and sensor systems will also be developed to guarantee a cost-efficient, controlled and reproducible curing process.

The MAC RTM project will contribute to enhance the competitiveness of the European SMEs in the global market with the development of an integrated system that is technically innovative, environmentally friendly, and economically viable.

The developments in the MAC-RTM project will allow the adaptation of the RTM and RTM-light processes for medium volume components production with the following advantages:

- Reducing the production cycle time in 40%, hence an increase in the productivity and costs efficiency

- Decreasing energy consumption in 70%

- Lower styrene emissions (90 % reduction compared to open mould processes)

- Increase the crosslink (polymerization level) to nearly 100%

- Cheap polymeric moulds, which will reduce the mould cost by 30%

- Material saving as the pieces will not need to be over-dimensioned due to the 100% crosslink

A general purpose part will be designed, manufactured and tested, whose characteristics will incorporate features of standard moulds used in different industrial sectors in order to demonstrate that the proposed technology allows the fabrication of composite parts with better properties than parts obtained using conventional RTM and RTM-light processes, using a faster, more cost-effective, environmentally friendly and higher quality production process thanks to MAC-RTM technology.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

MAPEER SME

Project ID: 245419

Project Title: Making Progress and Economic Enhancement a Reality for SMEs

Project website: <http://mapeer-sme.eu/>

Project Start Date: 2009-11-01

Project End Date: 2011-12-30

Project Total Cost: EUR 1 872 201.11

Project EC Financial Contribution: EUR 1 632 921.21

Slovak participant Name: NARODNA AGENTURA PRE ROZVOJ MALEHO A STREDNEHO PODNIKANIA, National Agency for Development of Small and Medium Enterprises, SLOVAK BUSINESS AGENCY- SLOVAKIA

Slovak participant address: Miletičová 23, 821 09 Bratislava

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Partners of the Consortium:

INFORMATIKAI TAVKOZLESI ES ELEKTRONIKAI VALLALKOZASOK SZOVETSEGE - HUNGARY

GOTTFRIED WILHELM LEIBNIZ UNIVERSITAET HANNOVER - GERMANY
UNIVERSITY OF ULSTER - UNITED KINGDOM

ROSE VISION SL. - SPAIN

TECHNICAL SUPPORT FOR EUROPEAN ORGANISATIONS SPRL - BELGIUM

CATT INNOVATION MANAGEMENT GMBH - AUSTRIA

INTERNATIONAL ENVIRONMENT AND QUALITY SERVICES NORTH GREECE LTD - GREECE

AGENCIJA ZA EKONOMSKI RAZVOJ OPSTINE PRIJEDOR - BOSNIA AND HERZEGOVINA

AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA - ITALY

CTM - FRANCE

FUNDACJA UNIWERSYTETU IM ADAMA MICKIEWICZA W POZNANIU - POLAND

TURUN YLIOPISTO - SUOMI/FINLAND

STEINBEIS INNOVATION GGMBH - GERMANY

INVENT BALTICS OU - ESTONIA

NARODNA AGENTURA PRE ROZVOJ MALEHO A STREDNEHO PODNIKANIA, NATIONAL AGENCY FOR DEVELOPMENT OF SMALL AND MEDIUM ENTERPRISES, SLOVAK BUSINESS AGENCY- SLOVAKIA

Project Description: The MAPEER SME project supports various activities, in order to create the background conditions in which Research, Development and Innovation (R&D&I) is welcomed, supported and nourished in European SMEs.



Making Progress and Economic Enhancement a Reality for SMEs

Project Objectives: The MaPEeR SME proposed CSA covers EU-27 Member States and Bosnia & Herzegovina, with a clear cross-sectoral approach, and aims to acquire comprehensive insight into the design, implementation and impact of the existing SME research and innovation support programmes and initiatives, and convey it in the most appropriate way to SME stakeholders and policy-makers. The methodology adopted by MaPEeR SME brings SME needs and requirements in the centre of the development and of the evolution processes of programmes and initiatives, in a user-centric framework. End-users will be an integral part of the process. MaPEeR SME is to identify, map and analyse all those programmes and initiatives that assist the collaboration between science and SMEs. Including not only purely technology-oriented and R&D programmes, but also life-long learning or applications of industrial science results, MaPEeR SME will also identify and evaluate the economic, social and environmental impact of the identified support measures on the SMEs, in order to pro-actively feed in the web platform, and to improve and develop recommendations for new support measures, better addressing SMEs through the European SME Council. On this basis, the MaPEeR SME work plan foresees the definition and refining of a (regionally-differentiated, and cross-sectoral) Strategy for the future design of new RTD and innovation policies, measures, and support services to assist research actions in favour of SMEs, and fully exploit synergies between research, innovation and education activities. The approach guiding the MaPEeR SME project is to come up with a comprehensive set of practical recommendations, comparative analysis, and consistently effective strategies and policies, to improve the performance of SMEs advance research and innovation initiatives and programmes, by learning not only from best practices, but mainly from the processes by which these are achieved.

Profile of Slovak Participant/ -s: For more than 20 years NADSME, the National Agency for Development of Small and Medium Enterprises, has been supporting the growth and development of Slovak SMEs, to improve their competitiveness at the local, regional, and national levels, as well as on the EU market. The non-profit seeking organization is a unique platform of the public and private sector, initiated by the European Union and the Slovak Government. The Agency was founded by the Slovak Ministry of Economy, the Slovak Association of Crafts, and the Entrepreneurs Association of Slovakia, the latest being a decisive representative of private business sector, which did not exist in Slovakia before 1989. The Agency has become a think-tank that identifies and analyses the barriers of the business community in Slovakia. It prepares strategies, and drafts proposals how to tackle them. Combining data with being an SME envoy, with power delegated by the Ministry of Economy, NADSME is responsible for establishing a close, direct link between the European Commission, SMEs, and their representatives. NADSME is one of the founders of the Business Platform for International Development Cooperation.

SK Participant Project Cost: EUR 51 940

SK Participant EC Financial Contribution: EUR 47 721.5

Project Outcomes planned/real: 1. Provide a comprehensive, in-depth, horizontal and cross-sectoral analysis on SME research programmes and initiatives in terms of their structure, implementation modalities, methodologies used and their impact. 2. Identify end-users' (SMEs and EU Stakeholders) needs, requirements and feedback to overcome barriers for getting SMEs into research and innovation activities. 3. Organize synergies and initiate structured policy dialogue between the various players at EU, national, and regional levels (DG RTD, REGIO, EAC and ENTR, along with national and regional level), through the European Experts Council on SMEs. 4. Provide a comprehensive, comparative analysis and recommendations for a new strategy and support measures that better address the needs of SMEs, 5. Set-up and establish appropriate and sustainable mechanisms to provide advice to the EC, the national and regional (EU27) policy makers, and the SME research programme managers (from S&T related Ministries, national and regional research agencies and intermediaries), as well as SME's stakeholders.

Slovak Participant's Role in Project:

- Identification of appropriate sectors in the Czech and Slovak Republic
- Collecting data from individual selected sectors and SME'S,
- Data sorting and analyses,
- Drawing conclusions from the above analysis,
- Involvement of SME's into the process and the application of the analyses' conclusions.

MEATPACK

Project ID: 605125
Project Title: A novel packaging system for meat safety and shelf-life extension
Project website: <http://meat-pack.eu/>
Project Start Date: 2013-12-01
Project End Date: 2015-11-30
Project Total Cost: EUR 1 513 798
Project EC Financial Contribution: EUR 1 153 478.7

Slovak participant Name: Company Kamea Electronics s.r.o

Slovak participant address: Nikola Teslu 17, 921 01 Piešťany

Contact person email/ phone: Ing.Ladislav Kusenda, ladislav.kusenda@kamea.sk, 00421905725265

Partners of the Consortium:

INNOVACIO I RECERCA INDUSTRIAL I SOSTENIBLE SL - SPAIN
HOLFELD PLASTICS LIMITED - ÉIRE/IRELAND
DUBLIN INSTITUTE OF TECHNOLOGY - ÉIRE/IRELAND
IRISH COUNTRY MEATS (SHEEPM EAT) UNLIMITED COMPANY - ÉIRE/IRELAND
TEKNOLOGISK INSTITUT - DENMARK
EMBUTIDOS DAZA SL - SPAIN
STEPHENS FRESH FOODS LTD - UNITED KINGDOM
THE FOOD MACHINERY COMPANY LIMITED - UNITED KINGDOM
Company Kamea Electronics s.r.o - SLOVAKIA

Project Description: Meat and poultry products are vehicles for millions of cases of foodborne illness globally each year. Controlling pathogens such as campylobacter, Escherichia coli O157:H7, Listeria monocytogenes, Salmonella, and Yersinia enterocolitica, is a primary goal for industry. Additionally, processors are constantly striving to lengthen product shelf life. However, consumer aversion to traditional chemical preservatives has left processors with less flexibility in choosing preservation methods. This has opened up a technological gap where process innovation is required and a major business opportunity presents itself for the development of a non-thermal, novel food preservation system to control foodborne pathogens associated with meat and poultry.

This project will develop a continuous in-package decontamination and shelf-life extension system for meat based on Non-thermal plasma (NTP), offering antimicrobial efficacy without the use of chemical sanitizers and which is non-invasive, leaves zero residues and does not adversely affect product quality. Preliminary studies with NPT on meat products, point to rapid inactivation of pathogenic and spoilage microorganisms associated with meat, resulting in significant extensions of shelf-life (an additional 5 days). A laboratory test-rig system will be optimised for its antimicrobial efficacy for in-package decontamination of both red and white meats. Shelf life extension, along with organoleptic and nutritional properties of treated meat will be evaluated. The results will then be scaled up to pre-commercial level and validated in the industry paving the way forward for rapid post-project industrialisation.

A critical advantage of this world-first technology for the meat industry is the In-package treatment, which is desired by the food industry as this approach mitigates against recontamination and provides increased shelf-life.

Project Objectives:

MEATPACK project aims at developing a novel preservation method for packed meats. Cold atmospheric pressure plasma is electrically energised matter, composed of highly reactive species, including gas molecules and charged particles. It has been used for surface modification, water disinfection and biomedical applications. Plasma offers a convenient way of treating products inside the closed packaging material, thus eliminating the risk of potential post-processing recontamination of produce.

Profile of Slovak Participant/ -s: Kamea Electronics s.r.o. in Piešťany was established following the transfer of the activities of Ing. Ladislav Kusenda to the corporate entity s.r.o. (Ltd.). We have been operating on the market since 1992. Our main activities have been deliveries of equipment for production of semiconductor components. We are also active in research and development activities, and in this area, we cooperate with Comenius University in Bratislava, Slovak University of Technology in Bratislava, The Slovak Academy of Sciences, Masaryk University (Czech republic), Tomas Bata University in Zlin (Czech Republic) and with international companies, such as Pegas and Tesla Blatna in the Czech Republic, and other companies in Austria, Germany, Switzerland and Spain.

SK Participant Project Cost: EUR 189 340

SK Participant EC Financial Contribution: EUR 144 675



Project Outcomes planned/real: The target of the project Meatpack is the implementation of a new technology of treatment of food-stuffs (e.g., meat), which are wrapped in shielding atmosphere, so that their life-cycle can be increased and any possible presence of bacteria in them prevented. Atmospheric plasma discharge technology has the power to provide these required parameters, simultaneously with keeping of big production abilities of present processors and suppliers of the before-mentioned food-stuffs. The planned target is to expand this technology, and to deliver the equipment necessary for implementation of this technology in European space for both small and big food-stuffs processors.

Slovak Participant's Role in Project: Our task in the Meatpack project is the technical support of a solutionist team, consulting activities with research partners from Ireland, Denmark and Spain. At the same time, we are active in dissemination of information about this project. Approximately 25% of the project has been completed.

MICRO - TRIGENERATION

Project ID: 606108

Project Title: Micro - TRIGENERATION

Project website: <http://www.microtrigeneration.eu/index.html>

Project Start Date: 2013-10-01

Project End Date: 2016-03-31

Project Total Cost: EUR 1 499 516.3

Project EC Financial Contribution: EUR 1 098 992.4

Slovak participant Name: Energy Changes s.r.o

Slovak participant address: Stará Vajnorská 9, 831 04 Bratislava

Contact person email/ phone: Laura Martonová Email: laura.martonova@energy-changes.com Phone: +421 911 299 822, Rolf Schwendemann, rolf.schwendemann@energy-changes.com, +421 2 44 461 837

Partners of the Consortium:

4WARD ENERGY RESEARCH GMBH - AUSTRIA
MITTELBADISCHE ENERGIEGENOSSENSCHAFT EG - GERMANY
LEA GMBH - AUSTRIA
HOCHSCHULE HANNOVER - GERMANY
THERMODYNA MASCHINEN UND ANLAGEN GMBH - GERMANY
ENERGY CHANGES S.R.O - SLOVAKIA

Project Description: Initial situation: The operation of small power plants (e.g. for households) for electricity, heat and cold (micro trigeneration) requires new solution trials. There are systems required, which are user-friendly, low-maintenance, economic. The new Schukey engine unites provide these attributes. The Schukey engine shows an ingenious concept ("universality as a concept") and works at a temperature of 120A°C steam or 1.1 bar. The cooling is directly made by air. In the Central Europe 5 kWel and 20 kWth are provided to 40 mA² CPC-collectors. A household can cover A? of the annual heat demand (approx. 27 MWh) and current demand (approx. 4 MWh).

Difficulties: The Schukey technology is deciding in a very early developmental stage and thus it still requires a comprehensive development work: (1) Transmission compression, (2) Mass diminution (rotors & case), (3) coordination the control of the pressure volume temperature on the optimal expansion relationship of the domestic operating range, (4) creation of a thick system despite a smaller performance (max. 3% mass loss), (5) Integration into the primary domestic energy system or power supply system.

Project Objectives:

1) The primary objective of the project is to develop and test a compact combination system (10 kg of engine weight for 5 kWel) for the joint production of electricity, heat and cold in the lower power range by using the Schukey technology – short "micro-trigeneration".

2) The solution should be simple, standardized, economical and practices (for a Schukey engine with power range of 2-2.5 kWel pure engine manufacturing costs of between EUR 300 and EUR 500 should be achieved).

3) The project will seek to ensure that short-term specific electricity production costs are achieved in the field of grid parity (long-term costs should be lower still). Cooling energy should be generated at a rate of 0.5 €/kWh (or 0,12 €/kWh for conventional air conditioners).

Profile of Slovak Participant/ -s: Energy Changes s.r.o (SLOVAKIA) develops international clean energy and emission reduction projects, conducts consultancy services in the energy, (environmental) finance and carbon sector for businesses, governments and other national and international organizations, such as UNIDO, UNDP, EBRD, EIB, IFC. Energy Changes deals with the sustainable transformation of local available energy resources into electricity and heat, seeking to apply new regional approaches for the use of alternative fuels. The Energy Changes Team develops regional energy concepts, analyses the energy requirements of buildings, creates redevelopment concepts, conducts energy audits, and supports industry and businesses in reducing their energy needs.

Project references of Energy Changes are, amongst others:

Biogas plant Rožňava: feasibility study, engineering, calculation of profitability, identification of potential risks, recommendations,

Energy audit and feasibility study for the Burda printing facility: analysis of energy demand, feasibility study for power generation with a gas fired CHP plant,

CHP plant Rimavska Sobota: planning, project development and implementation of a biomass CHP plant, supplying an industrial facility and a district heating network,

Small Hydro Power feasibility study: status analysis and review of the potential for electricity generation by small hydro power plants in Slovakia,

15 MWel-CHP project in Tanzania, DEWA Chiller Station L Dubai: developing and defining monitoring procedures, and supporting validation for CDM projects, according to the Kyoto Protocol

SK Participant Project Cost: EUR 453 000.8

SK Participant EC Financial Contribution: EUR 328 120.8

Project Outcomes planned/real: Planned outcomes: Development and demonstration of a very compact trigeneration-Schukey unit in the low power and middle temperature (> 120°C) range: a simple, standardized, economical and practical solution should be achieved, at very low total costs of € 300-500 for a power range of 2.5-5 kWel.

The objectives are:

Validated data from the demonstration monitoring: development potentials, requirements, risks, challenges, factors of success, problems etc.

Concept for manufacturing (assembling, materials, components, process, dimensioning, design, and workflow),

Concept for system integration of different application possibilities (user requirements, interfaces, system engineering, installation, training, operation, maintenance etc.),

Business plan: economic and legal feasibility, exploitation partners, logistics and maintenance service, investors, market conditions, legal framework conditions etc.,

Competence/Knowhow for the beneficiary (SMEP), to strengthen its competitiveness and to open new business opportunities.

Slovak Participant's Role in Project: Beneficiary (SMEP) Leader of Work Package 2 "Analysis of the initial situation" Leader of Task 5.3 "Verification/Validation/Evaluation of the demonstration results"

The main tasks include the analysis of economic viability, legal feasibility and socio-economic boundary conditions of various scenarios of usage, market research, development of business cases, the investigation of customer expectations and user requirements, validation and evaluation of the results.

MOBI3CON

Project ID: 218374

Project Title: Developing Mobile 3D Data Collection, Processing and Dissemination Solution for Construction SME-s

Project website: <http://mobi3con.eii.ee/>

Project Start Date: 2009-01-01

Project End Date: 2011-12-31

Project Total Cost: EUR 2 225 771

Project EC Financial Contribution: EUR 1 759 332.8

Slovak participant Name: GOTIVE a.s.

Slovak participant address: Bajkalska 21/A, 821 01 Bratislava

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Partners of the Consortium:

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CAIGOS GMBH - GERMANY

FEDERATION EUROPEENNE DES TRAVAILLEURS DU BATIMENT ET DUBOIS - BELGIUM

HISBIM BILGI VE ILETISIM TEKNOLOJILERI SANAYI TICARET AS - TURKEY

TRV KLIIMA - ESTONIA

BELTRONIC VETRIEBS GMBH - GERMANY

CENTRE SCIENTIFIQUE ET TECHNIQUE DE LA CONSTRUCTION - BELGIUM

JAROSCH & HAAS GMBH - AUSTRIA

AS DATEL - ESTONIA

TEKNOLOGISK INSTITUTT AS - NORWAY

FEDERATION DE L'INDUSTRIE EUROPEENNE DE LA CONSTRUCTION - FRANCE

GOTIVE A.S.- SLOVAKIA

Project Description: The Mobi3Con is communicating with existing 3D enterprise resource management and client management systems, which allows the user to collect, process, and transfer building information such as BIM (Building Information Modelling) information in the form of data about the building objects. BIM data is currently unavailable in most construction sites because of lack of the proper systems and because this data cannot be properly used without the corresponding 3D models.

Project Objectives: The goal of Mobi3Con project is to overcome the gap in 3D information between the actual situation and information stored in the construction stakeholders databases. There is a significant gap between the requirements of the users of existing 3D solutions and their cost and actual capabilities. To bridge these gaps we will develop a rugged and robust handheld 3D navigation and 3D data processing system, usable on site and in field conditions which will enable easy 3D data management. Our solution will enable 3D navigation in buildings and enable interaction with generally accepted engineering software tools.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

PROMETHEUS

Project ID: 262184

Project Title: Treatment of high organic load, high temperature and high salinity industrial waste water containing recalcitrant contaminants

Project website: http://www.etrma.org/fp7_prometheus/

Project Start Date: 2010-11-01

Project End Date: 2012-10-31

Project Total Cost: EUR 1 477 797

Project EC Financial Contribution: EUR 1 162 055

Slovak participant Name: FAGOR EDERLAN SLOVENSKO, A.S.

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Partners of the Consortium:

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INTERNATIONAL PRIMARY ALUMINIUM INSTITUTE LBG - UNITED KINGDOM

TECNOLOGIAS AVANZADAS INSPIRALIA SL - SPAIN

AQUATEAM - NORWEGIAN WATER TECHNOLOGY CENTRE AS - NORWAY

DELCO T.S. SRL - ITALY

INSTITUTO DE BIOLOGIA EXPERIMENTAL E TECNOLÓGICA - PORTUGAL

TECHNO MEMBRANES DEVELOPPEMENT - FRANCE

EUROPEAN TYRE AND RUBBER MANUFACTURERS' ASSOCIATION - BELGIUM

TECNICAS DEL AGUA UREN SL - SPAIN

FAGOR EDERLAN SLOVENSKO, A.S.- SLOVAKIA

Project Description: The PROMETHEUS project has received European Commission funding under the FP7 framework to find a technical solution to treat high organic load, high temperature and high salinity industrial waste waters containing recalcitrant contaminants originating from injection/extrusion and post-washing processes in aluminum and rubber parts production industries.

PROMETHEUS waste water treatment system treats these waste waters obtaining a final effluent meeting discharge requirements plus high purity water and chemicals (demoulding agent used in injection/extrusion processes) recovery for re-use plus a 99% reduction of waste production needing off-site treatment.

There is currently no system in the market allowing for this. This is a competitive opportunity to export a new technology that addresses all these issues.

Project Objectives: PROMETHEUS aims to treat high organic load high temperature (85°C), and high salinity industrial waste waters containing recalcitrant contaminants originating from injection/extrusion and post-washing processes in aluminium and rubber parts production industries. PROMETHEUS waste water treatment system treats these waste waters obtaining a final effluent meeting discharge requirements plus high purity water and chemicals (demoulding agent used in injection/extrusion processes) recovery for re-use plus a 99% reduction of waste production needing off-site treatment.

PROMETHEUS solution for waste water from injection/extrusion and washing processes in aluminium and rubber parts producing industries treatment results in a 99.5% water recovery for re-use in the plant (high quality water for even cooling towers use) and a 99% decrease in waste produced that needs off-site treatment. These figures result in the obvious environmental and economic (63% cost reduction compared to current waste water treatment systems use in the sectors) positive impacts. Expected benefits of the solution to the industrial waste water treatment sector are estimated to be 84.8 M of sales revenue after year 5 of commercialisation.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 21 115

SK Participant EC Financial Contribution: EUR 15 128

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SAFEMETAL

Project ID: 262568

Project Title: Increasing EU citizen Security by utilizing innovAtive intelligent signal processing systems For Euro-coin validation and metal quality testing

Project website: <http://www.safemetal.eu/>

Project Start Date: 2010-12-01

Project End Date: 2012-11-30

Project Total Cost: EUR 1 788 853.86

Project EC Financial Contribution: EUR 1 252 482

Slovak participant Name: EDIS (VYSKUMNE A VYVOJOVE DRUZSTVOPRE ELEKTRONICKE DIGITALNE SYSTEMY)

Slovak participant address: Rampová 7, 040 13 Košice

Contact person email/ phone: prof.Ing. Josef Blažek, CSC. Phone: +421556321566, blazekjo@gmail.com, E-mail : edis@edis-vvd.sk

Partners of the Consortium:

ARDORAN OU - ESTONIA

ALGO SYSTEMS AE - GREECE

RIGAS TEHNISKA UNIVERSITATE - LATVIA

AS METROSERT - ESTONIA

ELECTRONICS DESIGN LTD - ESTONIA

TELECOMMUNICATION SYSTEMS INSTITUTE - GREECE

TALLINNA TEHNIAULIKOOL - ESTONIA

UNIVERSITY OF CYPRUS - CYPRUS

DUNVEGAN SYSTEMS LTD - UNITED KINGDOM

EDIS (VYSKUMNE A VYVOJOVE DRUZSTVOPRE ELEKTRONICKE DIGITALNE SYSTEMY) - SLOVAKIA

Project Description: Euro coinage has been steadily subject to increasing outlawed counterfeiting activities. The most recent figures bring to 14 the number of illegal mints discovered to date, accompanied with a significant cumulative total of counterfeit coins detected or confiscated. Over 80 classes of counterfeit coins and corresponding tooling and working methods are identified, which by European Technical and Scientific Centre directives lead undoubtedly to the conclusion that the vast majority of counterfeit manufacturing facilities remain in operation. At the same time conductivity measurements are widely used for characterisation of heat treatment of aluminium alloys and other non-destructive testing, especially for safety-critical applications in aerospace industry, nuclear reactors etc. Prior art in the field has led to technologies made to reduce at manufacturing time the spread of electrical parameters and at validation time the measurement of electrical conductivity of the metal respectively. Due to the large number of coins produced by European mints, material for coin blanks is sourced from different suppliers. Recent European standards to increase the security of the coinage by reducing the spread of parameter values result in significant challenges for manufacturers of coin validators used in vending machines and bank coin sorting machines.

The SMEs participating have identified these challenges and consider they represent major product opportunities. The developed metal validation technology will be required to distinguish between increasingly sophisticated counterfeit and the tightly specified genuine coins and to characterise the metal quality. This will be accomplished by developing advanced signal processing and data fusion techniques, and by also developing planar electro-magnetic sensors and pulse eddy-current measurement techniques with increased field sensitivity. The market being addressed includes coin validators and aerospace and nuclear industries.

Project Objectives: The key scientific and technical objectives of the project are:

Development of techniques for measurement of electrical conductivity of coinsized copper-alloy specimens. Targeted uncertainty within $\pm 1\%$ from DC to 1MHz and $\pm 4\%$ to 10MHz with measurements traceable to international standards.

Development of mathematical models and numerical techniques to define the interaction of broad-band electromagnetic fields with objects of finite size, such as coins, and of bi-metallic/ layered construction.

Detailed characterisation of the electromagnetic properties for euro coins of all denominations and a selection of other coins.

Investigation of eddy current signal interaction with bi-metallic, layered construction of euro coins at a range of frequencies from DC up to 10MHz.

Investigation of the effect of surface finish, plating, tarnishing/ oxidation and embossing patterns (for both the common and country-specific sides of a coin) on conductivity across the range of frequencies.

Development of theory to model electro-magnetic planar sensors, enabling use as improved alternative to conventional coil sensors.

Development of the theory for pulse-based/ broad-band eddy-current conductivity measurements.

Development and application of novel signal processing techniques to extract useful information from the complex electromagnetic signals using low-cost and low-power hardware.

Development and optimisation of sensors to measure other parameters of coins — diameter, thickness, weight, etc.

Development and application of novel data fusion methodologies to combine information from the electromagnetic and other sensors.

Design, realisation and evaluation of validator prototypes based on the innovations applicable to vending, service automation and amusement machines. The requirement of these high volume market sectors are for high security and reliability coin validation combined with low cost.

Design, realisation and evaluation of validator prototype based on the innovations applicable to high speed coin sorting and counting machines used by banks. In addition to high speed operation (targeted at up to 3,500 coins per minute), high discrimination between genuine, counterfeit and foreign coins is necessary with accurate, traceable calibration of the machines.

Design, realisation and evaluation of prototype conductivity measurement and calibration system based on the innovations applicable to the needs of mints, coin blank suppliers and banks.

Profile of Slovak Participant/ -s: Company EDIS has been founded in 1990. We are a small, research and development company, which is interested in the development and applications of special sensors, focused on magnetometry. We have carried out basic application research and developed sensors and measuring methods, as well as production of the systems for industry applications. During more than 23 years of its history, the company, our industrial systems have worked on the following projects: automated temperature sensor system (SAMET), study of the sensing and measuring technique for the research institute of VSŽ Košice (now US STEEL), the Ministry of Defence (MO) of the Slovak Republic (for example the measurement and analysis of magnetic properties of the T72M tank), Vršanská uhelná a.s., SD Kadaň a.s. Prodeco Teplice, and many more companies. We have completed more than 50 special HFT systems for indication of ferromagnetic particles in industry. The company has worked out the automated system for measuring magnetic properties of magnetic materials for analysis of iron cast sheets for VSŽ Košice (now US STEEL), for analysis of the magnetic properties of a train rail for Třinecké Železiarne a.s., as well as for the measurements of the new magnetic materials for the Institute of Physics, the Slovak Academy of Sciences (SAS), Bratislava. The research and development of a special Vector Magnetic Analyser –VEMA – for various institutes, such as SAS (the Slovak Academy of Sciences), CAS (the Czech Academy of Sciences), and 5 universities in SK and CZ. Since 2009, we have been participating on EDA – the European Defence Agency project SESAMO.

SK Participant Project Cost: EUR 119 699.71

SK Participant EC Financial Contribution: EUR 90 035.83

Project Outcomes planned/real:

The objectives have been met at a good level, and they allow the introduction into practice.

Slovak Participant's Role in Project: EDIS joined the SAFEMETAL Project order to gain access to the project results and outputs, and thus to be able to use these in its innovative production. Based on the obtained results, the company will also be able to develop its own special-purpose devices for characterizing metal materials and NDT. EDIS worked with RTD, consulted their interim results of research and development, offering unconventional solutions and participation in the testing. EDIS enjoys a special position in the SAFEMETAL Project, because of the following reasons:

The first reason is the nature of its activities – operation of the SME, which is supplies the market with a low quantity of specific, added-value products, i.e. indicators of ferromagnetic particles on excavators and belt conveyors in extremely difficult operational conditions in surface mines and steelworks. Other items include special measurement devices, with features tailored to specific, customer requirements (usually demanded by universities or research institutes). Apart from the development and manufacturing, a substantial part of the company's activities consists of the diagnosis of the characteristics of materials and, and of performing various special-purpose measurements and analyses, e.g., for steelworks and further customers, such as Chirana. The second reason is the fact that on completion of the SAFEMETAL Project, EDIS became a co-owner of the results of both the theoretical and applied research, but not the owner of the equipment developed on the basis of results 9 up to 11.

SILCO

Project ID: 232249

Project Title: Innovative electrodes to control trace metal ionization used to treat Legionella and other pathogens in water distribution systems

Project website: N/A

Project Start Date: 2009-11-01

Project End Date: 2011-10-31

Project Total Cost: EUR 1 414 109

Project EC Financial Contribution: EUR 953 667

Slovak participant Name: RNDr. Kamil Vrana, CSc.-HYDEKO-KV

Slovak participant address: Wolkrova 4, 85101 Bratislava

Contact person email/ phone: RNDr. Kamil Vrana, +421 905 253 488, hydeko@hydeko.sk

Partners of the Consortium:

EIJKELKAMP AGRISEARCH EQUIPMENT BV - NETHERLANDS

HOLLAND WATERTechnology BV - NETHERLANDS

TERRAMENTOR EVROPAIKOS OMILOS OIKONOMIKOU SKOPOU*TERRAMENTOR EEIG - GREECE

UNIVERSITA DEGLI STUDI DI FIRENZE - ITALY

FACHHOCHSCHULE KÖLN - GERMANY

ECOBIOservices AND RESEARCHES SRL - ITALY

SELOR EEIG - NETHERLANDS

RNDr. Kamil Vrana, CSc.-HYDEKO-KV- SLOVAKIA

Project Description: This project develops a new monitoring tool based on Hg-free micro-electrodes capable of monitoring at low concentrations in water. Innovative boron doped diamond electrodes for longer term monitoring, and screen printed electrodes for shorter term monitoring will be incorporated into the analytical device. The device will be linked to a self-adaptive intelligent controller to control the dosing of copper and silver. Further the system will be provided with a wireless communication interface which will allow remote control over the internet as well as operation of a central data recording server. After laboratory calibration and operator training, 5 prototypes will be tested at sites provided by the SME partners in NL, SK, GR, and CY.

Project Objectives: Development of this tool will strengthen the market position of the SMEs in a field where no comparable device is currently present. Based on the number of copper-silver ionisation systems already sold in Europe, estimates indicate a market value of more than 100m euro over five years for the SILCO device. In addition, promising spin-offs are foreseen since the system will also be capable of measuring range of other trace metals in aqueous environments.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 205 714

SK Participant EC Financial Contribution: EUR 155 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SODSAT

Project ID: 605729

Project Title: Remote precision management of turf grass sod production by means of artificial intelligence and satellite imaging

Project website: <http://sodsat-project.com/>

Project Start Date: 2014-02-01

Project End Date: 2016-01-31

Project Total Cost: EUR 1 688 642.8

Project EC Financial Contribution: EUR 1 270 000

Slovak participant Name: RICHTER RASEN SLOVAKIA S.R.O.

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Partners of the Consortium:

ATEKNEA Solutions Malta Limited - MALTA

Bottos SRL - ITALY

Production Trade and Service Company Arthaus Doo import-export Skopje - MACEDONIA

Tecmic-Tecnologias de Microelectronica SA - PORTUGAL

Plantec Societa Agricola SRL - ITALY

Ostfold Gress AS - NORWAY

Edma Innova SL - SPAIN

Turf Europe SRL - ITALY

RICHTER RASEN SLOVAKIA S.R.O.- SLOVAKIA

Project Description: This two-year project proposes to address the current situation by developing a web based expert system, multi spectral satellite imaging analysis and on-site sensing and portable devices software to aid decision-making in sod farms, in order to decrease chemical and agronomical inputs, while maintaining or increasing turf grass quality. The system will provide expert agronomical recommendations based on its historic and current data and current multi spectral image processing and on-site sensing.

Project Objectives: The Main Objective of the SodSat project is to increase the competitiveness of turf grass producers by providing a novel remote intelligent turf management system by means of Artificial Intelligence and satellite imaging.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 259 092.3

SK Participant EC Financial Contribution: EUR 189 609

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SYNCSSEN

Project ID: 222322

Project Title: ULTRA-LOW POWER WIRELESS SENSOR NETWORK FOR METERING APPLICATIONS

Project website: <http://syncsen.cric-projects.com/>

Project Start Date: 2008-12-01

Project End Date: 2011-01-31

Project Total Cost: EUR 1 542 518

Project EC Financial Contribution: EUR 1 051 895.75

Slovak participant Name: SOFT & CONTROL TECHNOLOGY SRO

Slovak participant address: Magnezitárska 10, 040 13 Košice

Contact person email/ phone: Mr. Patrik Meričko, project@sct.sk, +421 905 820 931

Partners of the Consortium:

CENTRE DE RECERCA I INNOVACIO DE CATALUNYA S.A. - SPAIN

UNIVERSITAT POMPEU FABRA - SPAIN

OSSIDIAN TECHNOLOGIES LIMITED - ÉIRE/IRELAND

CASON MERNOKI ZARTKORUEN MUKODO RES - HUNGARY

TRITECH TECHNOLOGY AB - SWEDEN

MALTA INDUSTRIAL INNOVATION FOR SMES LIMITED - MALTA

LOWRI BECK SYSTEMS LIMITED - UNITED KINGDOM

MESHWORKS WIRELESS OY - SUOMI/FINLAND

JCB. ELECTROMECHANICA SL - SPAIN

WATER SERVICES CORPORATION - WSC - MALTA

SOFT & CONTROL TECHNOLOGY SRO - SLOVAKIA

Project Description: Ultra-low power wireless sensor network for metering applications. Meter reading forms the backbone of home water and gas billing systems. Incorrect meter readings cause a chain of events that increase costs and create customer dissatisfaction. In fact, measurement faults are one the main causes for the mismatch in supply and consumption of water and gas in the EU.

Project Objectives: The aim of the SyncSen project is to provide gas and water utility companies with a secure remote meter reading solution to increase company competitiveness and customer satisfaction. Electrical energy is typically not available for automatic meter reading of gas and water supplies. To deal with this matter, the SyncSen automated meter reading (AMR) technology uses cost-effective, ultra-low power consumption, wireless technology and a novel hardware and software approach. It addresses the special needs of gas and water utilities, providing a remote metering solution which is independent of the electricity infrastructure.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

TRANSCOSME

Project ID: 218878

Project Title: Transnational Co-operation of the network of NCP SME

Project website: N/A

Project Start Date: 2008-02-01

Project End Date: 2012-12-31

Project Total Cost: EUR 2 622 051.9

Project EC Financial Contribution: EUR 2 367 397

Slovak participant Name: BIC BRATISLAVA. SPOL. S.R.O.

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Partners of the Consortium:

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 TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU - TURKEY
 BETA TECHNOLOGY LTD - UNITED KINGDOM
 THE ICELANDIC CENTRE FOR RESEARCH - ICELAND
 VEREIN EURESEARCH - SWITZERLAND
 MINISTARSTVO ZNANOSTI, OBRAZOVANJA I SPORTA (ENGL. MINISTRY OF SCIENCE, EDUCATION AND SPORTS) - CROATIA
 RESEARCH PROMOTION FOUNDATION - CYPRUS
 OESTERREICHISCHE FORSCHUNGSFOERDERUNGSGESELLSCHAFT MBH - AUSTRIA
 BULGARIAN CHAMBER OF COMMERCE AND INDUSTRY - BULGARIA
 EUROPEAN CENTER FOR DEVELOPMENT, EXECUTION AND MANAGEMENT OF PROJECTS - BULGARIA
 ENTERPRISE IRELAND - ÉIRE/IRELAND
 MINISTRSTVO ZA VISOKO SOLSTVO, ZNANOST IN TEHNOLOGIJO - SLOVENIA
 FUNDACAO PARA A CIENCIA E A TECNOLOGIA - PORTUGAL
 UNION WALLONNE DES ENTREPRISES ASBL - BELGIUM
 MOKSLO INOVACIJU IR TECHNOLOGIJU AGENTURA - LITHUANIA
 OSEO SA - FRANCE
 MINISTERIO DE ECONOMIA Y COMPETITIVIDAD - SPAIN
 ETTEVÖTLUSE ARENDAMISE SIHTASUTUS (ENTERPRISE ESTONIA) - ESTONIA
 AUTORITATEA NATIONALA PENTRU CERCETARE STIINTIFICA - NATIONAL AUTHORITY FOR SCIENTIFIC RESEARCH - ROMANIA
 MINISTERIO DE CIENCIA E INNOVACION - SPAIN
 HRVATSKI INSTITUT ZA TEHNOLOGIJU - CROATIA
 AGÊNCIA DE INOVAÇÃO, INOVAÇÃO EMPRESARIAL E TRANSFERÊNCIA DE TECNOLOGIAS - PORTUGAL
 FORSKNINGS- OG INNOVATIONSTYRELSSEN (DANISH AGENCY FOR SCIENCE, TECHNOLOGY AND INNOVATION) - DENMARK
 INSTYTUT PODSTAWOWYCH PROBLEMOW TECHNIKI POLSKIEJ AKADEMII NAUK - POLAND
 MATIMOP, ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT - ISRAEL
 AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA - ITALY
 CENTRO PARA EL DESARROLLO TECNOLÓGICO INDUSTRIAL - SPAIN
 TEKES-TEKNOLOGIAN JA INNOVAATIOIDEN KEHITTAEMISKESKUS - SUOMI/FINLAND
 NEMZETI INNOVACIOS HIVATAL - HUNGARY
 NORGES FORSKNINGSRAD - NORWAY
 OSEO INNOVATION - FRANCE

AGENCE BRUXELLOISE POUR L'ENTREPRISE - BELGIUM
 LATVIJAS TEHNOLOGISKAIS CENTRS NODIBINAJUMS - LATVIA
 VERKET FÖR INNOVATIONSSYSTEM - SWEDEN
 GIS-TRANSFERCENTER FOUNDATION - BULGARIA
 MINISTERIE VAN ECONOMISCHE ZAKEN - NETHERLANDS
 TECHNOLOGICKE CENTRUM AKADEMIE VED CESKE REPUBLIKY - CZECH REPUBLIC
 HELLENIC ORGANIZATION FOR SMALL AND MEDIUM SIZE ENTREPRISES AND HANDICRAFT SA - GREECE
 LUXINNOVATION GIE - LUXEMBOURG (GRAND-DUCHÉ)
 OFFICE OF THE PRIME MINISTER - MALTA

BIC BRATISLAVA. SPOL. S.R.O.- SLOVAKIA

Project Description: The TranCoSME project intends to support the European network of National Contact Points for the SME-specific measures of the 7th Framework Programme (NCP SME) in their support to proposers in their respective countries.



Project Objectives: The objectives are to deliver a better quality of service, to increase the efficiency of work, and to enhance the networking between the NCPs in Europe. These goals will be achieved by training measures and by setting up tools which help NCP SME during all steps of their daily work, from identifying innovative SMEs, over partner search, to proposal writing. The tools and trainings will be provided by a core group of experienced and well-motivated NCP SME. The trainings, the communication platform and the partner search tool will form a stable and sustainable support to NCP SME, enhancing the cooperation between organisations from all over Europe. The background objective of the project is to raise the quality of proposals submitted in the SME-specific measures of FP7, and to increase the quality of consortia. The countries that all consortium partners come from cover the whole EU and all FP7-associated countries, with 36 partners. The duration of the project is expected to be 36 months (3 years).

Profile of Slovak Participant/ -s: BIC Bratislava was established in 1991 as the first Business and Innovation Centre in the Central and Eastern Europe. Since then, BIC Bratislava became a leading expert organisation for entrepreneurial support, internationalisation of businesses, innovation, research and regional development in Slovakia. BIC Bratislava actively cooperates with public and private stakeholders in Slovakia and the EU, supporting the business, research and innovation.

The main activities of BIC Bratislava: development of innovative businesses (BIC Bratislava hosted the first incubator in Slovakia); support of the public-private (academia-industry) partnerships; supporting innovation and trans-national technological cooperation in Slovakia, as a coordinator of Enterprise Europe Network in Slovakia (2008-2014) and Innovation Relay Centres (1997-2008); formulation of the Regional Innovation Strategies for 4 out of the 8 Slovak regions (Bratislava, Trnava, Nitra and Presov), and development of the RIS 3 for the Bratislava Region (Smart Specialization Strategy), and the National Innovation Strategy S3; building the innovation and technology transfer infrastructure; active membership in national and international networks for research and innovation; analysis and development of financial and non-financial tools for supporting the innovative companies; NCP for Innovation in SME and Access to Risk Finance in Horizon 2020; hosting the NCPs for innovation and SME issues in FP7 and FP5; delivering the Economic and Technological Intelligence projects in FP5/FP6. BIC Bratislava has a long experience in leading and participating in the EU projects focused on research and innovation (more than 50 projects funded by FP4-FP7, CIP, Central Europe Programme 2007-2013, PHARE, IVF from which 10 was coordinated by BIC Bratislava).

SK Participant Project Cost: EUR 5 607.48

SK Participant EC Financial Contribution: EUR 5 000

Project Outcomes planned/real: Since its beginning in February 2008, the project has provided a considerable improvement in the quality of work of the SME NCPs in the FP7. The main successful achievements of the project were: (1) Interaction and exchange of experience between the SME NCPs of the countries involved; (2) Usage of tools developed in the course of the TransCoSME project, such as the partner search for example proposal etc., and (3) Implementation of training workshops and networking meetings for the benefit of all of SME

NCPs. The Enterprise Europe Network and the network of National Contact Points were both established in 2008. A number of various organisations are involved in both of them, or are closely linked to the NCPs through the related activities/target groups of the two networks. This is obviously the case in the field of SME, with the specific responsibility for the programme "Research for the Benefit of SME".

Slovak Participant's Role in Project: Being in the position of National Contact Point and coordinator of the Enterprise Europe Network in Slovakia, BIC Bratislava took part in the project in order to increase competences of the NCP by mutual learning, to increase the quality of services provided to local SMEs (as potential beneficiaries for the Research for the benefit of SMEs in FP7), to support cooperation between Enterprise Europe Network and SME NCPs. BIC Bratislava participated in interaction and exchange of experience between the SME NCPs and training workshop, and networking meeting organised for SME NCPs.

URBAN SENSING

Project ID: 314887

Project Title: Urban Sensing through User Generated Contents

Project website: <http://urban-sensing.eu/>

Project Start Date: 2012-01-12

Project End Date: 2014-09-30

Project Total Cost: EUR 1 436 092.4

Project EC Financial Contribution: EUR 1 140 734.8

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice (TUKE)

Slovak participant address: Letná 9, 042 00 Košice

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+421-55-602 3259

Partners of the Consortium:

ACCURAT SRL - ITALY

T-CONNECT S.R.L. - ITALY

LUST BV - NETHERLANDS

ASSOCIATION FOR THE PROMOTION OF INFORMATION ON SCIENCE AND TECHNOLOGY FOR ALL COUNTRIES - FRANCE

MOBIGUO SL - SPAIN

TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice (TUKE) - SLOVAKIA

Project Description: The UrbanSensing project will bring a new product to the urban design, city planning and urban management market: a platform extracting patterns of use and citizens' perceptions, related to or concerning city spaces, through a robust analysis of User Generated Content (UGC), shared by the city users and inhabitants through social networks and digital media. The platform will allow analysing users' perceptions related to specific geographic areas, and understand how population reacts to new urban policies within participatory mechanisms. It also gives an insight into the lack of structures offered by institutions and city administrations and proposes interventions within collaborative frameworks, and tries to discover possible emergent structures and bottom-up initiatives, responding to uncovered needs and desires. Next to this, it will help to understand how specific user groups use public spaces, and, for instance, identify locations suitable for design interventions.

Project Objectives: The project aims at bringing a new product to the urban design, city planning and urban management market: a platform extracting patterns of use and citizens' perceptions related or concerning city spaces, through a robust analysis of User Generated Content (UGC), shared by the city users and inhabitants through social networks and digital media.

Traditional data collection methods - such as surveys, interviews and ethnographic observations have some limitations: high cost in terms of time and resources, and limited size of the samples they can generally cover. More recently, methods based on real-time data and web harvesting have been adopted, but a focus on their spatial and temporal dimension is still lacking.

Now, it is time to experiment with new methods, which are made possible by the fact that an increasingly high number of citizens can produce and share geolocalized information

about their everyday life experience on searchable social platforms such as Twitter, Facebook, Foursquare etc. Applying text mining and conversation analysis to geolocalized UGC Urban Sensing will provide meaningful indexes and dynamic maps, depicting citizens' shared perceptions, emotions, hints and opinions regarding public services, urban spaces, time-based events, and the city as a whole. A set of visualisation tools, targeting the needs of the involved SMEs, provide interaction with these maps and indexes. Based on the specific needs of the SMEs, a wide range of indicators will be defined and validated through iterative tests, to be performed in 3 different countries. It will provide an insight into understanding how public policies, spatial interventions, events and transformations are perceived within a city, and at the same time, it will give hints to designers, developers and entrepreneurs adopting a more human-centred approach toward our cities evolution. Urban Sensing can also be the basis for building innovative services, based on distinct local spatial and temporal intelligence.

*UrbanSensing

Profile of Slovak Participant/ -s: Technical University of Kosice (TUKE) consists of nine faculties with around 16 000 full-time undergraduate students. It has 900 member of academic and the same number of research and administrative staff. Technical University of Kosice is the driver of ICT innovation and development in the Slovakia region. The main faculties related to the business, innovation and networked economy are the Faculty of Economics, Engineering and Informatics and BERG. Their research projects (5,6,7RP) focus on business networking, socio-economic analysis of ICT impact, e-business, trust building in the business networks, knowledge management, web technologies, logistics, eGovernment and regional development. The mission of TUKE is to provide its environment with scientific and technological knowledge basis, innovation and workforce, in order to form a beneficial and sustainable future and a high quality of life. This will be achieved at TUKE by innovative research and excellent education in all scientific branches of respective University Faculties. Because of our scientific excellence, we are the most successful organization in FPx projects in Slovakia, esp. in IST. TUKE is active in knowledge transfer, regional development and influencing public life through participation in several clusters and associations, esp. IT Valley, CEIT, ALADIN, etc. or in very close cooperation with self-governing region, regional municipalities, ministries, chambers of commerce and relevant regional and national stakeholders.

SK Participant Project Cost: EUR 0

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: Platform extracting patterns of use and citizens' perceptions related or concerning city spaces, through a robust analysis of User Generated Content

Slovak Participant's Role in Project: Analysis of user generated content on social networks, sentiment analysis.

WELD-IT

Project ID: 262580

Project Title: Welding Process Planning and Parametric Pricing Software Solution for SMEs

Project website: <http://www.weldit.eu/>

Project Start Date: 2010-11-01

Project End Date: 2012-12-31

Project Total Cost: EUR 1 369 602.2

Project EC Financial Contribution: EUR 1 034 895

Slovak participant Name: FIRST WELDING COMPANY, Inc. PRVA ZVARACSKA a. s.

Slovak participant address: Kopčianska 14, 851 01 Bratislava

Contact person email/ phone: Ing. František Kolenič, PhD., E-mail: kolenic.frantisek@pzvar.sk, Tel: +421268262103, Dr. Štefan Cimbák, cimbak.stefan@pzvar.sk, +421 2 68 262 108

Partners of the Consortium:

MFKK FELTALALOI ES KUTATO KOZPONT SZOLGALTATO KFT - HUNGARY

SUDOTIM AS SRL - ROMANIA

G-I FLEX SZERSZAMGYARTO KORLATOLT FELELOSSEGU TARSASAG - HUNGARY

TWI LIMITED - UNITED KINGDOM

NEMETSCHKE OOD - BULGARIA

INFOTRON ELEKTRONIK VE BILGISAYAR SISTEMLERI URETIM VE TICARET AS - TURKEY

FIRST WELDING COMPANY, Inc. PRVA ZVARACSKA a. s. - SLOVAKIA

Project Description and Objectives: WELD-IT is a tool that enables welding companies to price, plan and manage welding projects in a fast, cost-effective, flexible and sophisticated way, by providing them with otherwise hardly accessible welding expertise. Being a knowledge-based, "assistive" tool, it supports welding engineers and technicians in pricing, and defining the optimal welding processes for a fabrication, by taking into account the most relevant parameters/information: project requirements and specifications, customer preferences, manufacturing capabilities, resource allocation, standards and best practices.

Profile of Slovak Participant/ -s: PRVÁ ZVÁRAČSKÁ, a. s. (PZVAR) is a private research, development and production company dealing with welding. The company employs about 50 researchers in research laboratories of welding technologies and material research. The core activities include research and development of welding processes and material surfacing using laser, electron beam and arc. The company provides services and expertise in welding for industry. The main customers are the automotive industry, mechanical engineering, power engineering. The company closely cooperates in scientific and technical matters with technical universities and several important research institutions at home and abroad.



SK Participant Project Cost: EUR 318 334

SK Participant EC Financial Contribution: EUR 234 268.3

Project Outcomes planned/real: The main outcome of the project is a software tool which enables welding companies to price, plan and manage welding process in a fast, cost-effective, flexible and sophisticated way, by providing them hardly accessible expertise regarding welding. This knowledge-based, assistive tool supports welding engineers and technicians in pricing and defining the optimal welding processes for a fabrication, by taking into account the most relevant parameters: project requirements and specifications, customer preferences, manufacturing capabilities, resource allocation, standards and best practices. SME partners in the project will use the project outcomes in their own activities, and they are prepared to sell the software tool on the market, especially to innovative SMEs that are keen to reduce their dependence on the sole experience of individuals, increase their competitiveness, and play an increasingly significant part in the steadily growing European welding market.

Slovak Participant's Role in Project: PZVAR participated in the project as a member of the SME consortium which is an end-user and the owner of the project results. PZVAR, as an expert in welding technologies, was involved in defining detailed technical specifications and pre-requisites within market research and system specification. It also participated in the prototype designing and testing of the main project outcomes, and provided expertise during the development of the decision supporting system. PZVAR has had a leading role in exploitation activities of the project outcomes within the SME consortium as an Exploitation Manager.

4. Specific programme **CAPACITIES**

4.3 Regions of knowledge - (REGIONS)



BIOCLUS

Project ID: 245438
Project Title: BIOCLUS—Developing Innovation and Research Environment in five European Regions in the field of Sustainable Use of Biomass Resources
Project website: <http://www.jamk.fi/en/Home/>
Project Start Date: 2009-12-01
Project End Date: 2012-11-30
Project Total Cost: EUR 3 585 941.38
Project EC Financial Contribution: EUR 2 851 200

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SLOVAK PARTICIPANT 2

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SLOVAK PARTICIPANT 3

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SLOVAK PARTICIPANT 4

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INSTYTUT TECHNOLOGICZNO-PRZYRODNICZY - POLAND
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www.bioclus.eu

Developing Research and Innovation Environment

Project Description: BIOCLUS Developing Research and Innovation Environment in five European Regions in the field of Sustainable Use of Biomass Sources, is a project that aims to expand the use of biomass in West Macedonia in an efficient and sustainable way.

Project Objectives: The BIOCLUS objective is to boost the regional competitiveness and growth in five European cluster regions: Wielkopolska (Poland), Slovakia, Western Macedonia (Greece), Navarre (Spain) and Central Finland. The project promotes collaboration and integration, and supports the sustainable development of research related communities by promoting expertise competence at the cluster and consortium level, developing collaboration capabilities within each cluster and at the consortium level, and by improving business environment innovation through mutual learning and mentoring. The BIOCLUS clusters are located in rural regions and all possess great biomass resources, such as forests, industrial and agricultural by-products, field crops and municipal wastes. The biomasses are challenging raw material, and utilisation chains require special technical and practical competence and applications. However, the global trend is that renewable resources should replace non-renewable ones, and resource use should be efficient and sustainable. Therefore, the clusters aim to improve the RTD activities and innovation system development. Furthermore, biomass related activities cannot be totally outsourced. This means that biomass resources offer a great possibility to the BIOCLUS regions in promoting regional prosperity both in economic and social terms. The project implementation is supported by advantageous Quality Management system and proper Communication Management. Besides, it is ensured with appropriate Conflict Management and Risk Management. In the areas of expertise and experience with biomass related activities and innovation system development, the Dissemination Strategy ensures proper interaction and information dissemination among both the stakeholders and the public.



SPECIFIC PROGRAMME CAPACITIES

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: BIC Bratislava was established in 1991 as the first Business and Innovation Centre in the Central and Eastern Europe. Since then BIC Bratislava became a leading expert organisation for entrepreneurial support, internationalisation of businesses, innovation, research and regional development in Slovakia. BIC Bratislava actively cooperates with public and private stakeholders in Slovakia and the EU, supporting the business, research and innovation. The main activities of BIC Bratislava: development of innovative business (BIC Bratislava hosted the first incubator in Slovakia); support of the public-private (academia-industry) partnerships; supporting innovation and trans-national technological cooperation in Slovakia as a coordinator of Enterprise Europe Network in Slovakia (2008-2014) and Innovation Relay Centres (1997-2008); formulation of the Regional Innovation Strategies for 4 out of the 8 Slovak regions (Bratislava, Trnava, Nitra and Presov), and development of the RIS 3 for the Bratislava Region (Smart Specialization Strategy) and the National Innovation Strategy S3; building the innovation and technology transfer infrastructure; active membership in national and international networks for research and innovation; analysis and development of financial and non-financial tools for supporting the innovative companies; NCP for Innovation in SME and Access to Risk Finance in Horizon 2020; hosting the NCPs for innovation and SME issues in FP7 and FP5; delivering the Economic and Technological Intelligence projects in FP5/FP6. BIC Bratislava has a long experience in leading and participating in the EU projects focused on research and innovation (more than 50 projects funded by FP4-FP7, CIP, Central Europe Programme 2007-2013, PHARE, IVF from which 10 was coordinated by BIC Bratislava).

SK Participant Project Cost: EUR 48 500

SK Participant EC Financial Contribution: EUR 43 300

Project Outcomes planned/real: The BIOCLUS objective was to boost the regional competitiveness and growth in five European cluster regions: Central Finland, Navarre (Spain), Western Macedonia (Greece), Slovakia and Wielkopolska (Poland), through the creation and implementation of the Joint Action Plan for the research-based clusters. The project promotes collaboration and integration of cluster regions, and strengthens the innovation environment by improving research potential and innovation management. Besides, the project supports sustainable development by improving the use of biomass resources. The development is achieved by: 1) Promoting scientific, strategic and business competence at cluster and consortium level, 2) Developing collaboration capabilities in the clusters and consortium level, and 3) Improving innovation to business environment by mutual learning and by mentoring.

SPECIFIC PROGRAMME CAPACITIES

Slovak Participant's Role in Project: The activities of BIC Bratislava were focused on analysis of business potential in the field of sustainable use of biomass resources; participation in elaboration of Joint Action Plans for regional clusters; improving regional collaboration and strengthening competence at cluster level (incl. organisation of regional level JAP facilitation workshop); expert support for improving the use of RTD facilities at regional and international level; mentoring & mutual learning plans for the BIOCLUS regions (especially in the field of innovation management, regional approach for R&I, cluster development); participation in the mentoring & mutual learning platform and cluster activity promotion.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Company QUERCUS, Ltd. was founded in 1994, and nowadays it is the largest processor, manufacturer and exporter of oak tree products in Slovakia. Its main business activity is wood processing and production of semi-finished products, as well as of final products from deciduous trees. We are a significant supplier of the largest wood flooring companies in Western and Northern Europe. From 2012, we have been actively building retail sales of our products. Our goal is to offer our customers the finest, high value added products, from quality materials.

SK Participant Project Cost: EUR 48 360

SK Participant EC Financial Contribution: EUR 43 121

Project Outcomes planned/real: The project contributed to the analysis and subsequent implementation of the biomass renewable resources utilization across Europe. In Slovakia, state of the art pellet production has been successfully established. The products are highly demanded and production will be soon further enlarged.

Slovak Participant's Role in Project: QUERCUS, Ltd. was directly involved as a partner responsible for the implementation of the ongoing results of the project. Outcomes of the biomass analysis were utilized in the production process of wooden pellets. Oak and beech were assessed as a valuable source of timber. Properties of pellets produced from these species were determined and evaluated. The whole process enhanced the quality of final product and ensured a long term sustainability of the production.

SPECIFIC PROGRAMME CAPACITIES



SLOVAK PARTICIPANT 3

Profile of Slovak Participant/ -s: The state enterprise Forests of the Slovak Republic (LESY SR), Banská Bystrica, continues the rich and long forestry traditions in Slovakia. Based on the Decree of the Ministry of Agriculture, the enterprise was established on July 1, 1999, by merging 6 former regional state forest enterprises. The main scope of activities of the state enterprise LESY SR Banská Bystrica is to manage forests and other property in the ownership of the Slovak Republic. It provides a balanced fulfilment of all functions of forests, and a sustainable use of tangible and intangible products and services provided by the forests. The main objective of the state enterprise LESY SR is to provide sustainable management of forests in the ownership of state and other forest owners, so that an increased functionality and maximal positive management effects can be achieved.

The participant Forests of the Slovak Republic, state enterprise has rich experience with national, international and cross-border projects within forestry and various forestry activities, e.g., revitalization of damaged forest stands, projects of fire protection, forest roads and dams, and other projects mainly aimed at the public.

SK Participant Project Cost: EUR 27 840

SK Participant EC Financial Contribution: EUR 24 824

Project Outcomes planned/real: The BIOCLUS project strengthened the regional research driven clusters by targeting the sustainable use of biomass, improved integration and cooperation, and increased learning and innovation development, as well as supported regional development. The real outcomes corresponded to planned ones, and provided regional benefits in environmental, economic and social terms, developed the innovation systems and increased the competitiveness of the BIOCLUS regions. BIOCLUS supported ERA and creation of the European research networks in the field of biomass resources related sciences, and supported sustainable and multi-functional use of biomasses. SWOTs, Strategic Research Agendas and Joint Action Plans were produced.

Slovak Participant's Role in Project: Contribution to all project WPs, implementation of project planned activities, strengthening of the existing links and initiation of new partnerships, promotion of crosscutting research within the forest clusters, aiming at general objectives for forest sector development.

SLOVAK PARTICIPANT 4

Profile of Slovak Participant/ -s: NCL is a semi-budgetary forestry agency, established by the SR Ministry of Agriculture on 1 January 2006. The Centre reports directly to the Department of Forestry and Wood-processing of the MASR. Its duties and powers are prescribed by statute No 6481/2005-250 from 22 November 2005, amended by the Decision No 1549/2007-250 from 19 March 2007, and Decision No 3632/2007-250 from 23 August 2007.

SK Participant Project Cost: EUR 341 490

SK Participant EC Financial Contribution: EUR 297 385

Project Outcomes planned/real: The BIOCLUS project strengthened the regional research driven clusters, targeting the sustainable use of biomass, improved integration and cooperation, increased learning and innovation development, as well as supported the regional development. The real outcomes corresponded to planned ones, and provided regional benefits in environmental, economic and social terms, developed the innovation systems and increased the competitiveness of the BIOCLUS regions. BIOCLUS supported ERA and creation of the European research networks in the field of biomass resources related sciences, and supported sustainable and multi-functional use of biomasses. SWOTs, Strategic Research Agendas and Joint Action Plans were produced.

Slovak Participant's Role in Project: NFC-FRI: WP5 leader (Improving Regional Innovation Systems by Benchmarking, Mentoring and Mutual Learning), Coordination and promotion of the networking innovation systems process in the BIOCLUS cluster regions, and innovation related cooperation between the cluster regions, Active contribution and activities within all WPs; Analysis of State of Play and Creation of Regional Strategic Research Agendas, Joint Action Plan Production, Capacity Building - Strengthening of the competence of the cluster regions by fostering expertise, and improving regional and transnational cooperation, Communication and Dissemination process.

CERADA

Project ID: 230017

Project Title: CERADA - Central European Research and Development Area

Project website: <http://www.cerada.org/>

Project Start Date: 2009-03-01

Project End Date: 2011-04-30

Project Total Cost: EUR 648 853.2

Project EC Financial Contribution: EUR 587 173.2

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SLOVAK PARTICIPANT 3

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UNIVERZITA TOMASE BATI VE ZLINE - CZECH REPUBLIC
MORAVSKOSLEZSKY AUTOMOBILOVY KLASTRO - CZECH REPUBLIC
PERA INNOVATION LIMITED - UNITED KINGDOM
PLASTIKARSKY KLASTR - CZECH REPUBLIC
VYSOKA SKOLA BANSKA - TECHNICKA UNIVERZITA OSTRAVA - CZECH REPUBLIC
UNIWERSYTET EKONOMICZNY W KATOWICACH - POLAND
GORNOSLASKA AGENCJA ROZWOJU REGIONALNEGO S.A. - POLAND
GORNOSLASKA AGENCJA PRZEKSZTALCEN PRZEDSIEBIORSTW SA - POLAND
CEIT TECHNICAL INNOVATION, S.R.O. - SLOVAKIA
VEDECKO-TECHNOLOGICKY PARK ZILINA, SCIENCE AND TECHNOLOGY PARK ZILINA - SLOVAKIA
ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA - SLOVAKIA

Project Description: Central European Research and Development Area (CERADA) is a project funded by the Seventh Framework Programme of the European Commission.

The Project is focused on: the creation of links between regional authorities, research and business entities, the support of clustering activities, an effective use of private, national and European Funds in planning and supporting RTD investments in the cross-border regions, common interests in the automotive and aviation industry, the development of research profile of the cross-border regions and technological development activities, with respect to regional and sector needs.



Project Objectives: The purpose of the project is: - The recognized need of more effective supporting system of the R&D sector, focused on the significant, traditional and developing industrial sector in the Regions, transport devices (the automotive and aviation industry) and material research available in the CERADA cross-border region. The joint needs, capacities and potentials and communication tools have to be institutionalized in an acceptable and effective form, which those submitting deem to be a supporting system for clustering initiatives in R&D. The barriers which resulted in low industry involvement in R&D, which exist in all sectors; scientific, educational, social and business, have to be removed through the projects' impetus concerned Regions. This also applies to the historical barriers in the cross-border region. The absence of communication and coordination among the regions in planning and supporting large investment in new RTD facilities, especially with respect to the effective use of private, national and European Funds, especially Structural Funds available in the particular Countries and Regions.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 32 610

SK Participant EC Financial Contribution: EUR 29 077.25

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: VTPZ is a private, non-profit corporation of legal entities (Central Slovakian Energetic, C.L.E.A., Trade Union, Electrotechnology Industry Association of Slovak Republic, The University of Zilina, the Municipality of Zilina, Zilina Foundation), supporting more than 45 SMEs within the North West region of the Slovak Republic, based on the idea of innovation, technology transfer and know-how utilization, that meets the aspects of modern development of entrepreneurial activities.

To realize this idea involves a close and intensive co-operation with the University of Zilina, regional public bodies, business associations, the bank sector, and regional SMEs.

Among services offered to the newly founded SMEs are establishment of a Business Technology incubator, as a help for starting businesses, and an up-to-date expertise and knowledge transfer from higher education environment into entrepreneurial sector.

Services provided to already existing SMEs involve technology transfer for innovation dissemination, establishing business centre for foreign investment development, a counselling centre for economic development stimulation, and an information point with network and stakeholders database.



SK Participant Project Cost: EUR 47 535.6

SK Participant EC Financial Contribution: EUR 43 035.91

Project Outcomes planned/real: Links between regional authorities, research and business entities in the CERADA region and the support of clustering activities. Effective use of private, national and European Funds in planning and supporting RTD investments in the cross-border region. Focus on topics of common interests in the automotive and aviation industry. Developed research profile of the cross-border region with the guidance of the mentor. CERADA joint the action plan focused on research and technological development activities with respect to regional and sectoral needs. The plan in R&D will be defined through the project's implementation in the concerned Regions. All tasks and deliverables have been achieved.

Slovak Participant's Role in Project: VTP Žilina was responsible for work package 2.

The WP2 covers the area of charting the existing regional situation, regarding data and documents; services, facilities, invention & information flows and interactions on the supply side of the research and development activities in the region; To identify and evaluate the available data and documents—existing regional strategies focused on, or with references to the RTD transport devices sector and the material research sector.

To lists the RTD private and public actors with an existing or potential activity in the sector.

To identify and understand the regional state-of-the-art, in terms of their capacity to produce, transfer and use knowledge in the focused sector, especially to describe R&D capacities with regard to their exploitation for applications in transport device sector.

To analyse supply-demand matching and economic development needs, influencing the transport devices sector and material research.

To denominate imbalance factors

To design mechanisms which will facilitate the identification of possible improvement.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: The University of Zilina, established in 1953 as a public university, provides education at all three levels of higher education, in both full-time and part-time forms. With its more than a half century history dedicated to mostly technology oriented education and research, the University has taken a prominent place in the Slovak educational and research space, not only with the number of its students, the range of accredited study programmes, but also with its scientific and foreign activities, based on cooperation with domestic and foreign companies and institutions. The main focus of the University research, education and innovation, is oriented towards transport, communications, electrical and mechanical engineering, civil engineering, safety and security, information and communication technologies, economics, and in recent years also towards the humanities and environmental issues. The university staff has been involved in completing more than 150 scientific and research projects, financially supported through national and international grant schemes.

Recently, the scientific teams of the University have been involved in twenty-three EU 7th Framework Programme projects. These teams closely cooperate with partners from various industrial branches in the applied research through six Centres of excellence, supported via the Operational Programme "Research and Development" in the framework of European Structural Funds, and further, closer cooperation with the industries is achieved through four Centres of competence and three Centres for applied research. Their achievements are presented mainly through publication activities, submitted patent applications, presentations at international scientific symposiums, conferences, trade fairs and exhibitions.

SK Participant Project Cost: EUR 47 858.8

SK Participant EC Financial Contribution: EUR 44 276.13

Project Outcomes planned/real: (*) - Links between regional authorities, research and business entities in the CERADA region and the support of clustering activities.

- Effective use of private, national and European Funds in planning and supporting RTD investments in the cross-border region.

- Focus on topics of common interests in the automotive and aviation field.

- Developed research profile of the cross-border region, with the guidance of the mentor.

- CERADA joint action plan, focused on research and technological development activities, with respect to regional and sectoral needs.

- The Plan in R&D will be defined through the project's implementation in the concerned Regions.//

- Desk research of the regional strategies with some relation to the R&D Sector – Analytic summary (deliverable 2.1), to identify and evaluate the exploitable data and available documents— existing regional strategies focused on, or with reference to RTD transport devices sector and material research sector, including more than 150 research profiles, more than 800 partnerships, a user friendly interface and functionality.

- Database of regional R&D actors – Lists (deliverable 2.2) to list the RTD private and public actors, with an existing or potential future activity in the sector.

- The catalogue of R&D capacities (research profiles) of regional research institutions (deliverable 2.3), to identify and understand the regional state-of-the-art in terms of their capacity to produce, transfer and use knowledge in the focused sector, i.e., especially to describe the R&D capacities with regard to their exploitation for applications in transport device sector.

- Summary survey and analysis of the regional R&D supply side – Document incl. SWOT analysis (deliverable 2.4), to analyse supply-demand matching and economic development needs, influencing the transport devices sector and material research.

- Methodology (deliverable 4.1), the documentation describing the process of building up CERADA joint space has been elaborated.

- Building a team of trained and motivated Technology Transfer professionals and RTD project managers and conciliators with international background and skills.

- Moderating open discussions addressing SMEs, global industries and RTD organisations, both private and academic, to work together - through seminars, workshops, expert meetings and conferences.



Slovak Participant's Role in Project: Beneficiary of the project - analysing the regional situation in the field of R&D Sector, executing desk research of the regional strategies with some relation to the R&D, Analytic summary, Creating database of regional R&D actors, Creating Catalogue of R&D capacities (research profiles) of regional research institutions, summary survey and analysis of the regional R&D supply side - SWOT analyse, analysing the needs of experts and knowledge missing in the regional market and demanded by the SMEs and companies, selection of professionals for training of RTD managers and knowledge and technology transfer professionals in Great Britain, identification of new tools and approaches and specification of core activities, organisation of CERADA Workshop for identification of future projects for the Joint Action Plan.

CITT

Project ID: 207015

Project Title: Centrope ICT Technology Transfer Project

Project website:

Project Start Date: 2008-01-01

Project End Date: 2010-03-31

Project Total Cost: EUR 923 420.44

Project EC Financial Contribution: EUR 825 000

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MICHAEL NOVAK CECONSULT - AUSTRIA

ZDRUZENIE BITERAP, BITERAP - a cluster of IT companies- SLOVAKIA

Project Description: The co-operation within the Central European region called Centrope – the bordering regions of Austria, Czech Republic, Hungary and Slovakia - should trigger challenges and broaden the circle of experts, to build a region that will become a model for the European integration process. The project CITT triggers challenges in the ICT sector, by providing a strategy to improve technology transfer between the business and research communities within the Centrope region, in order to support its growth.

The project's background consists of several key elements of research driven sectors, which weaken a knowledge driven economy:

- Lack of relevant information and awareness on the side of policy makers, especially at regional level, and therefore limited commitment and/or engagement to implement new policy tools.
- Centralised system, which often does not reflect regional specification.
- Barriers in the interaction between business and academia.

Project Objectives: In order to overcome national, institutional and conceptual problems linked to technology transfer in digital technologies, the aim of this project is to demonstrate their viability in best practice examples and to offer a strategy within defined regional limits which should, however, be able to be scaled-up to the benefit of the entire Union. Simultaneously, the project will identify relevant players in the ICT industry and R&D, which, so far, have not been categorised in this way. A database containing such information will represent a unique resource, valuable to (Central) Europe's economy. The project partners will provide solutions for improved technology transfer between the research and business communities, as well as for mentoring and coaching of the research and business communities (based on mutual approach). Thus, the project tries to overcome the increased competition for the same resources in the globalised economy. Experience in the Centrope region has shown that cross-border cooperation provides an ideal impulse for further development of the area, and for further strengthening of its position in the global market. Creating a strategy for a cross-border ICT network will provide a support for a dynamic development of the region, as the national borders are losing their significance.

Profile of Slovak Participant/ -s: cluster BITERAP, Košice, Popradská 68, IT cluster aimed to provide ITC support for state and public administration.

SK Participant Project Cost: EUR 214 800

SK Participant EC Financial Contribution: EUR 191 660

Project Outcomes planned/real: Development of IT tool to boost the exchange of sensitive information between resources (universities, research) and consumers, in order to help the innovation.

Slovak Participant's Role in Project: design of concept, building the infrastructure, development of ICT solution, testing, operating the UCT tool within the timeframe of the project, training of project partners

ERDC

Project ID: 202855

Project Title: Emergence of Research Driven Clusters in Central Europe

Project website: <http://www.bic.sk/>

Project Start Date: 2008-06-01

Project End Date: 2010-05-31

Project Total Cost: EUR 212 598.14

Project EC Financial Contribution: EUR 190 000

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SLOVAK PARTICIPANT 6

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SLOVAK PARTICIPANT 7

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USTAV MATERIALOV A MECHANIKY STROJOV SLOVENSKEJ AKADEMIE VIED, INSTITUTE OF MATERIALS & MACHINE MECHANICS SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA)- SLOVAKIA

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MESTO TRNAVA, TRNAVA CITY- SLOVAKIA

ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA- SLOVAKIA

Project Description: N/A

Project Objectives: The project aims to contribute to the development of research driven clusters in Europe, with specific focus on convergence regions in central Europe. The objectives of the project are:

- Development of a methodology for establishment of research driven clusters in new member states in the Central European region, and in other convergence regions;
- Dissemination of the developed methodology throughout the European convergence regions, and establishment of a research driven cluster in Slovakia, focused on a specific sector.

The project will consist of an analytical part, carried out in the specific region; targeted activities will be carried out in order to launch research driven cluster in the region. Based on local experience, the methodology of research driven cluster- establishment in convergence regions will be prepared for dissemination in other convergence regions in Europe. In the framework of the project, workshops will be carried out in 4 Central European countries, in order to collect feedback on proposed methodology, and Central European dissemination event will be organized, to present final methodology of the project.



SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: BIC Bratislava was established in 1991 as the first Business and Innovation Centre in the Central and Eastern Europe. Since then, BIC Bratislava became a leading expert organisation for entrepreneurial support, internationalisation of businesses, innovation, research and regional development in Slovakia. BIC Bratislava actively cooperates with public and private stakeholders in Slovakia and the EU supporting the business, research and innovation.

The main activities of BIC Bratislava: development of innovative business (BIC Bratislava hosted the first incubator in Slovakia); support of the public-private (academia-industry) partnerships; supporting innovation and trans-national technological cooperation in Slovakia as a coordinator of Enterprise Europe Network in Slovakia (2008-2014) and Innovation Relay Centres (1997-2008); formulation of the Regional Innovation Strategies for 4 out of the 8 Slovak regions (Bratislava, Trnava, Nitra and Presov), and development of the RIS 3 for the Bratislava Region (Smart Specialization Strategy) and the National Innovation Strategy S3; building the innovation and technology transfer infrastructure; active membership in national and international networks for research and innovation; analysis and development of financial and non-financial tools for supporting the innovative companies; NCP for Innovation in SME and Access to Risk Finance in Horizon 2020; hosting the NCPs for innovation and SME issues in FP7 and FP5; delivering the Economic and Technological Intelligence projects in FP5/FP6. BIC Bratislava has a long experience in leading and participating in the EU projects focused on research and innovation (more than 50 projects funded by FP4-FP7, CIP, Central Europe Programme 2007-2013, PHARE, IVF from which 10 was coordinated by BIC Bratislava).

SK Participant Project Cost: EUR 55 700

SK Participant EC Financial Contribution: EUR 49 720

Project Outcomes planned/real: The project aimed at supporting regional authorities and governments in convergence regions with know-how, methods and financial instruments necessary to create capacities for stimulation and emergence of research-driven clusters. This led to clustering research institutions, universities, R&D companies, SMEs, large companies and financial institutions (if appropriate) in the region. The R&D sector provides research and development for manufacturing companies in selected industrial sectors, increases their innovation capacities and, subsequently, their competitiveness. Another goal of the project was linking of regional authorities and governments, research stakeholders and local business community in EU convergence regions at European level, with the aim to bring the benefits of research to SMEs, and thus increase their competitiveness in both European and global economy. Within the project, a methodology of using European and national funds (including Structural funds, the Framework Programme and CIP funds) for research-driven clusters' creation in convergence regions will be developed, and action plans for participation of research stakeholders in European RTD programmes was designed, with the aim to increase innovation capacity of regional manufacturing companies. Furthermore, research and innovation strategies were defined, which actively contributed to regional economic development.

Slovak Participant's Role in Project: BIC Bratislava was responsible for the development of a methodology for establishing sectoral research-driven clusters in new Central Europe member states, as well as in other convergence regions; disseminating the methodology throughout European convergence regions; establishment of a research-driven cluster in Slovakia, specialising on new materials, micro- and nanotechnologies and IT; extension of automotive research-driven cluster to other relevant industrial sectors. BIC Bratislava was the co-ordinator of the project with participation of University of Zilina, Slovak University of Technology, Faculty of Materials Science and Technology in Trnava, Zilina Self-Governing Region, Institute Of Materials And Machine Mechanics, Slovak Academy of Sciences, and Automotive Cluster Vienna Region - ACVR Austria, TEN Slovakia, s.r.o. and City of Trnava.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Institute of Materials & Machine Mechanics Slovak Academy of Sciences (IMSAS). The institute is oriented towards basic and applied research on the development and characterization of advanced materials, such as metal matrix composites (MMC), intermetallics, and metallic foams. The development of materials is supported by research facilities for evaluation of structure and determination of almost all basic material properties. The institute has gained much experience in design and development of unique processing technologies, and it supplies with testing samples and prototypes many institutes and companies all over the world. The standard manufacturing routes include directional solidification, diffusion bonding, pressure infiltration, cold and hot isostatic compaction, hot extrusion, electrolytic, CVD and PVD deposition of coatings on reinforcing constituents, plasma spraying of metallic and ceramic powders, foaming of metals. IMSAS possesses unique experience in the synthesis of various alloys, compounds and nanostructured materials, with the aid of various advanced technologies.

SK Participant Project Cost: EUR 22 421.5

SK Participant EC Financial Contribution: EUR 20 046.67

Project Outcomes planned/real: The project was directed at the support of regional and government authorities in industry centre regions by know-how, methods, and financial instruments necessary to create research-driven clusters. The aim and the result of the project was the development of methodology for creation clusters of R&D institutions, universities, R&D companies, SMEs, large companies and financial institutions in EU convergence regions and to prepare a ground for its utilization in the West Slovakia region.

Slovak Participant's Role in Project: The main role of IMSAS was the networking with relevant research institutions, universities, clusters and materials scientists working in the region of Central Europe and other European regions, in order to achieve synergies in respective cluster operations, and be able to utilise the know-how in the field of materials science and related technological development, as well as the expertise of clusters R&D bodies, in case that the needed capacity is not available locally. The analysis of experience from countries with economic level comparable to Slovakia currently shows the great necessity to create conditions for faster and more efficient transfer of knowledge on recently developed materials and technological processes, into the industrial practice. Support of establishment of excellently equipped research centres for technological transfer, which serve mainly to the purposes of SMEs, was the main role of IMSAS within the ERDC project. This is an essential prerequisite to raise the level of manufacturing possibilities, and to support the further technological progress.

SLOVAK PARTICIPANT 3

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 22 421.5

SK Participant EC Financial Contribution: EUR 20 046.67

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 4

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 22 421.5

SK Participant EC Financial Contribution: EUR 20 046.67

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 5

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 22 421.5

SK Participant EC Financial Contribution: EUR 20 046.67

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 6

Profile of Slovak Participant/ -s: The Zilina Self-governing Region is an independent territorial self-governing unit. It is a legal entity administering its own property and providing public services for its citizens. In the field of regional development, it provides conceptual and coordinating activities, it is responsible for making and ratifying the Economic and Social Development Plan of the Zilina self-governing region, it proposes basic development priorities of the region in the sectors that have to be supported with respect to balanced development of the region, and proposes strategic objectives, targeted at the economic development of the region.

SK Participant Project Cost: EUR 22 421.5

SK Participant EC Financial Contribution: EUR 20 046.67

Project Outcomes planned/real: The purpose of the project was to support regional structures in the EU convergence regions with know-how, methods and financial tools necessary for the creation of research driven clusters. The goal of the project was to link the regional authorities and governments with research stakeholders and local business communities.

The planned Outcomes of the project are: a) Development of a methodology for establishment of research driven clusters in new member states in the Central European region; b) Spreading the designed methodology in the framework of the convergence regions of the EU, and c) Establishment of a research driven cluster in Slovakia, focused on a specific sector.

The achieved outcomes were:

The methodology was defined with title: ERDC Methodology Proposal for the Establishment of Research Driven Clusters in convergent European Regions; The proposed methodology was discussed and disseminated in selected Central European convergence regions.

Slovak Participant's Role in Project: The Zilina Self-governing Region (ZSK) was partner (beneficiary) in the project. ZSK was, among other things, involved in preparing regional/territorial macro and micro analysis.

SLOVAK PARTICIPANT 7

Profile of Slovak Participant/ -s: The University of Zilina, established in 1953 as a public university, provides education at all three levels of higher education, in both full-time and part-time forms. With its more than a half century history dedicated to mostly technology oriented education and research, the University has taken a prominent place in the Slovak educational and research sphere not only with the number of its students and the range of accredited study programmes, but also with its scientific and foreign activities, based on cooperation with domestic and foreign companies and institutions. The main focus of the University research, education and innovation, is oriented towards transport, communications, electrical and mechanical engineering, civil engineering, safety and security, information and communication technologies, economics, and in recent years also towards the humanities and environmental issues. The staffs of the University has been involved in solving more than 150 scientific and research projects financially supported through national and international grant schemes.

Recently, the scientific teams of the University have been involved in twenty-three EU 7th Framework Programme projects. These teams closely cooperate with partners from various industrial branches in the applied research through six Centres of excellence, supported via the Operational Programme "Research and Development" in the framework of European Structural Funds, and further, closer cooperation with the industries is achieved through four Centres of competence and three Centres for applied research. Their achievements are presented mainly through publication activities, submitted patent applications, presentations at international scientific symposiums, conferences, trade fairs and exhibitions.

SK Participant Project Cost: EUR 22 421.48

SK Participant EC Financial Contribution: EUR 20 046.65

Project Outcomes planned/real: The project aims to contribute to the development of research driven clusters in Europe, with specific focus on convergence regions in central Europe. The objectives of the project are:
- Development of a methodology for establishment of research driven clusters in new member states in the Central European region and in other convergence regions;
- Dissemination of the developed methodology throughout the European convergence regions, and establishment of a research driven cluster in Slovakia, focused on a specific sector.

The project will consist of an analytical part, carried out in the specific region, and targeted activities will be carried out in order to launch research driven cluster in the region. Based on local experience, the methodology for research driven cluster establishment in convergence regions will be prepared for dissemination in other convergence regions in Europe. In the framework of the project, the workshops will be carried out in 4 Central European countries, in order to collect feedback on proposed methodology, and Central European dissemination event will be organized, to present final methodology of the project.

Slovak Participant's Role in Project: The main planned outcomes were as follows:

- To develop a methodology for establishing sectoral research-driven clusters in new Central Europe member states, as well as in other convergence regions
 - To disseminate the methodology throughout European convergence regions
 - To establish an automotive research-driven cluster in Slovakia, specialising in new materials, micro- and nanotechnologies and IT. The automotive research driven cluster will possibly be extended also to other relevant industrial sectors, such as electronics, incl. ICT and renewable energy related technologies, etc.
- The achieved outcomes were:
- The methodology was defined with the title: ERDC Methodology Proposal for the Establishment of Research Driven Clusters in convergent European Regions
 - The proposed methodology was discussed and disseminated in selected Central European convergence regions
 - Research Driven Cluster in Slovak convergence regions was established in 2010

IN2WOOD

Project ID: 245457

Project Title: FOREST Clusters Development and Implementation Measures of a 6-Region Strategic Joint Action Plan for Knowledge-based Regional Innovation

Project website: <http://www.in2wood.eu/>

Project Start Date: 2010-01-01

Project End Date: 2012-06-30

Project Total Cost: EUR 2 593 672

Project EC Financial Contribution: EUR 2 319 065.02

SLOVAK PARTICIPANT 1

Slovak participant Name: NATIONAL FOREST CENTRE, Národné lesnícke centrum

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SLOVAK PARTICIPANT 2

Slovak participant Name: LESY SLOVENSKEJ REPUBLIKY

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Partners of the Consortium:

HOLZCLUSTER STEIERMARK GMBH - AUSTRIA

UKRAINIAN NATIONAL FORESTRY UNIVERSITY - UKRAINE

GRAUBÜNDEN HOLZ - SWITZERLAND

KONSORTIUM KOMPETENZENTRUM ALPINE BAUTECHNOLOGIE - ITALY

INTERNATIONALES INSTITUT FÜR WALD UND HOLZ NRW E.V. - GERMANY

PROJEKTKOMPETENZ.EU OG - AUSTRIA

WALDVERBAND STEIERMARK - AUSTRIA

TIS - TECHNO INNOVATION SOUTH TYROL SCPA - ITALY

INFORMATIONEN-UND DEMONSTRATIONSZENTRUM ERNEUERBARE ENERGIE E.V. - GERMANY

FORZA, AGENCY FOR SUSTAINABLE DEVELOPMENT OF THE CARPATHIAN REGION - UKRAINE

LANDESBETRIEB WALD UND HOLZ NRW – GERMANY

NATIONAL FOREST CENTRE, NARODNE LESNICKE CENTRUM- SLOVAKIA

LESY SLOVENSKEJ REPUBLIKY- SLOVAKIA

Project Description: IN2WOOD deals with the challenges of a sustainable European forest management and tackles crucial questions in the RTD environment of the forest-based sector. Wood shall be further established as one of the main renewable resources and the added value of forest in terms of economic and innovative value and quality of life shall be further improved. Aiming at the promotion of crosscutting research on these values, forest clusters of 6 European regions Styria (Austria), North-Rhine Westfalia (Germany), South Tyrol (Italy), Banská Bystrica (Slovakia), Grisons (Switzerland), and Carpathia (Ukraine) - have joined forces to elaborate a Joint Action Plan for the future coordination and strengthening of their complementary RTD potentials.

Project Objectives: The project aims at 5 general objectives for forest sector development:

- to enhance Wood Production,
- to strengthen Technological Innovation Systems,
- to develop Competence Awareness,
- to optimize Logistics,
- to build up Information Systems.

The Joint Action Plan, delivered at mid-term of the 3-year project, collects sets of regionally adopted, coordinated strategies for future collaborative RTD-activities in these 5 thematic fields. Measures towards the implementation of the JAP will be taken in phase II, in the form of pilot concepts, which define specific partnerships, plans and funding schemes for innovative follow-up projects.

IN2WOOD builds upon the existing bilateral cooperation between regions, sharpens their complementarities and promotes further synergies. Fostering stronger networking, knowledge exchange and cluster formation among stakeholders within and between the partner regions, the project's mentoring also reaches out to important forest regions in South Eastern Europe, where the consortium will strengthen existing links and initiate new partnerships. The project thus supports further development and internationalisation of regional research-driven clusters in the European forest sector.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: NCL is a semi-budgetary forestry agency established by the SR Ministry of Agriculture on 1 January 2006. The Centre reports directly to the Department of Forestry and Wood-processing of MA SR. Its duties and powers are prescribed by statute No 6481/2005-250 from 22 November 2005 amended by the Decision No 1549/2007-250 from 19 March 2007, and Decision No 3632/2007-250 from 23 August 2007.

SK Participant Project Cost: EUR 111 240

SK Participant EC Financial Contribution: EUR 99 189

Project Outcomes planned/real: Knowledge-based innovation of research-to-development systems in the forest and wood-based sector, and enhancement of wood production by developing new forest management systems, considering ecosystem functions of the resource "forest", and by strengthening innovation Systems for sustainable and energy-efficient use of wood resources, development of Competence awareness for wood as a modern urban construction material and energy supply, Logistics workflows using geo-information and IT systems, framework for a forest-sector information system for both inter and intraregional networking and knowledge transfer, Pilot concepts elaboration.

Slovak Participant's Role in Project: Coordination of Internationalisation of regional research-driven clusters in the European forest sector, Coordination of the projects mentoring process, reaching out to important forest regions in South Eastern Europe, where the IN2WOOD consortium has strengthened existing links and initiated new partnerships, promotion of crosscutting research within the forest clusters, aiming at general objectives for the forest sector development, contribution to all project WPs, implementation of project planned activities

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: The state enterprise Forests of the Slovak Republic (LESY SR), Banská Bystrica continues in the rich and long-term forestry tradition in Slovakia. Based on the Decree of the Ministry of Agriculture, the enterprise was established on 1 July 1999, by merging 6 former regional state forest enterprises. The main scope of activities of the state enterprise LESY SR Banská Bystrica is to manage forests and other property in the ownership of the Slovak Republic. It provides a balanced fulfilment of all functions of forests, and a sustainable use of tangible and intangible products and services provided by the forests. The main objective of the state enterprise LESY SR is to provide sustainable management of forests in the ownership of state, as well as other forest owners, so that an increased functionality and maximal positive management effects can be achieved.

The participant Forests of the Slovak Republic has rich experience in national, international, and cross-border projects within forestry and other forestry activities, e.g., revitalization of damaged forest stands, projects of fire protection, construction of forest roads and dams, and other projects with main activities aimed at public.

SK Participant Project Cost: EUR 62 082

SK Participant EC Financial Contribution: EUR 55 356.46

Project Outcomes planned/real: IN2WOOD project strengthened knowledge-based innovation of research-to-development systems in the forest and wood-based sector, and enhanced wood production by developing new forest management systems, considering ecosystem functions of the resource "forest", and by strengthening innovation Systems for sustainable and energy-efficient use of wood resources, development of Competence awareness for wood as a modern urban construction material and energy supply, Logistics workflows, using geo-information and IT systems, framework for a forest-sector information system for both inter and intraregional networking and knowledge transfer, Pilot concepts elaboration.

Slovak Participant's Role in Project: Contribution to all project WPs, implementation of project planned activities, strengthening of the existing links and initiation of new partnerships, promotion of crosscutting research within the forest clusters, aiming at general objectives for the forest sector development.

KNOWBRIDGE

Project ID: 229747
Project Title: The Cross Border Knowledge Bridge in the Renewable Energy Sources Cluster in the Eastern Slovakia and North Hungary
Project website: <http://www.knowbridge.eu/>
Project Start Date: 2009-06-01
Project End Date: 2012-11-30
Project Total Cost: EUR 1 051 888
Project EC Financial Contribution: EUR 952 277.1

SLOVAK PARTICIPANT 1

Slovak participant Name: AGENTURA NA PODPORU REGIONALNEHO ROZVOJA KOSICE, N.O., Agency for the support of regional development Kosice
Slovak participant address: Strojársená 3, 040 01 Košice
Contact person email/ phone: Mr. Jaroslav Tesliar, +421 5 57 289 317, arr@arr.sk

SLOVAK PARTICIPANT 2

Slovak participant Name: KOSICKY SAMOSPRAVNY KRAJ, Kosice self-governing region
Slovak participant address: Námestie Maratónu mieru 1, 042 66 Košice
Contact person email/ phone: Mr. Peter Tapák, +421 5 57 268 220, peter.tapak@vucke.sk

SLOVAK PARTICIPANT 3

Slovak participant Name: Solarklima, s.r.o.
Slovak participant address: Buzinská 11, 040 15 Košice
Contact person email/ phone: employees of the Solarklima company

SLOVAK PARTICIPANT 4

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, Technical University Kosice (TUKE)
Slovak participant address: Letná 9, 042 00 Košice
Contact person email/ phone: prof. RNDr. Oto Hudec, CSc. Oto.hudec@tuke.sk +421-55-602 3303

SLOVAK PARTICIPANT 5

Slovak participant Name: Východoslovenská energetika a.s.
Slovak participant address: Mlynská 31, 042 91 Košice
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SLOVAK PARTICIPANT 6

Slovak participant Name: ZTS VYSKUMNO-VYVOJOVY USTAV KOSICE AS, ZTS VVU KOSICE a.s.
Slovak participant address: Južná trieda 95, 041 24 Košice
Contact person email/ phone: Mr. Ladislav Vargovcik, +421 5 56 834 210, Ladislav.vargovcik@ztsvvu.eu

Partners of the Consortium:

Participants: FUNDACION CARTIF - ESPAÑA
ENIN KOERNYEZETIPARI KLASZTER KFT. - MAGYARORSZAG
NAGY-FERENCZI TERMELO KERESKEDELMIES SZOLGALTATO KFT - MAGYARORSZAG
NORDA ESZAK-MAGYARORSZAGI REGIONALIS FEJLESZTESI UGYNOKSEG KOZHASZNU NONPROFIT KORLATOLT FELELODDEGU TARSASAG - MAGYARORSZAG
MISKOLCI EGYETEM - MAGYARORSZAG
MISKOLC HOLDING ÖNKORMÁNYZATI VAGYONKEZELP ZÁRTKÖRŰEN MpkÖDP
RÉSZVÉNYTÁRSASÁG - MAGYARORSZAG
ENVIROLINK NORTH WEST LIMITED - UNITED KINGDOM
AGENTURA NA PODPORU REGIONALNEHO ROZVOJA KOSICE, N.O., Agency for the support of regional development Kosice- SLOVAKIA
KOSICKY SAMOSPRAVNY KRAJ, Kosice self-governing region- SLOVAKIA
Solarklima, s.r.o. - SLOVAKIA
TECHNICKA UNIVERZITA V KOSICIACH, Technical University Kosice (TUKE)- SLOVAKIA
Východoslovenská energetika a.s.- SLOVAKIA
ZTS VYSKUMNO-VYVOJOVY USTAV KOSICE AS, ZTS VVU KOSICE a.s.- SLOVAKIA

Project Description: The KNOWBRIDGE project brings a chance to increase the capacity and to strengthen the research potential of two cross border convergence regions (the Košice Self-governing Region in Slovakia and the Borsod-Abaúj-Zemplén Region in Hungary), by supporting the development of a new, innovative cross border research-driven cluster in the area of Renewable Energy Sources (RES), and by associating research entities, enterprises and regional authorities. The duration of the project is 36 months and the project consortium consists of 12 members, concerned with all areas necessary for research-driven economic development in the regional achievement.



Project Objectives: Objective of the KNOWBRIDGE project is to increase the capacity and to strengthen the research potential of two cross border and convergence regions (the Košice Self-governing Region in Slovakia and the Borsod-Abaúj-Zemplén Region in Hungary), by supporting the development of a new, innovative cross border research-driven cluster in the area of Renewable Energy Sources, and by associating research entities, enterprises and regional authorities. The KNOWLEDGE project specific objectives are:

- to develop Joint Action Plan for cross border research driven cluster, in order to increase regional economic competitiveness through research and technological development activities;
- to foster a cross border cooperation, and to increase the overall capacities of regional players, by enhancing science and technology based development in cross border context;
- to maximize the benefits of research infrastructures for cross border and regional economic development;
- to improve links and enhance common partnership of regional authorities, research entities and business community in both national and European initiatives;
- to promote development of specific goals for regional and cross border RTD policies;
- to exploit the synergy between regional, national and Community programmes for research and economic development in cross border environment, and to maximize the potential of a successful involvement of regional actors in European research projects;
- to enhance trans-national, including cross-border and inter-regional mutual training of regional actors;
- to mentor regions with a less developed research profile by more experienced partners, through mutual exchange of experience and best practices;
- to promote reduction of CO2 emissions in the two cross border regions.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A
SK Participant Project Cost: EUR 98 560
SK Participant EC Financial Contribution: EUR 88 121
Project Outcomes planned/real: N/A
Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A
SK Participant Project Cost: EUR 171 200
SK Participant EC Financial Contribution: EUR 154 560
Project Outcomes planned/real: N/A
Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 3

Profile of Slovak Participant/ -s: Solarklima, s.r.o., a team for implementing practical renewable energy solution. Company activities: solar and photocells systems, heat pumps, heat energy transformation, cooling, ventilation, economical heating systems.

SK Participant Project Cost: EUR 9 720

SK Participant EC Financial Contribution: EUR 8 667

Project Outcomes planned/real: The Project considered in the larger territorial perspective as a part of Eastern Slovakia and North-Eastern Hungary) by supporting the development of new innovative cross border research-driven cluster in the area of Renewable Energy Sources (RES) and associating research entities, enterprises and regional authorities.

Slovak Participant's Role in Project: Solarklima Role in project: practice consultations and expert expositions from the Renewable Energy sphere.

SLOVAK PARTICIPANT 4

Profile of Slovak Participant/ -s: Technical University of Kosice (TUKE) consists of nine faculties with around 16 000 full-time undergraduate students. It has 900 members of academic and the same number of research and administrative staff. Technical University of Kosice is the driver of ICT innovation and development in the Slovakia region. The main faculties related to the business, innovation and networked economy are the Faculty of Economics, Engineering and Informatics and BERG. Their research projects (5,6,7RP) focus on business networking, socio-economic analysis of ICT impact, e-business, trust building in the business networks, knowledge management, web technologies, logistics, eGovernment and regional development. Mission of TUKE is to provide its environment with scientific and technological knowledge basis, innovation and workforce, in order to form beneficial and sustainable future and high quality of life. This will be achieved at TUKE by innovative research and excellent education in all scientific branches of respective University Faculties. Because of our scientific excellence, we are the most successful organization in FPx projects in Slovakia, esp. in IST. TUKE is active in knowledge transfer, regional development, and influencing public life through participation in several clusters and associations, esp. IT Valley, CEIT, ALADIN, etc. or in very close cooperation with self-governing region, regional municipalities, ministries, chambers of commerce and relevant regional and national stakeholders.



SK Participant Project Cost: EUR 198 948

SK Participant EC Financial Contribution: EUR 179 085.3

Project Outcomes planned/real: To increase the capacity and to strengthen the research potential of two cross-border convergence regions by supporting the development of new innovative cross border research-driven cluster in the area of Renewable Energy Sources (RES) and associating research entities, enterprises and regional authorities. To prepare the cross-regional joint action Plan and business plan for future cluster in the area of RES.

Slovak Participant's Role in Project: Leader of WP: Methodology, preparation of all Analyses, contribution to all WPs.

SLOVAK PARTICIPANT 5

Profile of Slovak Participant/ -s: N/A
SK Participant Project Cost: EUR 39 600
SK Participant EC Financial Contribution: EUR 35 310
Project Outcomes planned/real: N/A
Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 6

Profile of Slovak Participant/ -s: N/A
SK Participant Project Cost: EUR 32 040
SK Participant EC Financial Contribution: EUR 28 569
Project Outcomes planned/real: N/A
Slovak Participant's Role in Project: N/A



4. Specific programme **CAPACITIES**

4.4 Research potential of Convergence Regions - (REGPOT)



CELIM

Project ID: 316310

Project Title: Fostering Excellence in Multiscale Cell Imaging

Project website: <http://celim.science.upjs.sk/web/>

Project Start Date: 2013-06-01

Project End Date: 2016-05-31

Project Total Cost: EUR 2 927 874

Project EC Financial Contribution: EUR 2 613 937

Slovak participant Name: UNIVERZITA PAVLA JOZEFA SAFARIKA V KOSICIACH, Pavol Jozef Šafárik University in Košice

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pavol.miskovsky@upjs.sk

Partners of the Consortium: UNIVERZITA PAVLA JOZEFA SAFARIKA V KOSICIACH, Pavol Jozef Šafárik University in Košice- SLOVAKIA

Project Description: The project (Fostering Excellence in Multiscale Cell Imaging - CELIM) is designed to energize the research potential of the University of P. J. Šafárik in Kosice, Slovakia, by the enhancement of the existing network of collaborators with the selected excellent European Partners, centred around the theme of cell imaging and by the acquisition of a new technical infrastructure.

The CELIM consortium is fully dedicated to promote application of the knowledge obtained in basic research into practice. The realization of the project will accelerate our research activities in the most promising areas of cell imaging (e.g. involvement of the consortium in the research program of the European XFEL experimental stations). The benefits of the foreseen progress in cell imaging will expand our current impact towards new horizons in oncology (selective drug targeting and effective cancer treatment), stem cells research (novel insights into human and animal morphogenesis), reproduction and animal breeding (development of non-invasive techniques for single-cell diagnosis). Thus, broad implications for not only the basic biomedical research, but also directly to practical sphere (e.g. cancer therapy and diagnosis, regenerative medicine and agriculture) can be expected.

Project Objectives: The main goals and activities of the project can be summarized as follow: i) to integrate scientists with complementary research skills into a coherent interdisciplinary research entity, ii) to reinforce excellence and creativity of the scientists in consortium by the knowledge and know-how transfer from leading research European organizations, iii) to upgrade existing infrastructure for up-to-date experiments, iv) to identify and reintegrate skilful and experienced Slovak scientists. The realization of the project will result to the improvement of the research environment, substantial increase of competitiveness in the ERA, and ensure leadership of the consortium in the field of cell imaging in the region.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 2 927 874

SK Participant EC Financial Contribution: EUR 2 613 937

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ERADIATE

Project ID: 621286

Project Title: Enhancing Research and innovAtion dimension of the University of Zilina in intelligent transport systems

Project website: N/A

Project Start Date: 2014-07-07

Project End Date: 2019-07-06

Project Total Cost: EUR 2 640 760

Project EC Financial Contribution: EUR 2 126 035

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, University of Zilina

Slovak participant address: UNIVERZITNÁ 8215/1, 01026 ŽILINA

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Coordinator:

ZILINSKA UNIVERZITA V ZILINE, University of Zilina

Project Description: The ERAdiate project is aimed at unlocking and strengthening the research potential and promoting excellence of the University of Zilina (UNIZA) as well as of the Zilina region in the field of Intelligent Transport Systems (ITS). Systematic development of human resources, effective exploitation of unique research infrastructures and advanced transformations of the institution steered towards enhanced competitiveness in the European Research Area (ERA) are the key instruments to reach the ERAdiate goals.

Project Objectives: The project focuses on sustainable development of human resources and key competences under leadership of an experienced scientist and manager, an ERA Chair Holder, and his/her team. Major challenges such as creating a competitive environment, increasing the critical mass of excellent researchers, significant improvement of the UNIZA performance in competitive research funding, implementation of the ERA culture, and contribution to growth and jobs based on the SMART specialization strategies are addressed. The synergy effect between cohesion funds and research funding is the cornerstone for building a unique research and innovation hub located in the Zilina region, which would be oriented on global societal and environmental challenges connected to the solving of transportation issues with implementation of the ITS. Realization of the ERAdiate project will enhance the UNIZA and the Zilina region performance in research, innovation as well as education for the benefits of enlarged Union.

Profile of Slovak Participant/ -s: The University of Zilina (UNIZA), established in 1953 as a public university, provides education at all three levels of higher education in both full-time and part-time forms. With a history of more than half a century of dedication to mostly technology-oriented education and research, the University has taken a prominent place in the Slovak educational and research space not only due to the number of its students, the range of accredited study programmes, but also with its scientific and international activities based on cooperation with domestic and foreign companies and institutions. The main focus of the research, education and innovation is oriented towards transport, communications, electrical

and mechanical engineering, civil engineering, safety and security, information and communication technologies, economics, and in recent years also towards the humanities and environmental issues. The research and administrative staff of the University has been involved in more than 150 scientific and research projects financially supported through national and international grant schemes.

Recently the scientific teams of the University have been involved in 23 EU 7th Framework Programme projects. These teams closely cooperate with partners from various industrial branches in applied research within six Centres of Excellence, supported via the Operational Programme "Research and Development" in the framework of European Structural Funds. Furthermore, closer cooperation with the industries is entered into via four Centres of Competence and three Centres of applied research. Their achievements are presented mainly via publication activities, submitted patent applications, presentations at international scientific symposiums and conferences, but also at trade fairs and exhibitions.

SK Participant Project Cost: EUR 2 640 760

SK Participant EC Financial Contribution: EUR 2 126 035

Project Outcomes planned/real: The ERAdiate project is aimed at unlocking and strengthening the research potential and promoting excellence of the University of Zilina (UNIZA) as well as of the Zilina region in the field of Intelligent Transport Systems (ITS). Systematic development of human resources, effective exploitation of unique research infrastructures and advanced transformations of the institution steered towards enhanced competitiveness in the European Research Area (ERA) are the key instruments to reach the ERAdiate goals. The project focuses on sustainable development of human resources and key competences under leadership of an experienced scientist and manager, an ERA Chair Holder, and his/her team. Major challenges such as creating a competitive environment, increasing the critical mass of excellent researchers, significant improvement of the UNIZA performance in competitive research funding, implementation of the ERA culture, and contribution to growth and jobs based on the SMART specialization strategies are addressed. Synergic effect between cohesion funds and research funding is the cornerstone for building up a unique research and innovation hub located in the Zilina region and oriented on global societal and environmental challenges connected to the solving of transportation issues with implementation of the ITS. Realization of the ERAdiate project will enhance the UNIZA and the Zilina region performance in research, innovation as well as education for the benefits of an enlarged Union.

Slovak Participant's Role in Project: coordinator and the only beneficiary.

ERAdiate

IMPROVING

Project ID: 229625

Project Title: Improving the Research Capacity of the Institute of Materials Research in Kosice

Project website: <http://www.imr.saske.sk/>

Project Start Date: 2009-03-01

Project End Date: 2010-02-28

Project Total Cost: EUR 97 216.82

Project EC Financial Contribution: EUR 87 855

Slovak participant Name: USTAV MATERIALOVEHO VYSKUMU SLOVENS KEJ AKADEMIE VIED, Institute of Materials Research, Slovak Academy of Sciences

Slovak participant address: Watsonova 47, 043 53

Contact person email/ phone: prof. RNDr. Ján DUSZA, DrSc., Tel.: +421-557922462, Email: jdusza@imr.saske.sk

Partners of the Consortium:

USTAV MATERIALOVEHO VYSKUMU SLOVENS KEJ AKADEMIE VIED, INSTITUTE OF MATERIALS RESEARCH, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: N/A

Project Objectives: The objective of the present project aims to create the necessary tools for improvement of the research capacity in the field of nanomaterials and new technologies of the Institute of Materials Research of the Slovak Academy of Sciences (IMR SAS) in Košice, with the aim to increase its contribution to the regional economic and social development, and to increase its participation in FP7 and other international projects. This will be realized through an international independent expert evaluation of the level of the overall research quality and management & research capability of the IMR SAS, the definition and preparation of an Action Plan for improving their research and development capacities, based on the results of the evaluation and on discussion with representatives of the Centres in Europe, regional research and development authorities, and utilizing the possibilities of cohesion policy programmes of EU in 2007-2013.

Profile of Slovak Participant/ -s: During its 55 years of existence, the Institute of Materials Research, Slovak Academy of Sciences, Kosice, SK (IMRSAS) has become one of the leading institutions of Central Europe in the field of powder technologies/materials, nanomaterials and ceramic matrix composites. The scientific orientation of the Institute (84 members of staff, incl. 3 Professors, 5 DrSc., 33 PhD.) is focused on the development and testing of new materials (physical and mechanical properties, as well as deformation and fracture characteristics of different materials at low, room, and high temperatures), and of new technologies with potential applications in transportation, energy, information technology, etc. The Institute collaborates with a number of European institutions in the frame of different EC, COST, NATO, Royal Society etc. Projects, and organizes various international conferences and meetings.



SK Participant Project Cost: EUR 97 216.82

SK Participant EC Financial Contribution: EUR 87 855

Project Outcomes planned/real: The objective of the present project was to create the necessary tools for improvement of the research capacity in the field of nanomaterials and new technologies of the Institute of Materials Research of the Slovak Academy of Sciences (IMR SAS) in Kosice, with the aim to increase its contribution to the regional economic and social development, and to increase its participation in FP7 and other international projects. This was planned to be realised through:

- an international independent expert evaluation of the level of the overall research quality and management & research capability of the IMR SAS and;
- definition and preparation of an Action Plan for improving their research and development capacities, based on the results of the evaluation and on discussion with representatives of the centres in Europe, regional research and development authorities, and utilising the possibilities of cohesion policy programmes of EU in 2007-2013.

Slovak Participant's Role in Project: The Project was focused on improving the research, education and innovation activities of the Slovak coordinator: the Institute of Materials Research of the Slovak Academy of Sciences.

A material describing the activities of the IMR SAS from 1.1.2004 to 31.12.2008 has been prepared, which served as the basis of the evaluation process. Based on the report and expert discussions with the key persons of the institute during their visit on the IMR SAS, a report on the quality of management and research capability of the IMR SAS was prepared. Visits of similar institutions in Europe have been realized by scientists of the IMR SAS, with the aim to discuss their experience how to realise the recommendation of experts in creation of Action Plan. Based on a report of independent experts and on discussion with representatives of similar institutions in Europe, an Action Plan for the IMR SAS was prepared for the years of 2010 - 2015. This was discussed during a workshop with local authorities, leaders of local universities and industrial partners, and their comments had been taken into consideration, before the Action Plan was finalised.

RP-DEMATEN

Project ID: 204953

Project Title: Reinforcement of research potential of the Department of Materials Engineering in the field of processing and characterization of nanostructured materials

Project website:

Project Start Date: 2008-05-01

Project End Date: 2011-04-30

Project Total Cost: EUR 584 270

Project EC Financial Contribution: EUR 499 983

Slovak participant Name: USTAV MATERIALOVEHO VYSKUMU SLOVENS KEJ AKADEMIE VIED, Institute of Materials Research, Slovak Academy of Sciences

Slovak participant address: Watsonova 47, 043 53

Contact person email/ phone: prof. RNDr. Ján DUSZA, DrSc., Tel.: +421-557922462, E-mail: jdusza@imr.saske.sk

Partners of the Consortium: Coordinator: TEHNOLOSKI FAKULTET NOVI SAD - SERBIA
Participants: UNIVERSITAET DUISBURG-ESSEN - GERMANY
VYSOKE UCENI TECHNICKE V BRNE - CZECH REPUBLIC
USTAV MAKROMOLEKULARNI CHEMIE AV CR, V.V.I. - CZECH REPUBLIC
NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS" – GREECE

USTAV MATERIALOVEHO VYSKUMU SLOVENS KEJ AKADEMIE VIED, INSTITUTE OF MATERIALS RESEARCH, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: The Department of Materials Engineering (DEMATEN) at the Faculty of Technology, University of Novi Sad, represents the strongest research and education centre in the field of ceramics and polymer materials in the province of Vojvodina. It is also one of the first research centres in Serbia in which investigation of nanostructured materials began in the early 1990s. Since then, the research activities at DEMATEN have been focused on the processing and characterization of nanostructured materials: nanopowders, nanotubes, nanofilms, nanocomposites.

Project Objectives: The objectives of the proposed project are reinforcement of research potential of DEMATEN, and strengthening partnerships among centres of excellence established in the EU convergence regions, the Member States and the Western Balkan Countries (WBC). This will be realized by: i) improving networking and exchanging know-how and experience among the countries through trans-national two-way secondments of research staff; ii) sending young scientists in the EU centres for training or to carry out specific research experiments; iii) reinforcing the human potential of DEMATEN (and three research centres from the EU s convergence region), by hiring new young researchers; iv) upgrading and renewal of S&T research equipment and v) organising workshops and conferences. Achievement of these goals should enable the research group of DEMATEN to become expert and competent in the challenging field of nanomaterials and nanotechnology, to reinforce the WBC research potential, and to contribute to sustainable research development, by reinforcing S&T potential. The proposed project will explore the synthesis, characterization and processing of nanostructured materials, as well as their integration into novel technologies. Realization of the project would facilitate integration of DEMATEN into the European research area, as an appropriate partner in fundamental, as well as applied research projects.



Profile of Slovak Participant/ -s: During its 55 years of existence, the Institute of Materials Research, the Slovak Academy of Sciences, Kosice, SK (IMRSAS), has become one of the leading institutions of Central Europe in the field of powder technologies/materials, nanomaterials and ceramic matrix composites. The scientific orientation of the Institute (84 members of staff, incl. 3 Professors, 5 DrSc., 33 PhD.) is focused on the development and testing of new materials (physical and mechanical properties and the deformation and fracture characteristics of different materials at low, room, and high temperatures), and of new technologies with potential applications in transportation, energy, information technology, etc. The Institute collaborates with a number of European institutions in the frame of different EC, COST, NATO, Royal Society etc. Projects, and organizes various international conferences and meetings. The Department of Structural Ceramics will be mostly involved in the Project by providing its expertise in the following research fields: Microstructure and mechanical properties of silicon nitride based monolithic ceramics, ceramic matrix composites, nano-composites, layered composites and coatings, High temperature characteristics of brittle materials / creep, slow crack growth, oxidation etc; Fractographic failure analysis of brittle materials, Prediction of the life-time and reliability of brittle materials, Pre-standardization and standardization activities in the frame of ESIS and VAMAS.

SK Participant Project Cost: EUR 54 000

SK Participant EC Financial Contribution: EUR 48 150

Project Outcomes planned/real: The objectives of the proposed Project are the reinforcement of research potential of the DEMATEN at the FTUNS, and strengthening of the partnerships among centres of excellence established in the EU's convergence regions, the Member States and the Western Balkan Countries (WBC). The major RP-DEMATEN objectives are to: Hire new, young and experienced researchers; Improve networking and exchange know-how and experience by exchange of senior researchers; Provide training to our young researchers; Develop, launch and support information system through a web site, offering access to thematic and general information in the field of nanomaterials and nanotechnology; Disseminate written information in form of flyers, pamphlets etc., Upgrade and renew equipment necessary for successful development of nanomaterials and nanotechnology; Organize Conferences, Workshops, and Training schools.

The RP-DEMATEN was very important for the reinforcement of research potential of the DEMATEN at the FTUNS and strengthening partnerships among the European centres of excellence. Researchers from the RP-DEMATEN project have created a strong network - they have continued collaboration, participated in two COST projects and prepared new joint project proposals. The results of the research activities will be presented at several important national and international scientific conferences, and published in peer-reviewed journals. Detailed description is given in the attached PDF-file and Progress Reports on the first, second and third year of the project.

Slovak Participant's Role in Project: The role of IMRSAS is to cooperate in the Project WPs:

1. Mobility and training

- training of young scientists from the Centres in the WBC (FTUNS-Novi Sad) and the EU's convergence regions (IMSNCSR-Athens, IMRSAS-Kosice and DCPBUT-Brno) through study visits;

- increase of mobility of young, but also senior scientists, and organization of a high cooperative research, by using research capacities in different centres of excellence, established in the EU's convergence regions, the Member States and the WBC;

- exchange of know-how and experience between the researchers from the EU research institutions and the WBC centre;

- hosting scientists from abroad for training and/or research activities will increase cooperation and facilitate networking among the partners in the project.

2. Dissemination of information during the lifetime of the project

3. Hiring two young researchers in IMRSAS-Kosice:

- Preparation and opening the call for hiring;

- Selection of the best candidate;

- Preparation of the plan for training of hired young researchers,

- Monitoring the realization of the plan.

4. Specific programme
CAPACITIES

4.5 Science in Society
- (SiS)



DIVERSITY

Project ID: 230253

Project Title: Improving the gender diversity management in materials research institutions

Project website: <http://www.ifw-dresden.de/>

Project Start Date: 2009-01-01

Project End Date: 2011-12-31

Project Total Cost: EUR 415 268.65

Project EC Financial Contribution: EUR 315 083

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

Slovak participant address: Vazovova 5, 812 43 Bratislava

Contact person email/ phone: Prof. Oliver Moravcik, +421 33 55 11 028
oliver.moravcik@stuba.sk

Partners of the Consortium:

LEIBNIZ-INSTITUT FUER FESTKOERPER- UND WERKSTOFFFORSCHUNG DRESDEN E.V. - GERMANY

INSTITUT JOZEF STEFAN - SLOVENIA

CHALMERS TEKNISKA HOEGSKOLA AB - SWEDEN

GEORG-AUGUST-UNIVERSITAET GOETTINGEN STIFTUNG OEFFENTLICHEN RECHTS - GERMANY

KARLSRUHER INSTITUT FUER TECHNOLOGIE - GERMANY

PLATEFORME EUROPEENNE DES FEMMES SCIENTIFIQUES AISBL - BELGIUM

SÄCHSISCHES STAATSMINISTERIUM FÜR WISSENSCHAFT UND KUNST - GERMANY

UNIVERSITAT AUTONOMA DE BARCELONA - SPAIN

THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD - UNITED KINGDOM

UNIVERSITA DEGLI STUDI DI TORINO - ITALY

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE

WIRTSCHAFTSUNIVERSITAT WIEN - AUSTRIA

PANEPISTIMIO IOANNINON - GREECE

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)- SLOVAKIA

Project Description: DIVERSITY is a 36 months CSA (Supporting) project involving 14 partners from 11 European countries (Germany, Austria, Belgium, France, Spain, Italy, Sweden, Slovenia, UK, Slovakia, Greece). It represents a pilot initiative of networking policy makers, human resources experts, women scientists networks, and scientists to support the institutional culture change for a greater inclusiveness of women scientists in materials research organizations.

Project Objectives: The project objective is to identify policies and implementation activities to improve gender diversity management in materials research organizations by:

- strengthening the role of women in scientific decision making,

- supporting the materials research institutions to create their individual profile on the basis of principles of the European Charter for Researchers and the Code of Conduct for their Recruitment,

- enhancing the solidarity and involvement of men decision makers in promoting gender equality in scientific decision making ,

- raising awareness within the scientific community, in the general public and among policy makers about gender and research.

The activities planned are logically organized in 6 work packages, which can be grouped into three stages: In the first stage, the focus will be on benchmarking and monitoring the gender equality & diversity measures in participating research institutions in order to identify the best practice examples as well as the reasons behind low participation of women in decision making process. The second stage aims to support the materials research institutions to create their individual profile on the basis of the principles of the Charter and Code and to provide guidelines and recommendations for improving the transparency in recruitment, promotion and nomination in order to increase the proportion of women at the highest levels of research. The third stage is dedicated to awareness raising and dissemination activities.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 10 560

SK Participant EC Financial Contribution: EUR 9 416

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ECB

Project ID: 266622

Project Title: European Coordinating Body in Maths, Science and Technology Education (ECB)

Project website: <http://www.eun.org/>

Project Start Date: 2011-02-01

Project End Date: 2014-10-31

Project Total Cost: EUR 8 161 949

Project EC Financial Contribution: EUR 3 578 912

Slovak participant Name: ZILINSKA UNIVERZITA V ZILINE, The University of Zilina

Slovak participant address: Univerzitná 1, 010 26 Žilina

Contact person email/ phone: Ing. Lucia Hrebeňárová, PhD., e-mail: lucia.hrebenarova@uniza.sk, tel.: +421 41 513 50 41

Partners of the Consortium:

EUN PARTNERSHIP AISBL - BELGIUM

Participants: NOKIA OYJ - SUOMI/FINLAND

MYSCIENCE.CO LIMITED - UNITED KINGDOM

INDIRE ISTITUTO NAZIONALE DI DOCUMENTAZIONE PER L'INNOVAZIONE E LA RICERCA EDUCATIVA - ITALY

STMICROELECTRONICS S.A. - FRANCE

TELEFONICA SA - SPAIN

BASF SE - GERMANY

FUNDACION TELEFONICA - SPAIN

DANSK NATURVIDENSKABSFORMIDLING - DENMARK

WISSENFABRIK - UNTERNEHMEN FÜR DEUTSCHLAND EV - GERMANY

EUROPEAN ROUND TABLE OF INDUSTRIALISTS - BELGIUM

BUNDESMINISTERIUM FÜR UNTERRICHT, KUNST UND KULTUR - AUSTRIA

NATIONAL FOUNDATION FOR EDUCATIONAL RESEARCH IN ENGLAND AND WALES

LBG - UNITED KINGDOM

TEKNIKFORETAGENS SERVICE I SVERIGE AB - SWEDEN

MINISTERIO DA EDUCACAO - PORTUGAL

NATURVIDENSKABERNES HUS AS - DENMARK

MAKASH - ADVANCING CMC APPLICATIONS IN EDUCATION, CULTURE AND SCIENCE

- ISRAEL

AB VOLVO - SWEDEN

MINISTERIO DA EDUCACAO E CIENCIA - PORTUGAL

STICHTING PLATFORM BETA EN TECHNIEK - NETHERLANDS

PHILIPS ELECTRONICS NEDERLAND B.V. - NETHERLANDS

SHELL INTERNATIONAL BV - NETHERLANDS

UNIVERSITAT AUTONOMA DE BARCELONA - SPAIN

STMICROELECTRONICS N.V., AMSTERDAM, THE NETHERLANDS, SUCCURSALE DE

PLAN-LES-OUATES - SWITZERLAND

CONSEIL EUROPÉEN DE L'INDUSTRIE CHIMIQUE - BELGIUM

FUTURELAB EDUCATION - UNITED KINGDOM

TIIGRIHUPPE SIHTASUTUS - ESTONIA

HARIDUSE INFOTEHNOLOGIA SIHTASUTUS - ESTONIA

ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA- SLOVAKIA

ZILINSKA UNIVERZITA V ZILINE, THE UNIVERSITY OF ZILINA- SLOVAKIA

Project Description: The European Coordinating Body in Maths, Science and Technology Education (ECB) is a large-scale strategic response to the FP7 call to reinforce links between science education and science and technology careers in the private sector, through reinforcing the industry/education partnership.

Project Objectives: The overall aim of the ECB is to increase young Europeans' interest in mathematics, science and technology (MST) education and careers, addressing two challenges: the lack of interest in the subjects, and the future skills gap (by 2020, there will be 20 million high-skilled jobs and 30 million medium-skilled jobs using MST in Europe). The partnership proposed for the ECB is a multi-stakeholder consortium of 26 partners in 15 countries, associating Ministries of Education, Businesses (major European companies, National science platforms, Organisations representing the interests of industry), and Universities. The financial model of the ECB is based on a shared contribution, provided by the major stakeholders of the project; a significant part of the budget is devoted to dissemination and impact activities. Through innovative initiatives and coordinating and building on existing school/business partnerships in the field of MST education across Europe, the ECB will develop a repository of practice, disseminate and stimulate good practices in MST and encourage new practices.

Two key areas of work are a portal with a monitor of industry-education information, guidance and good practices in Europe and networks of over 1 000 primary and secondary schools (with a leading pilot network of 150 schools), which will validate the best practices, design a programme of activities, and organise seminars for teachers on industry-education cooperation in MST education. A set of major dissemination and exploitation activities are designed, to mainstream and sustain good practices and so increase numbers opting for MST in schools, and ultimately increase the number of Europe's researchers and scientists.

Profile of Slovak Participant/ -s: The University of Zilina is a modern university providing technological, economic, management, and in a limited range humanistic and natural science education at under-graduate, graduate and post-graduate levels. At present, the University consists of seven faculties and seven institutes. Numerous international projects have been carried out successfully within the frame of various EU programmes, such as Tempus, Leonardo, Socrates, 5th, 6th, 7th Framework Program, etc. There is a broad cooperation based on bilateral agreements. The University has introduced sophisticated information system containing information about teachers, students, study programmes and plans, study results, etc. The University and its faculties have renewed the ISO 9001 certification for professional quality management.

SK Participant Project Cost: EUR 67 880

SK Participant EC Financial Contribution: EUR 39 321

Project Outcomes planned/real: The European Coordinating Body in Maths, Science and Technology Education (ECB) is a large-scale strategic response to the FP7 call to reinforce links between science education and science and technology careers in the private sector, through reinforcing the partnership industry/education. The overall aim of the ECB is to increase young Europeans' interest in mathematics, science and technology (MST) education and careers, addressing two challenges: the lack of interest in the subjects and the future skills gap (by 2020, there will be 20 million high-skilled jobs and 30 million medium-skilled jobs using MST in Europe). The partnership proposed for the ECB is a multi-stakeholder consortium of 28 partners in 16 countries, associating Ministries of Education, Businesses and Universities. Through innovative initiatives and coordinating and building on existing school/business partnerships in the field of MST education across Europe, the ECB will develop a repository of practice, disseminate and stimulate good practices in MST, and encourage new practices. Two key areas of work are a portal with a monitor of industry-education information, guidance and good practices in Europe and networks of over 1 000 primary and secondary schools which will validate the best practices, design a programme of activities and organise seminars for teachers on industry-education cooperation in MST education. A set of major dissemination and exploitation activities are designed, to mainstream and sustain good practices and so increase numbers opting for MST in schools, and ultimately increase the number of Europe's researchers and scientists. <http://www.ingenious-science.eu/>

Slovak Participant's Role in Project: The partnership proposed for the ECB is a multi-stakeholder consortium of 28 partners in 16 countries, associating Ministries of Education, Businesses and Universities. Through innovative initiatives and coordinating and building on existing school/business partnerships in the field of MST education across Europe, the ECB will develop a repository of practice, disseminate and stimulate good practices in MST and encourage new practices. Two key areas of work are a portal with a monitor of industry-education information, guidance and good practices in Europe and networks of over 1 000 primary and secondary schools which will validate the best practices, design a programme of activities and organise seminars for teachers on industry-education cooperation in MST education. A set of major dissemination and exploitation activities are designed to mainstream and sustain good practices and so increase numbers opting for MST in schools, and ultimately increase the number of Europe's researchers and scientists. <http://www.ingenious-science.eu/>

ESTABLISH

Project ID: 244749

Project Title: European Science and Technology in Action Building Links with Industry, Schools and Home

Project website: <http://www.establish-fp7.eu/>

Project Start Date: 2010-01-01

Project End Date: 2014-03-31

Project Total Cost: EUR 3 773 920

Project EC Financial Contribution: EUR 3 389 648

Slovak participant Name: UNIVERZITA PAVLA JOZEFA SAFARIKA V KOSICIACH, Pavol Jozef Šafárik University in Košice

Slovak participant address: Šrobárova 2, 041 80 Košice

Contact person email/ phone: Dr. Marián Kireš, +421 5 52 346 140, marian.kires@upjs.sk

Partners of the Consortium:

DUBLIN CITY UNIVERSITY - ÉIRE/IRELAND

UNIVERSITEIT VAN AMSTERDAM - NETHERLANDS

UNIVERZITA KARLOVA V PRAZE - CZECH REPUBLIC

UNIVERSITY OF CYPRUS - CYPRUS

MARTIN-LUTHER-UNIVERSITAET HALLE-WITTENBERG - GERMANY

AG EDUCATION SERVICES LTD - ÉIRE/IRELAND

LEIBNIZ-INSTITUT FÜR DIE PÄDAGOGIK DER NATURWISSENSCHAFTEN UND MATHEMATIK AN DER UNIVERSITÄT KIEL - GERMANY

ACROSSLIMITS LIMITED - MALTA

UMEA UNIVERSITET - SWEDEN

MESOKELAS LTD (FREDERICK UNIVERSITY) - CYPRUS

UNIVERSITA DEGLI STUDI DI PALERMO - ITALY

STICHTING CENTRUM VOOR MICRO-COMPUTER APPLICATIES - NETHERLANDS

MALMOE HOEGSKOLA (MALMOE UNIVERSITY) - SWEDEN

CARL VON OSSIETZKY UNIVERSITAET OLDENBURG - GERMANY

UNIwersytet Jagiellonski - POLAND

TARTU ULIKOOL - ESTONIA

UNIVERZITA PAVLA JOZEFA SAFARIKA V KOSICIACH, Pavol Jozef Šafárik University in Košice - SLOVAKIA

Project Description: ESTABLISH (European Science and Technology in Action: Building Links with Industry, Schools and Home) Project has received funding from the European Commission's Framework 7 Programme to actively engage and contribute to the mission of Science in Society.

ESTABLISH has, over its lifetime (2010-2014), facilitated and widened the use of inquiry-based science education (IBSE) for second level students (age 12-18 years) across Europe by bringing together, within a collaborative environment, the key stakeholders in science education to generate a suite of substantial teaching and learning materials (Units) as well as a series of educational supports for both in-service and pre-service teachers.

Specifically the ESTABLISH partners have sought to:

- Identify, develop and localise inquiry-based teaching and learning materials;

- Provide supports for teachers to successfully implement IBSE;

- Share inquiry approaches and learn from one another's experiences to promote IBSE across Europe;

- Stimulate student learning and promote careers opportunities in science to young people;

- Foster a mutually beneficial relationships between industrial, scientific, teaching and educational communities;

- Promote the experiential and educational benefits of IBSE.

The result of these collaborations have been a number of teaching and learning materials (ESTABLISH Units) enriched with industrial contexts and knowledge together with a series of educational supports for both in-service and pre-service teachers (ESTABLISH Teacher Education Programmes) designed to promote the use of Inquiry-Based Science Education (IBSE) in classrooms across Europe. In addition ESTABLISH co-hosted the international Science and Mathematics Education Conference in 2012 in Dublin. During this conference, teachers from each of the ESTABLISH beneficiary countries travelled to Dublin to share and learn from one another experiences of using inquiry in their classrooms.

Project Objectives: The aim of ESTABLISH is to facilitate and implement an inquiry based approach in the teaching and learning of science and technology across Europe, mainly focussed, through the collaborative actions of the consortium, on appropriate teacher education and support using trialled and tested resource material particularly suited to inquiry based teaching. Inquiry based teaching methodologies are encouraged to engage students in science and mathematics by increasing their interest in science and also by stimulating teacher motivation. However, widespread implementation of such a methodology will only occur with inclusion and participation of all partners in education, both formal and informal. ESTABLISH addresses this by drawing together over 60 partners from across 11 European countries to work together on a 48 month multidisciplinary project to encourage and promote the more widespread use of inquiry-based science teaching techniques in secondary schools through appropriate teacher education, creation of authentic learning environments and actions to bridge the gap between the science education research community, science teachers, students, parents, local industry as well as policy makers in order to facilitate the uptake of inquiry-based science teaching. The outcomes of this project will firstly be a large team of teachers across Europe who are skilled and confident in their delivery of inquiry based teaching. Further outcomes will be the identification of suitable model(s) of teacher education, at both pre- and in-service levels, for inquiry based teaching and also identification of best practice in guiding change through all the stakeholders involved in science and science education. Teachers are active partners as developers, researchers and agents so that real change in classroom practice can be achieved. ESTABLISH is committed to sharing and disseminating best practice in inquiry-based methods through European teacher networks, conferences and publications.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 237 807.2

SK Participant EC Financial Contribution: EUR 214 535

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EUCUNET

Project ID: 217810

Project Title: European Children's Universities Network

Project website: <http://eucu.net/>

Project Start Date: 2008-03-01

Project End Date: 2010-02-28

Project Total Cost: EUR 666 086.4

Project EC Financial Contribution: EUR 594 568

Slovak participant Name: ZDRUZENIE MAXA REINHARDTA

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UNIVERSITAET BASEL - SWITZERLAND

EBERHARD KARLS UNIVERSITAET TUEBINGEN - GERMANY

ZDRUZENIE MAXA REINHARDTA - SLOVAKIA

Project Description: The successful idea of Children's universities spread out. Up to now 100 Children's Universities filled 1.000.000 places with children aged from 7 to 12 years. But a European wide network does not exist and most of the Children's Universities are situated in German speaking countries. Each of the 100 Children's universities works solitary, as a single player and with a strong regional focus. Guidelines and quality criteria of established Children's Universities does not exist. Some selective efficiency analyses let us assume, that children change their mind on science sustainably, but an overview of research result is missing.

Project Objectives: Children's university is the most radical opening towards the general public that universities can undertake. If scientists provide lectures for children and children conquer auditories and laboratories, stereotyped images of science and scientists are knocked on the head immediately. New attractive and fascinating images of science and scientists appear. The first Children's university in Germany's Tübingen (2002), constituted a new format of science awareness activities, awarded with Descartes Prize for Science Communication.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 69 900

SK Participant EC Financial Contribution: EUR 62 327

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EUCYS 2012

Project ID: 316492

Project Title: European Union Contest for Young Scientists 2012

Project website: <http://www.eucys2012.eu/>

Project Start Date: 2012-01-10

Project End Date: 2013-01-09

Project Total Cost: EUR 850 400

Project EC Financial Contribution: EUR 600 000

Slovak participant Name: MLADI VEDCI SLOVENSKA

Slovak participant address: Saratovská 26/A, 841 02 Bratislava

Contact person email/ phone: Michal Šipoš, michal.sipos@mladivedci.sk

Partners of the Consortium: MLADI VEDCI SLOVENSKA- SLOVAKIA

Project Description: The European Union Contest for Young Scientists, an initiative of the European Commission, was set up in 1989 to promote the ideals of cooperation and interchange between young scientists. The Contest is the annual showcase of the best of European student scientific achievement and as such attracts widespread media interest. The 24th EU Contest of Young Scientists will be organised from 21st to 26th September 2012, in Bratislava, Slovak Republic, at Incheba Expo Bratislava. The Host organizer is Young Scientist of Slovakia in close cooperation with the Ministry of Education, Science, Research and Sport of the Slovak Republic.

The EU Contest gives students the opportunity to compete with the best of their contemporaries at European level. The young scientists also have the chance to meet others with similar abilities and interests and to be guided by some of the most prominent scientists in Europe. In this way, the Commission seeks to strengthen the efforts made in each participating country to attract young people for careers in science and technology. The EU Contest for Young Scientists is part of the Science in Society activities managed by the Directorate-General for Research and Innovation of the European Commission. Within the Framework Programmes for Research and Technological Development, and the European Research Area, Science in Society aims to build a more harmonious relationship between scientific endeavour and the European society at large.

Project Objectives: N/A

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 850 400

SK Participant EC Financial Contribution: EUR 600 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

EURECNET

Project ID: 244519

Project Title: European Research Ethics Committees' Network

Project website: <http://www.eurecnet.org/index.html>

Project Start Date: 2011-03-01

Project End Date: 2014-02-28

Project Total Cost: EUR 906 076

Project EC Financial Contribution: EUR 814 123

Slovak participant Name: USTAV MEDICINSKEJ ETIKY A BIOETIKY n.f., Institute of Medical Ethics and Bioethics, n. f.

Slovak participant address: Vysoká 32, 81106 Bratislava

Contact person email/ phone: Prof. Jozef Glasa, +421 905 208 146, jozef.glasa@szu.sk

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RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITAET BONN - GERMANY

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THE ASSOCIATION OF RESEARCH ETHICS COMMITTEES - UNITED KINGDOM

UNIVERSITE DE NEUCHATEL - SWITZERLAND

UNIVERSITAET BERN - SWITZERLAND

UNIVERSITAETSKLINIKUM BONN - GERMANY

INFARMED - AUTORIDADE NACIONAL DO MEDICAMENTO E PRODUTOS DA SAUDE IP - PORTUGAL

WARSZAWSKI UNIWERSYTET MEDYCZNY - POLAND

NATIONAL TSING HUA UNIVERSITY - TAIWAN

UNIVERSITETET I OSLO - NORWAY

LIETUVOS BIOETIKOS KOMITETAS - LITHUANIA

HELSINGIN YLIOPISTO - SUOMI/FINLAND

ROYAL COLLEGE OF SURGEONS IN IRELAND - ÉIRE/IRELAND

COMITE DE PROTECTION DES PERSONNES SUD EST III - FRANCE

CENTRALA ETIKPROVNINGSNAMNDEN - SWEDEN

MEDIZINISCHE UNIVERSITAET GRAZ - AUSTRIA

UNIVERSITEIT MAASTRICHT - NETHERLANDS

NEDERLANDSE VERENIGING VAN MEDISCH-ETISCHE TOETSINGSCOMMISSIES - NETHERLANDS

TARTU ULIKOOL - ESTONIA

DEN CENTRALE VIDENSKABSETISKE KOMITE - DENMARK

USTAV MEDICINSKEJ ETIKY A BIOETIKY n.f., Institute of Medical Ethics and Bioethics, n. f.- SLOVAKIA

Project Description: EURECNET is a network that brings together national REC associations, networks or comparable initiatives but also other bodies relevant in the field of research involving human participants like National Ethics Councils and the European Commission's ethical review system. Such a network forms the infrastructural basis to promote awareness of specific working practices of RECs across Europe, to enhance the shared knowledge base of European RECs, to support coherent reviews and opinions and to meet new challenges and emerging ethical issues.

Project Objectives: The central objective of EURECNET as a Coordinating Action is to foster the already existing network of European REC networks (in short "EUREC"). In particular, the contribution of EURECNET aims at five different levels: - fostering a sustainable infrastructure for European RECs (including a statute and a secretariat) to promote exchange and cooperation and to allow for international cooperation; - gathering information on RECs in Europe to build a basis for mutual exchange - collecting and evaluating training materials for REC members to enhance the quality of review; - conducting capacity building to facilitate the development of national REC networks (as future partners of EUREC); - identifying emerging ethical issues to develop common solutions for challenges posed by new technologies and scientific methodologies.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 45 000

SK Participant EC Financial Contribution: EUR 40 125

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

FIBONACCI

Project ID: 244684

Project Title: The FIBONACCI Project - Large scale dissemination of inquiry based science and mathematics education

Project website: <http://fibonacci-project.eu/>

Project Start Date: 2010-01-01

Project End Date: 2013-02-28

Project Total Cost: EUR 5 343 519.52

Project EC Financial Contribution: EUR 4 784 597

Slovak participant Name: TRNAVSKA UNIVERZITA V TRNAVE, Trnava University in Trnava

Slovak participant address: Hornopotočná 23, 918 43 Trnava

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UNIVERSIDAD DE CANTABRIA - SPAIN
UNIVERSITAET KLAGENFURT - AUSTRIA
FREIE UNIVERSITAET BERLIN - GERMANY
UNIVERSITE LIBRE DE BRUXELLES - BELGIUM
UNIVERSITAET AUGSBURG - GERMANY
UNIVERSITAET ZUERICH - SWITZERLAND
HELSINGIN YLIOPISTO - SUOMI/FINLAND
UNIVERSITAET BAYREUTH - GERMANY
UNIVERZA V LJUBLJANI - SLOVENIA
INSTITUT ZA NUKLEARNE NAUKE VINCA - SERBIA
UNIVERSITY OF PATRAS - GREECE
TARTU ULIKOOL - ESTONIA
UNIVERSITE DU LUXEMBOURG - LUXEMBOURG (GRAND-DUCHÉ)
JIHOCESKA UNIVERZITA V CESKYCH BUDEJOVICICH - CZECH REPUBLIC
ECOLE NATIONALE SUPERIEURE DES TECHNIQUES INDUSTRIELLES ET DES MINES DE NANTES - FRANCE
INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU FIZICA LASERILOR PLASMEI SI RADIATIEI - ROMANIA
KUNGLIGA VETENSKAPSAKADEMIEN - SWEDEN
INSTITUTE OF MATHEMATICS AND INFORMATICS AT THE BULGARIAN ACADEMY OF SCIENCE - BULGARIA
PROFESSIONSHOJSKOLEN SYD UNIVERSITYCOLLEGE - DENMARK
CIENCIA VIVA-AGENCIA NACIONAL PARA A CULTURA CIENTIFICA E TECNOLOGICA - PORTUGAL
ST PATRICK'S COLLEGE DRUMCONDRA - ÉIRE/IRELAND
UNIVERSITEIT VAN AMSTERDAM - NETHERLANDS
STICHTING HOGESCHOOL VAN AMSTERDAM - NETHERLANDS
TRNAVSKA UNIVERZITA V TRNAVE, TRNAVA UNIVERSITY IN TRNAVA - SLOVAKIA

Project Description: Funded by the European Union under the 7th Framework Programme (for research and technological development), and supervised by a high level scientific committee, the Fibonacci project aims at a large dissemination of inquiry-based science and mathematics education (IBSME) in Europe, through the tutoring of institutions in progress (universities, teachers training centres, research institutions, etc.), by institutions with high recognition in science education. The Fibonacci Project will enable to define a blueprint for a transfer methodology, valid for a larger dissemination in Europe. The project began in January 2010 and it will last 38 months, until February 2013. In the end, 60 tertiary education institutions throughout Europe will be involved, reaching a minimum of 3 000 teachers and 45 000 students.



DISSEMINATING INQUIRY-BASED SCIENCE
AND MATHEMATICS EDUCATION IN EUROPE

Project Objectives: The FIBONACCI project defines a dissemination process from 12 Reference Centres to 24 Twin Centres, based on quality and global approach. This will be done through the pairing of the former, selected for their large school-coverage and capacities for transfer of IBSME, with 12 Twin Centres 1 and 12 Twin Centres 2. These will receive training and tutoring for 2 years, which will in turn become Reference Centres, and start disseminating. Transversal work between partners is organised through 5 major topics, which will be explored through European training sessions and will lead to European guidelines, in order to structure a common approach at European level. An external evaluation will be done to check achievement and quality. FIBONACCI will thus lead to the blueprint of a transfer methodology, valid for further Reference centre building in Europe. The project will be coordinated for 36 months by the Superior Normal School (France), with a shared scientific coordination with Bayreuth University. The Consortium will include 24 members from over 21 countries, with endorsement from major institutions.

Profile of Slovak Participant/ -s: The Faculty of Education at Trnava University is the most prestigious pedagogical institute for pre-service teacher training in Slovakia, and a well-known institute aiming at a meaningful implementation of innovations into educational system. Universities are the only institutes which can provide valid in-service training aimed at a teachers' career development in Slovakia. For these two reasons, the Faculty of Education at Trnava University has the potential of creating a great impact on the way the traditional science education can be changed. The Faculty of Education at Trnava University has a solid background in encouraging further development of education innovation (including the current mainstream tendency toward Inquiry Based Science Education - IBSE) all over Slovakia, due to its long experience concerning constructive principles applied in science education at primary school level. The Faculty of Education has been developing new inductive-oriented learning concept for science education for about 20 years, and according to its rich research experience in this area, researchers from the Faculty have been nominated to positions of expert supervisors, responsible for national science education curriculum reconstruction (at the National Institute of Pedagogy). Two departments of the Faculty are mainly working on the IBSE topic related to Fibonacci project: Department of Chemistry (<http://katchem.truni.sk/>) and Department of School Pedagogy (<http://pdf.truni.sk/katedry/~ksp/>).

SK Participant Project Cost: EUR 205 683.74

SK Participant EC Financial Contribution: EUR 185 243

Project Outcomes planned/real: the Fibonacci project was aimed at the design, implementation and testing of the process of dissemination in Europe of inquiry-based teaching and learning methods in science and mathematics. European authorities and the international scientific community acknowledge the importance of Inquiry-Based Science and Mathematics Education (IBSME) to develop an integrated strategy for scientific literacy and awareness from primary to secondary school, reinforcing scientific careers. Europe is now facing an urgent need to disseminate such approaches, and enable all member states to have access, understand and implement them in a way that fits their own specificities. To go beyond best practices sharing and to provide effective know-how transfer at European level requires a dissemination model based on a systematic approach of IBSME at grassroots level, ensured by intermediary structures with successful experience in local IBSME implementation. The FIBONACCI project defines a dissemination process from 12 Reference Centres to 24 Twin Centres, based on quality and global approach. This has been done through the pairing of the former, selected for their large school-coverage and capacities for transfer of IBSME, with 12 Twin Centres 1 and 12 Twin Centres 2. These received training and tutoring for 2 years, which will in turn become Reference Centres, and start disseminating.

Slovak Participant's Role in Project: According to previous rich experience in development innovations in science education, Faculty of Education played a role of one of the 12 Reference Centres, with the main role of forwarding experience through teaching and tutoring in Inquiry Based Science Education to associated, less experienced Twin Centres. During the project, many teachers have been trained in the innovative concept of teaching science at primary age, with respect to European tendency for scientific literacy development. The project developed and disseminated very precisely elaborated constructivist concept of teaching, based on inductive thinking during the development of science concepts. The project highlighted the importance of work with in-service teachers. On national level, the project helped to re-construct national science curriculum on ISCED 0 and 1 levels, so the goals oriented to development of science process skills are implemented and highlighted accordingly. Thanks to Fibonacci project, IBSE concept of teaching could be widely distributed to schools and the real development of scientific literacy can start. In this case, we can trigger sustainable application of IBSE into formal science education in Slovakia not only now, but also in the future.

GENDERA

Project ID: 244499
 Project Title: Gender Debate in the European Research Area
 Project website: <http://www.tetalap.hu/>
 Project Start Date: 2009-11-01
 Project End Date: 2012-04-30
 Project Total Cost: EUR 1 030 585
 Project EC Financial Contribution: EUR 798 666
 Slovak participant Name: UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, Matej Bel University in Banská Bystrica
 Slovak participant address: Národná 12, 974 01 Banská Bystrica
 Contact person email/ phone: doc. PhDr. Alexandra Bitušiková, CSc., +421 48 446 6214, alexandra.bitusikova@umb.sk
 Partners of the Consortium:
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 AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA - ITALY
 INSTITUT JOZEF STEFAN - SLOVENIA
 JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFT MBH - AUSTRIA
 ETHNIKO IDRYMA EREVNON - GREECE
 FUNDACIO CENTRE D'INICIATIVES I RECERQUES EUROPEES A LA MEDITERRANIA - CIREM - SPAIN
 ORT BRAUDE COLLEGE - ISRAEL
 STEINBEIS INNOVATION GGMBH – GERMANY
 UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, MATEJ BEL UNIVERSITY IN BANSKÁ BYSTRICA- SLOVAKIA

Project Description: Despite their increasing participation in higher education and research, women are significantly underrepresented in certain disciplines and remarkably few women remain in top jobs in science. As attracting the best researchers with proportional representation of women and men is integral to the success of ERA and essential for the competitiveness of Europe, it is vital to ensure gender balance in research by changing the way of recruitment and career development. Based on available analyses and recommendations aimed to improve the situation of women in science, GENDERA will identify and discuss good practices of gender balance on national and European levels by networking and in workshops.

Project Objectives: The project will demonstrate the factors that limit the participation of women in specific scientific fields, as well as in decision making positions, and introduce real-life implementation examples to top decision makers of research and higher education institutions. Using a shared Communication Plan, GENDERA partners will persuade the above leaders that the critical review and change of institutional recruitment, promotion and nomination policies and their gender-related aspects will contribute to the scientific, professional and economic success of their organisations. The understanding of this correlation will result in the commitment of the national actors, who are in the position to advance the situation of women in research, with special emphasis on their representation in research management. Practical guidelines including recommendations and “model gender policies” will be developed during the project. The final European conference will discuss the results of the project. GENDERA will contribute to change of the conscious/unconscious “male-is-better” attitude widespread in research organisations, it will foster improvements in the representation of women in decision making bodies, and thus increase the possibility to make their voices heard on a national level.



Profile of Slovak Participant/ -s: Univerzita Mateja Bela v Banskej Bystrici (Matej Bel University in Banská Bystrica, UMB) was established in 1992 as a public university. It consists of six faculties with almost 600 academic employees and approximately 10 500 students. The university has signed collaborative agreements with more than 30 universities worldwide. In 2013, UMB successfully passed certification audit of the quality system, as required by the international standard ISO 9001:2008. International research collaboration has been rapidly developing in recent years. Most of international (mainly FP) projects have been carried out by the Centre for Science and Research and its institutes. The Institute of Social and Cultural Studies of the Faculty of Arts (part of the Centre) has been participating in FP projects successfully since 2002. The research team of social scientists focuses on several thematic areas: urban studies, diversity, identity, gender, gender and science, mobility and cultural heritage.

SK Participant Project Cost: EUR 53 760

SK Participant EC Financial Contribution: EUR 49 106

Project Outcomes planned/real: The GENDERA project (Gender Debate in the European Research Area) focused on the gender equality and participation of women in higher education and research institutions, which is considered an integral part of the success of ERA, and essential for the competitiveness of Europe. Based on available policy analyses and recommendations aimed to improve the situation of women in science, GENDERA project partners from 9 countries identified and collected good practices of gender balance on national and European levels, by networking and in workshops. The project demonstrated the factors that limit the participation of women in specific scientific fields, as well as in decision making positions, and introduced real-life implementation examples to top decision makers of research and higher education institutions. Practical guidelines and recommendations were developed at the European, as well as national level, and disseminated to all relevant actors. The final European conference discussed the results of the project.

Slovak Participant's Role in Project: The Institute of Social and Cultural Studies of UMB was involved in all work packages, and it was responsible for the creation and management of national Task Force, organisation of an international conference on gender and funding, of a project meeting and of a national conference. The institute published conference proceedings, Guidelines and Recommendations to higher education and research institutions.

GENOVATE

Project ID: 321378
 Project Title: Transforming organisational culture for gender equality in research and innovation
 Project website: <http://www.genovate.eu/>
 Project Start Date: 2013-01-01
 Project End Date: 2016-12-31
 Project Total Cost: EUR 3 185 139.6
 Project EC Financial Contribution: EUR 2 200 332
 Slovak participant Name: TRNAVSKA UNIVERZITA V TRNAVE, Trnava University in Trnava
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 UNIVERSIDAD COMPLUTENSE DE MADRID - SPAIN
 ANKARA UNIVERSITESI - TURKEY
 UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II. - ITALY
 LULEA TEKNISKA UNIVERSITET - SWEDEN
 TRNAVSKA UNIVERZITA V TRNAVE, TRNAVA UNIVERSITY IN TRNAVA- SLOVAKIA

Project Description: GENOVATE is a FP7-funded [under Science in Society SiS 2012. 2.1.1-1 programme] action research project which is coordinated and led by Professor Uduak Archibong of the University of Bradford. GENOVATE operates across seven European partner institutions; each of which have different institutional and national contexts for gender equality.

GENOVATE seeks to ensure equal opportunities for women and men by encouraging a more gender-competent management in research, innovation and scientific decision-making bodies, with a particular focus on universities.

Project Objectives: The core aims are;

To implement innovative and sustainable strategies for change in universities and research organisations to better support gender diversity and equal opportunities

To promote the ways in which gender equality and diversity benefit excellence in research and innovation

To facilitate meaningful knowledge exchange between European universities with very different levels of experience

To develop and widely disseminate a sound management approach for abolishing gender inequalities and contributing to the improvement of working conditions for male and female researchers

GENOVATE seeks to implement strategies for the transformation of organisational structures towards more gender-competent management. The core goals are:

Implementation of Gender Equality Action Plans with sustainable strategies within each partner institution

Development of a Social Model of Gender Equality

Implementation for wider application to other organisations and stakeholders

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 123 210

SK Participant EC Financial Contribution: EUR 86 247

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

GENPORT

Project ID: 321485

Project Title: An internet portal for sharing knowledge and inspiring collaborative action on gender and science

Project website: <http://www.genderportal.eu/>

Project Start Date: 2013-05-15

Project End Date: 2017-05-14

Project Total Cost: EUR 1 673 376.49

Project EC Financial Contribution: EUR 1 496 372

Slovak participant Name: UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, Matej Bel University in Banská Bystrica

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OREBRO UNIVERSITY - SWEDEN

PORTIA - UNITED KINGDOM

FONDAZIONE GIACOMO BRODOLINI - ITALY

GESIS - LEIBNIZ INSTITUT FÜR SOZIALWISSENSCHAFTEN E.V. – GERMANY

UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, MATEJ BEL UNIVERSITY IN BANSKÁ BYSTRICA- SLOVAKIA

Project Description: GenPORT is a developing online community of practitioners, served by an internet portal and made up of organisations and individuals working across the globe for gender equality and excellence in science, technology or innovation. GenPORT covers all sciences - natural and social sciences, as well as humanities.

GenPORT offers an arena for organisations and individuals to showcase and access the world's best research resources, practical materials, policy briefings, experience, and much more. Constantly evolving online information and services will be shaped by the activities and contributions of community members.

Project Objectives: Our project creates an internet portal that fulfils this need. Based on extensive consultations with leaders in the field, we will develop an open entry-point to high-quality research, policy reports and practical resources on gender, science, technology and innovation. Five major European country clusters, representing the main gender and science policy environments, will provide resources for initial dissemination, and provide the platform for growing the collection worldwide. Policy support will be provided through research syntheses and ICT-enhanced policy briefings. To ascertain the enabling factors for the portals' sustainability, we will engage stakeholders early on and often, leading to a wider strategy of sustainability, focusing on crowd-sourcing the portal: drawing stakeholders in, sharing knowledge, creating web tools to add value to resources, and exploiting social media to boost the impact of key messages. On-line community activities will generate demand for and use of the portal; 4 concentration meetings and stakeholder events will create synergies for increased collaborations; 20 genPORT ambassadors will promote the portal internationally; and, targeted sustainability actions will attract post-project

sponsorship. Our portal, showcasing a vast array of resources and innovative user interaction, will boost practical and policy action by illuminating the contribution of gender equality to science excellence.

Profile of Slovak Participant/ -s: Univerzita Mateja Bela v Banskej Bystrici (Matej Bel University in Banská Bystrica, UMB) was established in 1992 as a public university. It consists of six faculties with almost 600 academic employees and approximately 10 500 students. The university has signed collaborative agreements with more than 30 universities world-wide. In 2013, UMB successfully passed certification audit of the quality system as required by international standard ISO 9001:2008. International research collaboration has been rapidly developing in recent years. Most of international (mainly FP) projects have been carried out by the Centre for Science and Research and its institutes. The Institute of Social and Cultural Studies of the Faculty of Arts (part of the Centre) has been participating in FP projects successfully since 2002. The research team of social scientists focuses on several thematic areas: urban studies, diversity, identity, gender, gender and science, mobility and cultural heritage.

GenPORT

SK Participant Project Cost: EUR 143 195.6

SK Participant EC Financial Contribution: EUR 128 549.27

Project Outcomes planned/real: The overall objective of the genPORT project is to develop an internet portal which coordinates and communicates the results, networking and knowledge of national and European research projects and policy initiatives on gender and science, creates a sustainable community of practice, and promotes worldwide awareness and collaboration in the pursuit of gender equality in science, technology and innovation.

The specific objectives:

1. To provide co-ordinated access to the range of high-quality research, policy and practical resources, which have been developed through European and most relevant international research on gender, science, technology and innovation, through a dedicated internet portal;
2. To increase the visibility, accessibility and usability of these resources, by classifying and organizing them according to the reported needs of targeted stakeholders;
3. To promote exchange of experiences and collaboration between communities of practitioners, through a social media layer in the portal, and through briefings for policy makers;
4. To make the portal and the community of practice sustainable both for current and future users, in organisational, technical and financial terms. The GenPORT portal will serve as the key source of information on gender and science in the Horizon 2020. The project involves 7 European countries.

Slovak Participant's Role in Project: The Institute of Social and Cultural Studies of UMB is involved in all work packages and is responsible for the Work Package 6 (Dissemination) and Task 5.4 in Work Package 5 (Stakeholder events and calendar). The main tasks within these work packages are collecting and updating information on dissemination activities of all partners, collecting information about stakeholder events related to gender and science (world-wide), and updating the events calendar.

SPECIFIC PROGRAMME CAPACITIES

CHREACT

Project ID: 321278

Project Title: Chain Reaction: A Sustainable Approach to Inquiry Based Science Education

Project website: <http://www.chreact.eu/>

Project Start Date: 2013-06-01

Project End Date: 2016-05-31

Project Total Cost: EUR 4 040 400

Project EC Financial Contribution: EUR 3 601 587.75

Slovak participant Name: UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, Matej Bel University in Banská Bystrica

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TECHNISCHE UNIVERSITAET DORTMUND - GERMANY

UNIVERZA V LJUBLJANI - SLOVENIA

JORDAN SOCIETY FOR SCIENTIFIC RESEARCH - JORDAN

TED UNIVERSITESI - TURKEY

ILIA STATE UNIVERSITY*ILIAUNI - GEORGIA

UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II. - ITALY

PANEPISTIMIO KRITIS (UNIVERSITY OF CRETE) - GREECE

UNIVERSITY OF LIMERICK - ÉIRE/IRELAND

UNIVERSITY OF PLOVDIV - BULGARIA

CENTRE INTERNATIONAL DE FORMATION PEDAGOGIQUE - CIFOP SA - FRANCE

UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, MATEJ BEL UNIVERSITY IN BANSKÁ BYSTRICA- SLOVAKIA

Project Description: Chain Reaction is a three-year project funded by the European Commission. It aims to develop Inquiry Based Science Education (IBSE) across twelve partner countries. The project will provide interactive and engaging IBSE professional development to teacher education professionals from each participating country, using tried and tested inquiry based science resources. Participating teachers will in turn be briefed through a dedicated course in each partner country. Once fully confident with the IBSE approach encouraged by Chain Reaction, the participating teachers will deliver a series of exciting and student-focussed lessons, which explore research-based projects.

Project Objectives: The key aim is to equip teacher educators to train teachers across the twelve countries in the use of IBSE materials and techniques. Each country will adapt materials and techniques for use in their own country, addressing issues of different curricula and cultures as necessary. This will ensure that each partner will have ownership of resources and classroom techniques suitable for their own situation and contexts, but based around the proven principles of IBSE, and based on materials that have already been tried and tested as part of the original Pupil Researcher Initiative (PRI) project.

Chain Reaction will also establish a European teachers' network, aimed at providing support to teachers, sharing experience and expertise between teachers and training experts. This will help develop the work of the project

through delivery, and will also contribute to a long-term sustainability. The network will aid dissemination of the project resources and outcomes, while enabling peer support both within each year of the project, and across the project as a whole. This will ensure sharing, reflection and discussions of experience and approaches. The teacher training, materials and instruction given will be delivered via a cascade approach within schools.



Chain Reaction

Profile of Slovak Participant/ -s: The core of the Chain Reaction project working group from **Matej Bel University Banská Bystrica** comes from the Physics Department of the Faculty of Natural Sciences of UMB. The team builds upon a 60-year experience in the development of science education and training of teachers for science subjects. The team lead by prof. Stanislav Holec has received remarkable achievements in the field of curriculum innovations and incorporating IT based methods into science subjects at all levels. Its research is focused mainly on integration approaches in science education, physics experiments and new methods in physics teaching, especially active learning strategies and inquiry-based methods. The team has developed the e-portal *Virtual physics lab*, which serves both the teachers and the students as a source of material and ideas of good practise in a science class. The group pays a great attention to popularisation of physics through various activities, including workshops for teachers and students, Researcher's night etc., and also organises special seminars for pupils talented in physics.

Key members of the team:

Dr Janka Raganová – National Project Coordinator and Manager, responsible for project evaluation and dissemination.

Prof. Stanislav Holec – Vice-rector of Matej Bel University Banská Bystrica, Project Management Board Member. Dr Miriam Spodniaková Pfefferová – Head of Physics Department, Technical Board Member responsible for teacher briefing, web site and development of teaching/ learning materials using inquiry-based approaches in science classrooms at national level.

Dr Martin Hruška – Technical Board Member, responsible for teacher training and in-school delivery of the project.

SK Participant Project Cost: EUR 246 996

SK Participant EC Financial Contribution: EUR 219 985.68

SPECIFIC PROGRAMME CAPACITIES



Project Outcomes planned/real: Chain Reaction is a three-year project that aims to develop Inquiry Based Science Education (IBSE) across twelve partner countries. The project provides interactive and engaging IBSE professional development to teacher education professionals from each participating country, using tried and tested inquiry based science resources. Participating teachers are in turn briefed through a dedicated course in each partner country. Once fully confident with the IBSE approach encouraged by Chain Reaction, the participating teachers deliver a series of exciting and student-focused lessons, which explore research-based projects.

Using critical thinking, reasoning and problem solving skills, students belonging to the 14-16 age group work together, to research scientific scenarios. Their work is summarized in presentations that are shared at national student celebration events. The student presentations encourage students to analyse the inquiry processes they engaged in, and to share their findings, whilst being creative and imaginative during their presentations. The national events also engage practicing scientists (early year science professionals or PhD students), who act as role models for the school students, and share their work to inform and encourage young people to consider science related careers. Three international conferences follow the national conferences, and showcase the work of students of the selected school from each partner country.

The project also provides a strong and sustainable IBSE framework both for teacher educators and for teachers, along with resources tailored to each partner's individual cultural and curricular needs. Science teachers are able to build their knowledge and skills and learning independently, as well as being part of a wider teacher network.

Slovak Participant's Role in Project: The main tasks of Slovak team within the Chain reaction project include:

- Development of teaching/learning materials using inquiry-based approaches to science education.
- Teacher training. The team will train ten science teachers from five schools each year. The training equips the teachers with the knowledge and skills to use IBSE effectively in the classroom.
- In-school delivery. Participating teachers deliver IBSE techniques in the classroom, during which the participating students work in groups, in order to undertake exciting scientific investigations, based on realistic scenarios. The team from UMB provides a vital support to teachers by visiting schools and working with students in laboratories at schools and at the Faculty.
- Organizing national conferences – celebration events, allowing students to showcase and communicate their work as part of the Chain Reaction project.
- Dissemination of project findings and strategies in Slovakia and abroad.

Detailed information of Chain Reaction activities in Slovakia can be found at www.chreact.umb.sk.



INPROFOOD

Project ID: 289045

Project Title: Towards inclusive research programming for sustainable food innovations

Project website: <http://www.inprofood.eu/>

Project Start Date: 2011-11-01

Project End Date: 2014-10-31

Project Total Cost: EUR 4 553 171.4

Project EC Financial Contribution: EUR 3 893 991

Slovak participant Name: UNIVERZITA KOMENSKÉHO V BRATISLAVE, Comenius University in Bratislava

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Contact person email/phone: doc. PhDr. Zuzana Kiczková, PhD., kiczkova@fphil.uniba.sk/+421 2 59244146

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- ASSOCIATION AGROPOLIS INTERNATIONAL - FRANCE
- ASOCIACION EMPRESARIAL DE INVESTIGACION CENTRO TECNOLOGICO NACIONAL AGROALIMENTARIO EXTREMADURA - SPAIN
- UNIVERSITEIT MAASTRICHT - NETHERLANDS
- EUROPEAN FOOD INFORMATION COUNCIL AISBL - BELGIUM
- SOCIEDADE PORTUGUESA DE INOVACAO - CONSULTADORIA EMPRESARIAL E FOMENTO DA INOVACAO S.A. - PORTUGAL
- ROWE EUGENE JOHN - GENE ROWE EVALUATIONS - UNITED KINGDOM
- KOBENHAVNS UNIVERSITET - DENMARK
- BUCKENHUSKES HERBERT JOHANNES - GERMANY
- UNIVERSITY OF SURREY - UNITED KINGDOM
- WISSENSCHAFTSLADEN WIEN - VEREIN ZUR FORDERUNG DER ZUSAMMENARBEIT ZWISCHEN BERGERINNEN UND WISSENSCHAFTLERINNEN - AUSTRIA
- FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS - GREECE
- OBSERVA - ITALY
- DIALOGIK GEMEINNUETZIGE GESELLSCHAFT FUER KOMMUNIKATIONS- UND KOOPERATIONSFORSCHUNG MBH - GERMANY
- WORLD HEALTH ORGANIZATION. - SWITZERLAND
- ASSOCIATION EUROPEENNE DES EXPOSITIONS SCIENTIFIQUES, TECHNIQUES ET INDUSTRIELLES - BELGIUM
- HACETTEPE UNIVERSITESI - TURKEY
- UNIVERZITA KOMENSKÉHO V BRATISLAVE, COMENIUS UNIVERSITY IN BRATISLAVA-SLOVAKIA

Project Description: INPROFOOD is determined to tackle its hugely ambitious task during 3 years of intensive activities. Its aim is to foster a dialogue and mutual learning between industry, academia and civil society in the earliest stages of the research processes, directed towards developing innovative approaches (technical and social) for dealing with the food and health challenge. INPROFOOD was established on the basis that social discourse among research institutions, industry and civil society is to be considered a basic pre-requisite for moving towards a more reliable and achievable vision.

Project Objectives: One of the main questions that this research needs to tackle is the role that innovations in foods (e.g., improved nutrient preservation through the use of mild pathogen inactivation) and new basic research technologies (e.g., for gaining greater insight and understanding of the

mechanisms underlying the effects of food intake on health) could play in counter-acting the alarming rise of food-related health problems. Advocating and promoting the production of knowledge that is close to the concerns of European citizens, the European Commission has emphasized that simply inventing new technologies is not enough to overcome the pressing societal challenges in Europe (European Commission 2009). In the first place, it requires a purposeful communication between research, business, and civil society actors on the nature of the problem, and on the role that innovative products and technological approaches (besides or complementary with social measures) could play in tackling it.

Profile of Slovak Participant/ -s: Gender Studies Centre was established in June 2001 at the Faculty of Philosophy at Comenius University in Bratislava, as the first institution focused on educational and research activities of its kind in Slovakia. The subject of its interest is the issues of gender identity, gender-specific differences and symbols, which structure the nature of relationships between women and men in a fundamental way and/or cause inequality between them.

SK Participant Project Cost: EUR 154 800

SK Participant EC Financial Contribution: EUR 138 355

Project Outcomes planned/real: INPROFOOD has been designed and aims to contribute to the adaptation of the governance of research and technological development in the area of food and health, to facilitate sustainable and inclusive solutions. The project is also expected to: help further incorporate science in society issues into the systems of research; contribute to an improved transnational cooperation; provide experiential feedback to underpin the policy debate on a "new social contract" between science and society, by providing evidence on societal demands to support practical guidelines for inclusive, sustainable research designs. Outcomes of the project are available on the project website (www.inprofood.eu).

Slovak Participant's Role in Project: The main task of the Comenius University was to organise three national European Awareness Scenario Workshops in Slovakia. The aim of the workshops was to foster networking between researchers, research funding organizations, health professionals, food industry, policy makers, CSOs, communication professionals at the national level, and to mobilize an exchange between them. Besides that, a review study on research programming in Slovakia was drafted, and a series of interviews with the stakeholders was carried out, with the aim to map the process of research priorities setting in Slovakia. The project team also collaborated on common project activities. The project has just entered the dissemination phase, under which its results will be distributed towards different stakeholders in Slovakia.

ISWA

Project ID: 266656

Project Title: Immersion in the Science Worlds through Arts

Project website: <http://www.univpm.it/Entra/>

Project Start Date: 2011-03-01

Project End Date: 2013-02-28

Project Total Cost: EUR 1 225 522.4

Project EC Financial Contribution: EUR 1 103 791

Slovak participant Name: USTAV MATERIALOVEHO VYSKUMU SLOVENS KEJ AKADEMIE VIED, Institute of Materials Research, Slovak Academy of Sciences

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SIAULIU UNIVERSITETAS - LITHUANIA

TECHNISCHE UNIVERSITAET WIEN - AUSTRIA

UPPSALA UNIVERSITET - SWEDEN

UNIVERSITAET ZUERICH - SWITZERLAND

UNIVERSIDADE DO MINHO - PORTUGAL

USKUPENI TESLA OBCANSKE SDRUZENI - CZECH REPUBLIC

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UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II. - ITALY

INSTALLATION EUROPEENNE DE RAYONNEMENT SYNCHROTRON - FRANCE

CENTRE BIOENGINEERING OF THE RUSSIAN ACADEMY OF SCIENCES - RUSSIA

PANEPISTIMIO IOANNINON - GREECE

INSTYTUT PODSTAWOWYCH PROBLEMOW TECHNIKI POLSKIEJ AKADEMII NAUK - POLAND

POLAND

SIMPLEWARE LIMITED - UNITED KINGDOM

USTAV MATERIALOVEHO VYSKUMU SLOVENS KEJ AKADEMIE VIED, INSTITUTE OF MATERIALS RESEARCH, SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

Project Description: When art and science join hands, students can potentially learn about complex scientific subjects in a much more creative and stimulating way. The EU-funded project 'Immersion in the science worlds through arts' (ISWA) enabled students to use different arts to understand scientific phenomena at a professional level. The project also organised an international competition that encouraged students of EU schools to produce a complex artistic rendition on a scientific theme.

Specifically, the project team focused on using modern dance, cinema, literature, imaging and contemporary art to portray complex science. It launched the competition in different EU countries, targeting high school students between the ages of 15 and 19 and reaching out to the general public.



The project brought together scientists, artists, film directors, actors, musicians and specialists in different fields. Universities, research institutions, dance schools, theatres and museums were involved. The well-known European Synchrotron Radiation Facility, which hosts thousands of scientists and Nobel Prize winners, also played a part in the project.

Project Objectives: The objective of the project is to use art to communicate emotions related to the understanding of nature, and to stimulate students to create artistic initiatives able to demonstrate commonalities of artistic and scientific fascination. The objective will be pursued according to two strictly related aspects:

- 1) produce artistic works based on scientific phenomena at a professional level;
- 2) stimulate students of EC schools to produce their own works and to organize an international competition to award the best ones. (We consider this a form of a very deep and long lasting interactive action that we prefer to the sometimes superficial and ephemeral interactive processes, available in some science popularization exhibitions). The project actually intends to realize artistic events based on scientific issues, in each of the following artistic disciplines:
 - 1) Modern dance
 - 2) Cinema
 - 3) Contemporary art
 - 4) Imaging
 - 5) Literature.

The produced art work will be exploited in a two ways:

- a) By presenting them in live events in the different countries involved in the project addressing not only the targeted category of people (high school students (15-18 years), but also the general public;
- b) By organizing a competition among EU high school students for each of the 5 considered disciplines (with a consequent interactive process, involving potentially thousands of students).

The consortium includes several scientists, artists, art critics, film directors, actors, musicians and specialists in science popularization, who will work together to achieve the above-mentioned goals. The activities will be coordinated by a project leader, who is, at the same time, a well-known scientist and a person who has long been active in several artistic activities. Universities, research institutes, dance schools, museums, and theatres will also be involved, together with the famous European Synchrotron Radiation Facility, which hosts every year thousands scientists, including many Nobel Prize winners.

Profile of Slovak Participant/ -s: During its 55 years of existence, the Institute of Materials Research, Slovak Academy of Sciences, Kosice, SK (IMRSAS) has become one of the leading institutions of Central Europe in the field of powder technologies/materials, nanomaterials and ceramic matrix composites. The scientific orientation of the Institute (84 members of staff, incl. 3 Professors, 5 DrSc., 33 PhD.) is focused on the development and testing of new materials (physical and mechanical properties and the deformation and fracture characteristics of different materials at low, room, and high temperatures), and of new technologies with potential applications in transportation, energy, information technology, etc. The Institute collaborates with a number of European institutions in the frame of different EC, COST, NATO, Royal Society etc. Projects, and organizes different international conferences and meetings. The Department of Structural Ceramics will be mostly involved in the Project by providing its expertise in the following research fields: Microstructure and mechanical properties of silicon nitride based monolithic ceramics, ceramic matrix composites, nano-composites, layered composites and coatings, High temperature characteristics of brittle materials/creep, slow crack growth, oxidation, etc; Fractographic failure analysis of brittle materials, Prediction of the life-time and reliability of brittle materials, Pre-standardization and standardization activities in the frame of ESIS and VAMAS.

SK Participant Project Cost: EUR 16 640

SK Participant EC Financial Contribution: EUR 14 923

Project Outcomes planned/real: The objective of the project was to use art to communicate emotions related to the understanding of nature, and stimulate students to create artistic initiatives able to demonstrate commonalities of artistic and scientific fascination. The objective was pursued according to two strictly related aspects:

1. produce artistic works based on scientific phenomena at a professional level
2. stimulate students of European Community schools to produce their own works and organise an international competition to award the best ones. We considered this a form of a very deep and long lasting interactive action that we preferred to the sometimes superficial and ephemeral interactive processes, available in some science popularization exhibitions. We actually intended to organize artistic events based on scientific issues for five artistic disciplines, namely modern dance, cinema, contemporary art, imaging and literature. The produced art work would be used in two ways:

1. by presenting them in live events in the different countries involved in the project, addressing not only the targeted category of people, i.e., high school students from 15 to 19 years, but also the general public
2. by organising a competition among the European Union high school students for each of the five considered disciplines, with a consequent interactive process, involving potentially thousands of students. The consortium included several scientists, artists, art critics, film directors, actors, musicians and specialists in science popularisation. Universities, research institutes, dance schools, museums and theatres were involved, together with the famous European Synchrotron Radiation Facility, which hosted every year thousands scientists, including many Nobel Prize winners.

Slovak Participant's Role in Project: The role of IMRSAS is to cooperate in the Project WPs: stimulate students of EC schools to produce their own works by presenting artistic events based on scientific issues for each of the following artistic disciplines 1) Modern dance 2) Cinema 3) Contemporary art 4) Imaging 5) Literature; and to organize an international competition among the EU high school students for each of the 5 considered discipline (with a consequent interactive process involving potentially thousands of students) to award the best ones.

MOTIVATION

Project ID: 217843

Project Title: Promoting positive images of SET in young people

Project website: <http://www.uni-wuppertal.de/>

Project Start Date: 2008-01-01

Project End Date: 2009-12-31

Project Total Cost: EUR 536 488.7

Project EC Financial Contribution: EUR 499 888

Slovak participant Name: TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice (TUKE)

Slovak participant address: Letná 9, 042 00 Košice

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Partners of the Consortium:

BERGISCHE UNIVERSITAET WUPPERTAL - GERMANY

Participants: ECOLE NORMALE SUPERIEURE DE CACHAN - FRANCE

RADBOUD UNIVERSITEIT NIJMEGEN - STICHTING KATHOLIEKE UNIVERSITEIT - NETHERLANDS

UNIVERSITAET KLAGENFURT - AUSTRIA

CENTRE D'ESTUDIS DONA I SOCIETAT - SPAIN

ÅSBACKA ORDTJANST AB – SWEDEN

TECHNICKA UNIVERZITA V KOSICIACH, Technical University Košice (TUKE)- SLOVAKIA

Project Description: MOTIVATION (2010-2012) is focused on different agents' socialization and their influence on young people's job decisions, and on initiatives to change the images of science, engineering and technology (SET).

Project Objectives: The aim of the MOTIVATION project is an exchange between partner countries in Europe about the factors which influence the image of science and technology under gender perspectives, in order to attract young people. Adolescents often have obsolete and unattractive perceptions of SET jobs, and combine these with outdated clichés. Socialization agents, peer groups, teachers, study and job advisors, as well as media, influence this perception of SET and the different attitudes of young people towards SET.

MOTIVATION tries to improve the situation through the exchange of information about the influence of socialization agents, and to develop measures for changing attitudes towards SET amongst young people, socialization agents, and media. A website for presenting information for all relevant stakeholder groups will be developed. The project will culminate in a final international conference, where the exchange process will be widened to a broader group of international experts in the field.

MOTIVATION comprises four content work packages (WP) focussing on media (WP 2), teachers and advisors (WP 3), young peoples' self-images related to job decisions (WP4), and good practices. Information exchange about the existing research is the first objective, evaluation of content, methods and didactics of information about SET under gender aspects the second objective, and understanding interdependencies with gendered job decisions the third objective. Collecting measures of good practice, evaluating them, and creating new effective methods for changing

images of SET under gender aspects is the fourth objective. MOTIVATION will evaluate the information process of different social media. For that content, analysis of interviews and group discussions should illustrate how SET and gender in SET are represented on TV and in magazines, with teenagers as the target consumers. Good practice and dissemination measures will demonstrate media presentations, which can contribute towards a gender equal image of SET.

Profile of Slovak Participant/ -s: Technical University of Kosice (TUKE) consists of nine faculties with around 16 000 full-time undergraduate students. It has 900 members of academic and the same number of research and administrative staff. The Technical University of Kosice is the driver of ICT innovation and development in the Slovakia region. The main faculties related to the business, innovation and networked economy are the Faculty of Economics, Engineering and Informatics and BERG. Their research projects (5,6,7RP) focus on business networking, socio-economic analysis of ICT impact, e-business, trust building in the business networks, knowledge management, web technologies, logistics, eGovernment and regional development. The mission of TUKE is to provide its environment with scientific and technological knowledge basis, innovation and workforce, in order to form beneficial and sustainable future and high quality of life. This will be achieved at TUKE by innovative research and excellent education in all scientific branches of respective University Faculties. Because of our scientific excellence, we are the most successful organization in FPx projects in Slovakia, esp. in IST. TUKE is active in knowledge transfer, regional development and influencing public life through participation in several clusters and associations, esp. IT Valley, CEIT, ALADIN, etc. or in a very close cooperation with self-governing regions, regional municipalities, ministries, chambers of commerce and relevant regional and national stakeholders.

SK Participant Project Cost: EUR 78 444

SK Participant EC Financial Contribution: EUR 69 945

Project Outcomes planned/real: To exchange the attitude towards science and technology, especially their image in media, impact of teachers, professional counsellors, models on image of S&T between young people and their decision on future jobs. To evaluate content, methods and didactic information on R&D. To understand the reason for choosing a job from the gender perspective.

Slovak Participant's Role in Project: Leader of WP Dissemination. Contribution to all WPs by report on State of the Art in Slovakia. Preparation of analyses.

PRIMAS

Project ID: 244380

Project Title: Promoting inquiry in mathematics and science education across Europe

Project website: <https://www.ph-freiburg.de/>

Project Start Date: 2010-01-01

Project End Date: 2013-12-31

Project Total Cost: EUR 3 309 696.88

Project EC Financial Contribution: EUR 2 996 236

Slovak participant Name: UNIVERZITA KONSTANTINA FILOZOFA V NITRE, Constantine the Philosopher University in Nitra

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Participants: SZEGEDI TUDOMANYEGYETEM - HUNGARY

THE UNIVERSITY OF NOTTINGHAM - UNITED KINGDOM

THE UNIVERSITY OF MANCHESTER - UNITED KINGDOM

UNIVERSITEIT UTRECHT - NETHERLANDS

UNIVERSITA TA MALTA - MALTA

UNIVERSITATEA BABES BOLYAI - ROMANIA

CYPRUS UNIVERSITY OF TECHNOLOGY - CYPRUS

UNIVERSIDAD DE JAEN - SPAIN

UNIVERSITE DE GENEVE - SWITZERLAND

ROSKILDE UNIVERSITET - DENMARK

LEIBNIZ-INSTITUT FÜR DIE PÄDAGOGIK DER NATURWISSENSCHAFTEN UND

MATHEMATIK AN DER UNIVERSITÄT KIEL - GERMANY

HOGSKOLEN I SOR-TRONDELAG – NORWAY

UNIVERZITA KONSTANTINA FILOZOFA V NITRE, CONSTANTINE THE PHILOSOPHER

UNIVERSITY IN NITRA- SLOVAKIA

Project Description: PRIMAS is an international project within the Seventh Framework Programme of the European Union. Fourteen universities from twelve different countries have worked together over four years, to promote the implementation and use of inquiry-based learning in mathematics and science. PRIMAS has developed materials for direct use in class and for professional development. In addition, we have run professional development activities and have supported professional networks in each of the partner countries. PRIMAS has also worked with stakeholders such as policymakers, school leaders and parents, to create a supportive environment for inquiry-based learning. Although the project officially ended in December 2013, the work of promoting inquiry-based learning continues.

Project Objectives: This project aims to effect a change across Europe in the teaching and learning of mathematics and science, with teachers supported to develop inquiry-based learning (IBL) pedagogies so that students gain experience of IBL approaches. Ultimately, the objective is a greater number of students with more positive dispositions towards further study of these subjects and the desire to be employed in the related fields.

The proposal brings together 13 teams of experts in IBL in mathematics and science education from 12 nations, and will be led and managed by a researcher who has recent successful experience of work of this type in Europe. The nine working packages will be led by appropriate experts from the wider team, who will ensure the successful completion of each stage of the project. Overall, our design of the project throughout has been focused so as to provide a multi-level dissemination plan, addressed to teachers and important stakeholders, to ensure maximum impact. This plan includes the provision of high quality support for, and training of, teachers and teacher trainers; selection of high quality materials and methods to work with teachers, supporting actions addressed to teachers to advertise IBL, methods of working with out-of-school parties, such as local authorities and parents, and summaries of analyses, that will inform a wide range of policy makers about how they can support the required changes.

Throughout the projects' timeline, national consultancy panels and two international panels will provide on-going advice and orientation at key stages. To maximize the project's reach to teachers; either established networks for professional development of teachers will be expanded, or new networks will be built using models which have proven to be effective. Rigorous evaluation both by an internal team and an outside agency will provide formative and summative feedback about the validity of the project and its effectiveness.

Profile of Slovak Participant/ -s: Constantine the Philosopher University (UKF) is a public university founded in 1992 as the University of Education in Nitra, which became a successor of the Pedagogic Institute established in 1959, and the Faculty of Education (1964). Over the course of time, UKF has secured its position in the Slovak higher education system. The ambition of UKF is to make the study courses more flexible and challenging for its students and to respond to the vital needs of the society, while providing the applicants with different ways and forms of undergraduate, postgraduate and life-long study. By student population – more than 14 000 full-time and part-time students, UKF belongs to the larger Slovak universities. The main mission of the Faculty of Natural Sciences is the science and research activity in mathematics, biology, chemistry, physics, ecology, geography and informatics. The Faculty runs study programmes for teachers of academic subjects at primary and secondary schools, as well as for specialists with non-teaching specializations in sciences. Due to the Faculty tradition, the pedagogic research observes a significant prominence. This research focuses on the utilization of knowledge and experience of the creative personalities of the faculty in specific didactics of particular natural science subjects, using new forms and methods of education (e-learning), and on the promotion of natural science and mathematics education. The Faculty aims at further obtaining and participating on international educational projects. The Faculty offers university education in a wide range of one-major and pedagogic under-graduate, graduate and post-graduate study programmes.

SK Participant Project Cost: EUR 90 306

SK Participant EC Financial Contribution: EUR 83 558

Project Outcomes planned/real: Successful inquiry requires new learning tasks, new teaching repertoires and changing roles for both teachers and pupils. Within the PRIMAS project, the courses of professional development for teachers were developed. In Slovakia, 108 participants successfully attended 8 courses, focused on the implementation of inquiry-based learning. The impact of these professional development courses was evaluated within a pre-post survey, using questionnaires. The teacher and student pre- and the post-questionnaire were distributed in the countries of the PRIMAS consortium. Altogether, 513 teachers and 14476 students filled out both the pre- and post- questionnaire. We were able to confirm that through the professional development courses, the project PRIMAS improved mathematics and science education. Our analysis of the data of the pre-post survey showed that teaching practices changed significantly. After the professional development courses, the IBL-index, indicating the frequency of IBL in classroom practice, increased significantly. Therefore, we were able to prove that our efforts not only reached the teachers, but even the students were aware of these changes, which shows the high impact of the courses. The project PRIMAS used this great opportunity to work both internationally, with people from different professional backgrounds, and also at the national level, with experienced and motivated teachers and teacher educators as multipliers. Having developed a common understanding of IBL and a common model for professional development, there still was enough room for national adapted courses to meet the needs within a specific teaching and learning culture, which ensured the success of the project.

Slovak Participant's Role in Project: The Slovak PRIMAS team was a member of the management board. As the leader of WP5: Supporting actions for teachers, the Slovak team was responsible for gathering, analysing and reporting supporting actions for teachers in the project partner countries. 345 dissemination actions were carried out within four years, and face-to-face events in schools, academic and scientific venues all over the world reached the number of 26 000.

An important scientific outcome of WP5 was the publication of the Guide of Supporting Actions for Teachers in Promoting Inquiry-based Learning. Knowledge about the purpose and the precise target group of every dissemination action, about important contextual factors and appropriate communication strategies, and about a suitable design of action, is the central dimension to reflect upon, when carrying out dissemination action aimed to increase the knowledge about inquiry-based learning and its use. Very successful part of the Nitra project team was designing and maintaining the project logo and the whole corporate design.

PRI-SCI-NET

Project ID: 266647

Project Title: Networking Primary Science Educators as a means to provide training and professional development in Inquiry Based Teaching

Project website: <http://www.prisci.net/>

Project Start Date: 2011-09-01

Project End Date: 2014-08-31

Project Total Cost: EUR 3 182 780

Project EC Financial Contribution: EUR 2 836 624

Slovak participant Name: TRNAVSKA UNIVERZITA V TRNAVE, Trnava University in Trnava

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JYVASKYLÄN YLIOPISTO - SUOMI/FINLAND
UNIVERSITY OF CYPRUS - CYPRUS
PANEPISTIMIO KRITIS (UNIVERSITY OF CRETE) - GREECE
MUGLA UNIVERSITESI - TURKEY
UNIVERSITE PARIS 8 VINCENNES SAINT-DENIS - FRANCE
EXOR GROUP LTD - MALTA
BUNDESMINISTERIUM FÜR UNTERRICHT, KUNST UND KULTUR - AUSTRIA
EU CORE CONSULTING S.R.L. - ITALY
UNIVERSITY OF SOUTHAMPTON - UNITED KINGDOM
UNIVERZITA JANA EVANGELISTY PURKYNE V USTI NAD LABEM - CZECH REPUBLIC
KATHOLIEKE HOGESCHOOL ZUID-WEST-VLAANDEREN KATHO VZW - BELGIUM
ASSOCIACAO HANDS-ON SCIENCE NETWORK - PORTUGAL
JOHANN WOLFGANG GOETHE UNIVERSITAET FRANKFURT AM MAIN – GERMANY
TRNAVSKA UNIVERZITA V TRNAVE, TRNAVA UNIVERSITY IN TRNAVA- SLOVAKIA

Project Description: PRI-SCI-NET is an EU funded FP7 Supporting and coordinating action (Call SIS-2010-2.2.1.1) programme, concentrating on innovative methods in science education: teacher training on inquiry based teaching methods on a large scale in Europe. The project is coordinated by the Malta Council for Science and Technology (MCST), and has 17 partners from 14 countries. The project promotes Inquiry-based learning approach among primary school science teachers. The inquiry-based approach involves an active engagement of children in the learning process, with an emphasis on observations and achieved, through authentic problem based learning activities, where there is no need to get the correct answer. Rather, children draw conclusions on the evidence collected. It promotes student autonomy, involves discursive argumentation and communication with peers (talking science), self-regulated learning, social interaction and collaboration.

Project Objectives: This project aims at setting up a Europe-wide network for professionals and academics in the area of Science Education at primary school level. The aim is to provide training and professional support to teachers, to help them use Inquiry based learning in Science lessons. The platform at European level will network professionals, as well as support organisation of training courses. It also recognises teachers' and researchers' achievements in implementing Inquiry-based learning in science, as well as provides an opportunity for teachers and academics to share their experience and achievements., the project will, at the same time also encompass small projects concerning science education at primary school level, and promote them on a larger scale, in order to provide examples of Inquiry Based teaching approaches, so as to have an impact at European level.

The project includes several previous projects, principally: using an already developed, theoretical pedagogical model for the teaching of science at a primary school level for developing teaching resources (developed as part of Comenius 1 and 2 projects); utilising the European network for primary school teachers, to provide training and professional development to primary school science teachers trainers; providing in-service training opportunities, based on experience of partners in implementing ERASMUS intensive courses for primary school teachers on a national and international level. Pri_Sci_Net aims to establish a European community of primary science educators, who will actively use Inquiry Based approach.

Profile of Slovak Participant/ -s: The Faculty of Education at the University of Trnava is the most prestigious pedagogical institute for pre-service teacher training in Slovakia, and a well-known institute aiming at a meaningful implementation of innovations into educational system. Universities are the only institutes which can provide valid in-service training, aimed at teachers' career development in Slovakia. Due to these two reasons, the Faculty of Education at the University of Trnava has a potential of great impact on the way the traditional science education can be changed. Due to its long experience concerning constructive principles applied into science education at primary school level, the Faculty of Education at the University of Trnava has a solid background to encourage further development of education innovation (including actual mainstream tendency toward Inquiry Based Science Education - IBSE) all over Slovakia. The Faculty of Education has been developing new inductive-oriented learning concept for science education for about 20 years, and according to its rich research experience in this area, researchers from the Faculty have been nominated to positions of expert supervisors, responsible for national science education curriculum reconstruction (at National Institute of Pedagogy). Two departments of the Faculty work mainly on the IBSE topic, related to the Fibonacci project: Department of Chemistry (<http://katchem.truni.sk/>) and Department of School Pedagogy (<http://pdf.truni.sk/katedry/~ksp/>).

SK Participant Project Cost: EUR 145 200

SK Participant EC Financial Contribution: EUR 132 395

Project Outcomes planned/real: The project aims at setting up a Europe-wide network for professionals and academics in the area of Science Education at primary school level. The aim is to provide training and professional support to teachers to help them use Inquiry based learning in science lessons. The platform at European level will network professionals, as well as support the organization of training courses. It also recognizes teachers' and researchers' achievements in implementing Inquiry-based learning in science, and provides an opportunity for teachers and academics to share their experience and achievements. The project will at the same time also encompass small projects in primary science education, and promote them on a larger scale, in order to provide examples of Inquiry Based teaching approaches so as to have an impact at European level. Pri-Sci-Net aims to establish a European community of primary science educators, who will actively use Inquiry-Based approach. The project has produced 45 model Inquiry Based Science Education (IBSE) activities, translated into various European languages and placed to Pri-Sci-Net portal for free use. The IBSE activities encourage teachers to use the IBSE concept in their teaching practice, and they are willing to come back to the Pri-Sci-Net portal and share their experience. This community approach helps to realize the project goals. To reach the project goals, 2 international conferences, 3 international training courses for teachers and teacher trainers, and also 4 national training courses for teachers in every participated country have been organized. All teachers have been encouraged to become members of IBSE teacher community on the Pri-Sci-Net portal.



Slovak Participant's Role in Project: The main task was to develop, test and design model IBSE activities, and to use them during national training courses for in-service pre-school and primary teachers. Nine in-service teacher training courses have been organized in total (instead of four planned); nearly 100 teachers were trained, and followed-up to providing sustainability of the training outcomes. Thanks to its rich experience with in-service teacher training and follow-up of the teachers in their practice, the Faculty of Education of the Trnava University was made responsible for the entire programme of national training, international training, and international conferences. Thus, role of the Slovak participant was to manage work with in-service teachers and teacher trainers, and to help the partners to organize the trainings and conference activities, so that the goals of the project would be reached.

SAILS

Project ID: 289085

Project Title: Strategies for Assessment of Inquiry Learning in Science

Project website: <http://www.sails-project.eu/portal>

Project Start Date: 2012-01-01

Project End Date: 2015-12-31

Project Total Cost: EUR 4 248 429.4

Project EC Financial Contribution: EUR 3 748 689

Slovak participant Name: UNIVERZITA PAVLA JOZEFA SAFARIKA V KOSICIACH, Pavol Jozef Šafárik University in Košice

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Partners of the Consortium:

DUBLIN CITY UNIVERSITY - ÉIRE/IRELAND

SYDDANSK UNIVERSITET - DENMARK

GOTTFRIED WILHELM LEIBNIZ UNIVERSITAET HANNOVER - GERMANY

UNIVERSITY OF PIRAEUS RESEARCH CENTER - GREECE

KING'S COLLEGE LONDON - UNITED KINGDOM

INTEL PERFORMANCE LEARNING SOLUTIONS LIMITED - ÉIRE/IRELAND

ATIT BVBA - BELGIUM

INSTITUTO DE EDUCAÇÃO DA UNIVERSIDADE DE LISBOA - PORTUGAL

HACETTEPE UNIVERSITESI - TURKEY

SZEGEDI TUDOMANYEGYETEM - HUNGARY

MALMOE HOEGSKOLA (MALMOE UNIVERSITY) - SWEDEN

UNIwersytet Jagielloński - POLAND

HOEGSKOLAN KRISTIANSTAD - SWEDEN

UNIVERZITA PAVLA JOZEFA SAFARIKA V KOSICIACH, PAVOL JOZEF ŠAFÁRIK UNIVERSITY IN KOŠICE - SLOVAKIA

Project Description: The SAILS consortium consists of thirteen partner organisations, including universities, SMEs and a multi-national organisation, from across twelve European countries. The strength of this consortium lies in its vast experience and expertise in the areas of science education, teacher training and resource development for teaching, learning and assessment.

By using a pan-European approach, SAILS will ensure that the diverse practices built up in each country can be analysed and shared, resulting in the development of models of best practice. These can be used not only in all the consortium countries but will also be available for other countries to adopt. This European approach raises the standard for everyone by encouraging national implementation, and by extending and promoting innovation in science teaching and learning in the classroom.

Project Objectives: The aim of this proposal is to support teachers in adopting inquiry based science education (IBSE) at second level (students aged 12-18 years) across Europe. This will be achieved by utilising existing resources and models for teacher education in IBSE both pre-service and in-service. In addition to SAILS partners adopting IBSE resources within their curricula and implementing teacher education in their countries, the SAILS proposal aims to develop appropriate strategies and frameworks for the assessment of IBSE skills and competences and prepare teachers not only to be able to teach through IBSE, but also to be confident and competent in the assessment of their students' learning. Through this unified approach of implementing all the necessary components for transforming classroom practice, i.e. teacher education, curriculum and assessment around an IBSE pedagogy, a sustainable model for IBSE will be achieved. SAILS will provide teacher education workshops in IBSE across the twelve participating countries and promote a self-sustaining model encouraging teachers to share experiences and practice of inquiry approaches to teaching, learning and assessment by building a community of practice. The SAILS consortium of over 60 partners from 14 organisations, including universities, a small-medium enterprise and an international multinational organisation, will work together to promote and disseminate inquiry based approaches to science teaching, learning and assessment with national and international stakeholders.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 276 128

SK Participant EC Financial Contribution: EUR 248 055

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SIS-CATALYST

Project ID: 266634

Project Title: SIS Catalyst: Children as Change Agents for the future of Science in Society

Project website: <http://www.siscatalyst.eu/>

Project Start Date: 2011-01-01

Project End Date: 2014-12-31

Project Total Cost: EUR 4 561 513.45

Project EC Financial Contribution: EUR 4 090 120.42

Slovak participant Name: ZDRUZENIE MAXA REINHARDTA, The Foundation of Max Reinhardt

Slovak participant address: Čajakova 1, 811 05 Bratislava

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Partners of the Consortium:

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INSTITUT JOZEF STEFAN - SLOVENIA

SVEUCILISTE U ZAGREBU FAKULTET ORGANIZACIJE I INFORMATIKE - CROATIA

ASSOCIATION PARIS MONTAGNE - FRANCE

UNIVERSITAET INNSBRUCK - AUSTRIA

VEREIN ZOOM KINDERMUSEUM - AUSTRIA

EBERHARD KARLS UNIVERSITAET TUEBINGEN - GERMANY

HARRY THOMASON - UNITED KINGDOM

EUROPEAN ACCESS NETWORK - UNITED KINGDOM

JOENSUUN KAUPUNKI - SUOMI/FINLAND

TARTU ULIKOOL - ESTONIA

L'UNION EUROPEENNE DES ASSOCIATIONS DE JOURNALISTES SCIENTIFIQUES

ASSOCIATION - FRANCE

KINDERBURO UNIVERSITAT WIEN GMBH - AUSTRIA

EUROSCIENCE ASSOCIATION - FRANCE

SISSA MEDIALAB - ITALY

THE NATIONAL UNIONS OF STUDENTS IN EUROPE - BELGIUM

STICHTING ECHO, EXPERTISECENTRUM DIVERSITEITSBELEID - NETHERLANDS

ASSOCIATION TRACES THEORIES ET REFLEXIONS SUR L'APPRENDRE LA

COMMUNICATION ET L'EDUCATION SCIENTIFIQUES - FRANCE

ZDRUZENIE MAXA REINHARDTA, THE FOUNDATION OF MAX REINHARDT - SLOVAKIA

Project Description: SiS Catalyst is a 4-year European Commission funded Mobilising Mutual Learning Action Plan. SiS Catalyst is an initiative to foster and support ethical, effective and sustainable engagement between children aged 7-14 years and the social, cultural, political, scientific and educational institutions which make the decisions that will shape their future.

While it seeks to empower children everywhere and influence all kinds of institutions to engage with them, the initiative has a particular focus on strengthening relationships between post-secondary education institutions and the children who, despite ability, currently appear unlikely to enter them.

Based in Europe, SiS Catalyst involves people and institutions from various regions of the globe, and draws on many different sources of ideas, energy and wisdom.

The SiS Catalyst community includes both government and non-government educational, cultural and scientific institutions and organisations, expert advisors, and other individuals and groups, who share our vision. It is coordinated through the University of Liverpool, UK.



Project Objectives: This ambitious SIS CATALYST project seeks to identify how children can be agents of change in the relationship between Science and Society relationship, and from this starting point, to indicate how they can be catalysts in longer term solutions of the greater challenges faced by society - their future. It will contextualise this in Global, European, national, regional and local arenas. The Action Plan involves refining Case Studies of replicable and scalable SiS activities for children with an associated pan-European benchmarking and mutual agreement process, which will provide vehicles for strategic and political alignment, as well as shared assessment tools.

These core WPs will be enriched by other WPs, which systematically engage three critical groups: young people, students and Key Players. The focus will be on children with ability, who are currently least likely to continue to study science in post-secondary education. It will also combine the scientific and social agenda with the social inclusion agenda through entrepreneurship, as well as considering the ethics of activities.

The achievement of mutual learning will be prioritized and robustly disseminating and communicating this in regional, national, European arenas and beyond, specifically targeting newcomers. All activities of the consortium will be externally evaluated, and all actors will be assisted in reflecting upon the 'Partnership Learning'. This will become an example of mobilization of mutual learning for future European initiatives.

The key to the project will be the active participation of young people, exploring their perceptions and understanding of science; learning from them as the scientists of the future. The Action Plan will be systematically promoted in Europe and beyond, with the goal of having at least 20 Ministers for Education, presenting the same certificates to children in 20 countries in the final year, and providing a Children's Portal to the website of every University in the World...

Profile of Slovak Participant/ -s: Združenie Maxa Reinhardta – the Foundation of Max Reinhardt

The foundation is a non-profit organization, which was established to support activities of the Arena Theatre, Bratislava.

The main task of the organization is to find sponsors and donors for the realization of long-term projects in the cultural field, with responsibilities for running and organizing them within the framework of the Arena Theatre.

The head of the foundation is Tatiana Kukurova, who, in 2003, came with the idea of the educational project for children of the Children's University. The foundation is the main organizer of this project, together with the Arena Theatre and Comenius University Bratislava. Around 350 children graduate from Detská univerzita Komenského (Children's Comenius University in Bratislava) every year. In total, almost 2 500 children from all of Slovakia have participated in this project in the past seven years (and some of them enrolling several times). In 2005, the project of Children's Comenius University received the Slovak Humanitarian Council Award, which is an annual prize given to exceptional projects in the field of humanity and charity. The foundation is part of the EUCUNET project (FP7, Coordination and support action, contract no. 217810) as a consortium member, which created network for over 200 European organizers of Children's Universities projects. Besides minor research tasks, the foundation participated in the project holding the leadership of two working packages in this project – the International Twin City Conference on Children's Universities and the White Book for Children's Universities, containing the project results and experience.

SK Participant Project Cost: EUR 47 083.25

SK Participant EC Financial Contribution: EUR 41 982.56

Project Outcomes planned/real: SiS Catalyst is an initiative to foster and support ethical, effective and sustainable engagement between children aged 7-14 years and the social, cultural, political, scientific and educational institutions, which make decisions that will shape their future.

While it seeks to empower children everywhere and influence all kinds of institutions to engage with them, the initiative has a particular focus on strengthening relationships between post-secondary education institutions and the children who, despite ability, currently appear unlikely to enter them.

Basic aims:

- To explore and identify the best ways to involve children (aged 7-14) in the social, cultural, political, educational and scientific decision-making processes that will affect their future

- To support and guide institutions and people new to working with children through training, exchange of best practices and mentoring

- To mobilise mutual learning among stakeholders at different levels and from different sectors, regions and countries

- To encourage institutions to empower children and instil early positive attitudes to learning through activities such as 'Children's Universities'

- To provide a blueprint of activities for engaging, inspiring and motivating children with ability, who appear unlikely to progress to post-secondary education

- To enrich lifelong learning and social inclusion through the next generation of learners.



Slovak Participant's Role in Project: Beneficiary organisation. Active participation in the planning of common activities of the project. Cooperation in the implementation of work packages, where the Foundation was directly involved. Implementation of project activities, focused on working with disadvantaged pupils in the environment of the Theatre Arena and Children's Comenius University. Preparation and implementation activities of working with disadvantaged children through pilot workshops (SiS activities for children organized in a theatre), including the development methodology. Active presentation of outcomes from pilot workshops at conferences and project meetings.

STEPS

Project ID: 217605

Project Title: STrengthening Engagement in Public health research

Project website: <http://www.steps-ph.eu/>

Project Start Date: 2009-01-01

Project End Date: 2011-06-30

Project Total Cost: EUR 737 375.8

Project EC Financial Contribution: EUR 661 000

Slovak participant Name: SLOVENSKA ASOCIACIA VEREJNEHO ZDRAVIA, Slovak Public Health Association

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Partners of the Consortium:

UNIVERSITY COLLEGE LONDON - UNITED KINGDOM

INSTITUT ZA VAROVANJE ZDRAVJA REPUBLIKE SLOVENIJE - SLOVENIA

KOALICIJA GALIU GYVENTI - LITHUANIA

NARODNÍ SÍŤ ZDRAVÝCH MEST ČESKE REPUBLIKY - CZECH REPUBLIC

SKALBES - LATVIA

RESEARCH UNIT IN BEHAVIOUR & SOCIAL ISSUES - CYPRUS

SIHTASUTUS POLIITIKAUURINGUTE KESKUS PRAXIS - ESTONIA

LATVIJAS SABIEDRIBAS VESELIBAS ASOCIACIJA-LSVA - LATVIA

EUROPEAN PUBLIC HEALTH ASSOCIATION - NETHERLANDS

FACT GAZDASAG ES TARSADALOMTUDOMANYI ALKALMAZASOK ALAPITVANY - HUNGARY

SOLIDARITY AND OVERSEAS SERVICE MALTA - MALTA

ZŁ SKI UNIWERSYTET MEDYCZNY W KATOWICACH - POLAND

SDRUZJENIE KLUB IKONOMIKA 2000 (CLUB ECONOMIKA 2000) - BULGARIA

FUNDATIA CENTRUL PENTRU POLITICI SI SERVICII DE SANATATE - ROMANIA

SLOVENSKA ASOCIACIA VEREJNEHO ZDRAVIA, SLOVAK PUBLIC HEALTH ASSOCIATION- SLOVAKIA

Project Description: STEPS provides information on public health research in Europe. It is of use to commissioners (funders and policy-makers), providers (researchers and research organisations), and users (practitioners and officials).

Project Objectives: STEPS is designed to increase civil society organisation participation in the development of public health research in each of the twelve new member states, and in Europe as a whole. The project has three partners. Coordination and project management are led by UCL, and the coordinator will also promote engagement of national ministries of health. The European Public Health Association (EUPHA) will engage its member national public health associations, support the Steering Group and maintain the web knowledge base. The Latvian Public Health Network (LPHN) will engage the health NGOs in each country and strengthen Europe-wide alliances.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 15 339.6

SK Participant EC Financial Contribution: EUR 13 677

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

4. Specific programme **CAPACITIES**

*4.6 International
cooperation - (INCO)*



DANUBE-INCO.NET

Project ID: 609497

Project Title: Danube Region INCO-NET

Project website: <http://danube-inco.net/>

Project Start Date: 2014-01-01

Project End Date: 2016-12-31

Project Total Cost: EUR 2 272 087.33

Project EC Financial Contribution: EUR 1 996 465

Slovak participant Name: BIC BRATISLAVA. SPOL. S.R.O.

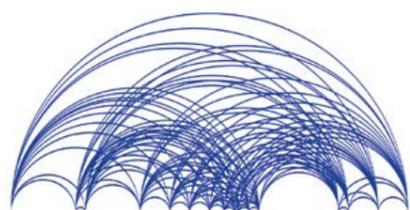
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Partners of the Consortium:

ZENTRUM FUER SOZIALE INNOVATION - AUSTRIA
BUNDESMINISTERIUM FUER BILDUNG UND FORSCHUNG - GERMANY
INSTITUT MIHAJLO PUPIN - SERBIA
MINISTRSTVO ZA IZOBRAZEVANJE, ZNANOST IN SPORT - SLOVENIA
INSTITUTE OF MARKET PROBLEMS AND ECONOMICAL AND ECOLOGICAL RESEARCHES OF NATIONAL ACADEMY OF SCIENCE OF UKRAINE - UKRAINE
CENTRUL PROIECTE INTERNATIONALE - MOLDOVA
DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV - GERMANY
STEINBEIS INNOVATION GGMBH - GERMANY
UNIVERZITET U NOVOM SADU - SERBIA
MINISTERUL EDUCATIEI NATIONALE - ROMANIA
OESTERREICHISCHE FORSCHUNGSFOERDERUNGSGESELLSCHAFT MBH - AUSTRIA
INCE INIZIATIVA CENTRO EUROPEA - SEGRETARIATO ESECUTIVO - ITALY
BUNDESMINISTERIUM FUR WISSENSCHAFT UND FORSCHUNG BMWF - AUSTRIA
MINISTRY OF CIVIL AFFAIRS - BOSNIA AND HERZEGOVINA
JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM
UNIVERSITY OF RUSE ANGEL KANCHEV - BULGARIA
REGIONALIS INFORMACIOS ES FEJLESZTO TUDASKOZPONT KORLATOLT FELELOSSEGU TARSASAG - HUNGARY
EKO-SUSTAV DOO ZA GOSPODARENJE OTPADOM – CROATIA
BIC BRATISLAVA. SPOL. S.R.O.- SLOVAKIA

Project Description: Danube-INCO.NET is an FP7 funded coordination and support action for the official EU Strategy for the Danube Region (EUSDR) in the field of research and innovation (R&I). Whereas the EUSDR addresses a wide variety of priority areas (ranging from PA 1A „Mobility/Waterways“ to PA 11 „Security“), Danube-INCO.NET focuses mainly on two of them: PA 7 „Knowledge Society“ and PA 8 „Competitiveness“. The project supports the policy dialogue, creates networks, and analyses and supports R&I activities.



Danube-INCO.NET
Advancing Research and Innovation
in the Danube Region

Project Objectives: Based on strong institutionalized links with the PA Coordinators and the PA Steering Groups, a consortium of 19 partners from all over the region proposes to support the policy dialogue within the EUSDR, to exchange with other regional policy initiatives, and to enhance bi-regional dialogue with a focus on the implementation of the 'Innovation Union' and the ERA Framework. Danube-INCO.NET has selected the societal challenges of energy efficiency and renewable energy in a bio-based economy, which are addressed by mapping and analysis, clustering and networking, and the implementation of concrete pilot activities. Moreover, also the societal challenge of innovative and inclusive societies in the Danube region is addressed through the provision of analytical evidence: Research and innovation activities are monitored with several instruments, a survey identifies barriers to cooperation, and less competitive innovation systems are reflected through policy mix reviews. To implement concrete innovation support measures, smart specialisation strategies, technology transfer centres, and a system of supporting the development of targeted project proposals is being introduced. Danube-INCO.NET is also committed to the development of joint funding mechanisms - lending its attention to one of the most important milestones, the establishment of the Danube Region Research and Innovation Fund. In this respect, Danube-INCO.NET supports cooperation among the leading – indeed world-class – innovative regions upstream, with the regions downstream, both at a strategic and operative level.



Profile of Slovak Participant/ -s: BIC Bratislava was established in 1991 as the first Business and Innovation Centre in the Central and Eastern Europe. Since then, BIC Bratislava has become a leading expert organisation for entrepreneurial support, internationalisation of businesses, innovation, research and regional development in Slovakia. BIC Bratislava actively cooperates with both public and private stakeholders in Slovakia and the EU supporting the business, research and innovation. The main activities of BIC Bratislava: development of innovative business (BIC Bratislava hosted the first incubator in Slovakia); support of the public-private (academia-industry) partnerships; supporting innovation and trans-national technological cooperation in Slovakia as a coordinator of Enterprise Europe Network in Slovakia (2008-2014) and Innovation Relay Centres (1997-2008); formulation of the Regional Innovation Strategies for 4 out of the 8 Slovak regions (Bratislava, Trnava, Nitra and Presov), and development of the RIS 3 for the Bratislava Region (Smart Specialization Strategy) and the National Innovation Strategy S3; building the innovation and technology transfer infrastructure; active membership in national and international networks for research and innovation; analysis and development of financial and non-financial tools for supporting the innovative companies; NCP for Innovation in SME and Access to Risk Finance in Horizon 2020; hosting the NCPs for innovation and SME issues in FP7 and FP5; delivering the Economic and Technological Intelligence projects in FP5/FP6. BIC Bratislava has a long experience in leading and participating in the EU projects focused on research and innovation (more than 50 projects funded by FP4-FP7, CIP, Central Europe Programme 2007-2013, PHARE, IVF from which 10 were coordinated by BIC Bratislava).

SK Participant Project Cost: EUR 81 065.73

SK Participant EC Financial Contribution: EUR 72 283.61

Project Outcomes planned/real: Danube-INCO.NET is described as a strategic, high-level coordination and support action. Its background is the macro-regional approach of the European Union, in particular the EU Strategy for the Danube Region (EUSDR) and its Priority Areas for Knowledge Society (PA7) and for Competitiveness (PA8). Based on strong institutional links with the PA Coordinators and the PA Steering Groups, a consortium of 19 partners from all over the region, proposes to support the policy dialogue within the EUSDR, to exchange with other regional policy initiatives, and to enhance bi-regional dialogue with a focus on the implementation of the 'Innovation Union' and the ERA Framework. Danube-INCO.NET has selected the societal challenges of energy efficiency and renewable energy in a bio-based economy, which are addressed by mapping and analysis, clustering and networking, and the implementation of concrete pilot activities. Moreover, also the societal challenge of innovative and inclusive societies in the Danube region is addressed, through the provision of analytical evidence: Research and innovation activities are monitored with several instruments, a survey identifies barriers to cooperation, and less competitive innovation systems are reflected through policy mix reviews. To implement concrete innovation support measures, smart specialisation strategies, technology transfer centres and a system of supporting the development of targeted project proposals is being introduced. Danube-INCO.NET is also committed to the development of joint funding mechanisms - lending its attention to one of the most important milestones, the establishment of the Danube Region Research and Innovation Fund. In this respect, Danube-INCO.NET supports cooperation among the leading – indeed world-class – innovative regions upstream, with the regions downstream, both at a strategic and operative level.

Slovak Participant's Role in Project: BIC Bratislava (being at the position of coordinator of Enterprise Europe Network in Slovakia) is responsible for innovation-related issues and networking among stakeholders and relevant players in the Danube Region. In particular, the tasks of BIC Bratislava comprise participation in: Supporting EUSDR Policy Dialogue; Policy Framework Coordination; Identifying and promoting actions and stakeholders; Clustering and Triple Helix networking (incl. "Networking4Innovation" brokerage component); Monitoring research and innovation cooperation; Policy mix peer review; Smart Specialised Danube; Danube Transfer Centres; Support to the Funding Parties Platform (FPP); Scaling up joint funding mechanisms and participation in management issues.

ERA.NET RUS PLUS

Project ID: 609556
Project Title: Further linking Russia to the ERA:
Coordination of MS/ AC S&T programmes towards and with Russia
Project website: <http://www.eranet-rus.eu/>
Project Start Date: 2013-11-01
Project End Date: 2018-10-31
Project Total Cost: EUR 26 112 388.03
Project EC Financial Contribution: EUR 3 500 000

Slovak participant Name: SLOVENSKA AKADEMIA VIED, Slovak Academy of Sciences
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Partners of the Consortium:

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BUNDESMINISTERIUM FUER BILDUNG UND FORSCHUNG - GERMANY
UNITATEA EXECUTIVA PENTRU FINANTAREA INVATAMANTULUI SUPERIOR, A CERCETARII, DEZVOLTARII SI INOVARII - ROMANIA
AIF PROJEKT GMBH - GERMANY
MINISTERE DE L'ENSEIGNEMENT SUPERIEUR ET DE LA RECHERCHE - FRANCE
SUOMEN AKATEMIA - SUOMI/FINLAND
LATVIJAS ZINATNU AKADEMIJA - LATVIA
FEDERAL STATE AUTONOMOUS EDUCATIONAL INSTITUTION FOR HIGHER PROFESSIONAL EDUCATION NATIONAL RESEARCH UNIVERSITY HIGHER SCHOOL OF ECONOMICS - RUSSIA
FOUNDATION FOR ASSISTANCE TO SMALL INNOVATIVE ENTERPRISES - RUSSIA
MATIMOP, ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT - ISRAEL
FAR EASTERN BRANCH OF RUSSIAN ACADEMY OF SCIENCES - RUSSIA
NARODOWE CENTRUM BADAN I ROZWOJU - POLAND
URAL BRANCH OF THE RUSSIAN ACADEMY OF SCIENCES - RUSSIA
SCHWEIZERISCHER NATIONALFONDS ZUR FORDERUNG DER WISSENSCHAFTLICHEN FORSCHUNG - SWITZERLAND
RUSSIAN FOUNDATION FOR HUMANITIES - RUSSIA
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - FRANCE
CENTRUL PROIECTE INTERNATIONALE - MOLDOVA
RUSSIAN ACADEMY OF SCIENCES - RUSSIA
RUSSIAN FOUNDATION FOR BASIC RESEARCH - RUSSIA
SLOVENSKA AKADEMIA VIED, SLOVAK AKADEMY OF SCIENCES- SLOVAKIA

Project Description: ERA.Net RUS Plus is a follow-up to the current ERA.Net RUS action that was set-up from 2009 to 2013 to link Russia to the European Research Area by a coordination of S&T programmes in EU MS/AC and Russia. ERA.Net RUS was the first joint call activity in which prominent Russian Funding Parties (RAS, RFBR, RFH and FASIE) were jointly participating in a multilateral funding scheme.

Project Objectives: The major objective of ERA.Net RUS Plus is to deepen the transnational collaboration between EU MS/AC and Russia and to reduce the fragmentation of research programmes along national funding lines. This joint undertaking will create synergies and strengthen the cooperation among the consortium members. Other principal goals of ERA.Net RUS Plus are to further develop the instrumental setting for joint funding activities and thus to provide a solid basis for a joint programmatic approach to be pursued in the near future. This programmatic approach will assure the desired and necessary sustainability of the cooperation between EU MS/AC and Russia and a lasting impact.

ERA.Net RUS Plus will therefore be the next important step in further linking Russia and its key research communities to the European Research Area.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 217 490.97

SK Participant EC Financial Contribution: EUR 29 151.62

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

NOGAP

Project ID: 609531

Project Title: Knowledge Transfer Community to bridge the gap between, research, innovation and business creation

Project website: <http://www.no-gap.eu/>

Project Start Date: 2013-09-01

Project End Date: 2016-02-29

Project Total Cost: EUR 1 182 644

Project EC Financial Contribution: EUR 998 759

SLOVAK PARTICIPANT 1

Slovak participant Name: SLOVENSKA POLNOHOSPODARSKA UNIVERZITA V NITRE, Slovak Agricultural University in Nitra

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SLOVAK PARTICIPANT 2

Slovak participant Name: The Union of Slovak Clusters

Slovak participant address: Piaristická 2, 949 01 Nitra

Contact person email/ phone: Katarína Szegényová, Union of Slovak Clusters, info@uksk.sk, +421 904 997 577

Partners of the Consortium:

STEINBEIS INNOVATION GGBH - GERMANY
UNIVERSITATEA TEHNICA CLUJ-NAPOCA - ROMANIA
EDUCATIONAL ESTABLISHMENT BELARUSIAN STATE AGRARIAN TECHNICAL UNIVERSITY - BELARUS
INTERNATIONAL CENTER FOR ADVANCEMENT OF RESEARCH, TECHNOLOGY AND INNOVATION - GEORGIA
DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV - GERMANY
NACIONALNIY TEHNICHNIY UNIVERSITET UKRAINI KIIVSKIY POLITEHNICHNIY INSTITUT - UKRAINE
INNOVATION ASSOCIATION AKADEMTECHNOPARK-REPUBLICAN CENTRE FOR TECHNOLOGY TRANSFER - BELARUS
SC IPA SA - ROMANIA
THE CENTRE FOR SCIENTIFIC AND TECHNICAL INFORMATION AND INNOVATION PROMOTION OF UKRAINE - UKRAINE
GEORGIAN TECHNICAL UNIVERSITY - GEORGIA
INSTITUT ELEKTROZVARYUVANNYA IM.E.O. PATONA NACIONALNOI AKADEMII NAUK UKRAINY – UKRAINE

SLOVENSKA POLNOHOSPODARSKA UNIVERZITA V NITRE, SLOVAK AGRICULTURAL UNIVERSITY IN NITRA - SLOVAKIA

Project Description: NoGAP bridges the gap between research and innovation, and contributes to taking advantage of the innovation potential of SMEs, based on a better cooperation with researchers, transferring and using knowledge resulting from research.



Project Objectives: The overall objective of the project is to reinforce cooperation with Eastern Partnership countries, to develop a “Common Knowledge and Innovation Space” on societal challenge “secure, clean and efficient energy”. The NoGAP consortium is composed of 13 organizations from 6 countries of which 3 are EU members (Germany, Romania, Slovakia), and 3 are members of the Eastern Partnership (Belarus, Ukraine, Georgia). In order to improve mobility between research, business and innovation, interrelated tandem relations between research organizations and innovation support services have been established. Within the NoGAP project, we want to: - Identify the main drivers and obstacles of closer links between academia and the market in the field of secure, clean and efficient energy in the Eastern Partnership Region; - Develop a best practice methodology to enhance successful commercialization of research results, and to improve the management of these results; - Develop innovation support services, to foster the existing and establish new strategic partnerships; - Assess the opportunities for the establishment of sustainable Technology Transfer Centres (TTC) in the participating partner countries, on the basis of existing structures and good practice; - Improve the competencies of researchers, entrepreneurs and multipliers by organizing training; - Develop a list of pilot activities to foster mutually beneficial public-private partnerships between EU and Eastern Partnership countries in the energy sector; - Create and organize twinning partnerships between the regions; - Remote networking between EU and Eastern Partnership countries.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 86 340

SK Participant EC Financial Contribution: EUR 76 986

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: The Union of Slovak Clusters (UKS) is an association established in 2010, to initiate and support development of clusters and cluster policy in Slovakia, and to incorporate Slovak clusters into the European competitive partnership, including mutual know-how and technology transfer. It is the only organization representing clusters in Slovakia, and it has a national dimension, covering the entire territory of Slovakia. The main mission of UKS is to promote networking, partnerships and transfer of knowledge, experience and information between regions and SMEs through clusters. UKS supports the participation of clusters in international events and in international projects focused on education, development, research, innovation and know-how transfer. Currently, UKS is involved in 4 international projects (FP7, Central Europe, South East Europe, and the International Visegrad Fund). It is a member of the Steering Committee of the Priority Area 8 of the Danube Strategy (Competitiveness and cluster development); member of the National Committee for Priority Area 7 of the Danube Strategy; member of the working group "Partnership for Cohesion Policy" and Operational programme "Research and Innovation" for 2014-2020. UKS is a signatory of the Memorandum of Understanding, regarding cooperation in the field of cluster organization development and cluster policy support within the Danube Region countries, which involves cluster associations from the Czech Republic, Croatia, Bulgaria, Romania and Serbia. Additionally, in May 2014, UKS signed a Memorandum of Understanding, regarding cooperation in the field of internationalization towards the emerging markets of ASEAN, based on the networking of clusters as a V4-ASEAN Cluster Initiative.

SK Participant Project Cost: EUR 46 620

SK Participant EC Financial Contribution: EUR 41 569



Project Outcomes planned/real: The aim of the project is to improve the mobility between research, business and innovation. This is to be accomplished through the set of activities, which are divided into 5 main work packages. First of all, the identification of opportunities and bottlenecks related to cooperation and knowledge transfer between public research and industry is carried out. The main outcomes include the database of stakeholders in the 6 EaP countries within the societal challenge secure, clean and efficient energy, including interviews with at least 200 identified stakeholders. Secondly, the innovation support services to foster innovation partnerships in the societal challenge addressed will be developed. In this respect, 2 handbooks (Services in IPR and Innovation Management; Innovation Environment), and 2 brochures (financing issues in technology transfer and innovation; technical assistance services related to market access) will be elaborated. The innovation support services will be implemented and validated through pilot actions. These will help to develop the skills and knowledge related to writing a Business Plan, and to understand the importance of a proper demand and supply of technology. Additionally, some company profiles and expressions of interest will be generated. One of the key outcomes of the project is also to elaborate training materials, and to deliver the trainings to multipliers, SMEs and researchers, focused on energy efficiency and renewable energy. Additionally, a series of company visits and innovation audit reports will be generated. Finally, twinning activities will be conducted, in order to promote networking between organizations from different areas.

Slovak Participant's Role in Project: The main tasks of UKS within the project NoGAP include the analysis of existing policy strategies related to the societal challenge to secure clean and efficient energy at national, EU and macro-regional level. The analysis includes the national energy plans of Armenia, Azerbaijan, Belarus, Georgia, Moldova and Ukraine – the Eastern Partnership countries covered by the project. The EU and macro-regional approach is represented mainly by the overview of the Baltic Sea Strategy, the Danube Strategy, the Black Sea Synergy and EU Strategic Energy Technology Plan. In addition, UKS is responsible for the elaboration of training material – handbook for coach training, which serves as a manual for the delivery of trainings throughout the project. In all the other tasks of the project, UKS is a contributing partner.

5. Specific programme **EURATOM**

5.1 Fission



ADRIANA

Project ID: 249687

Project Title: ADvanced Reactor Initiative And Network Arrangement

Project website: <http://adriana.ujv.cz/>

Project Start Date: 2010-02-01

Project End Date: 2011-07-31

Project Total Cost: EUR 1 429 911.2

Project EC Financial Contribution: EUR 992 650

Slovak participant Name: VUJE, a.s.

Slovak participant address: Okružná 5, 918 64 Trnava

Contact person email/ phone: Dr. Ján Bahna, +421 3 35 991 197, Jan.Bahna@vuje.sk

Partners of the Consortium: Coordinator:

USTAV JADERNEHO VYZKUMU REZ A.S. - CZECH REPUBLIC

PARTICIPANTS: HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV - GERMANY

KARLSRUHER INSTITUT FUER TECHNOLOGIE - GERMANY

CENTRUM VYZKUMU REZ S.R.O. - CZECH REPUBLIC

STUDIECENTRUM VOOR KERNENERGIE - BELGIUM

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE

LAGRANGE SARL - FRANCE

NUCLEAR RESEARCH AND CONSULTANCY GROUP - NETHERLANDS

MAGYAR TUDOMANYOS AKADEMIA KFKI ATOMENERGIA KUTATOINTEZET - HUNGARY

LATVIJAS UNIVERSITATES AGENTURAI LATVIJAS UNIVERSITATES FIZIKAS INSTITUTS

- LATVIA

REGIA AUTONOMA PENTRU ACTIVITATI NUCLEARE DROBETA TR. SEVERIN RA

SUCURSALA CERCETARI NUCLEARE PITESTI - ROMANIA

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO

ECONOMICO SOSTENIBILE - ITALY

INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE - FRANCE

JRC - JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM

VUJE, A.S. - SLOVAKIA

Project Description: ADRIANA (ADvanced Reactor Initiative And Network Arrangement) is a coordination action supported by the Euratom 7th Framework Programme, dedicated to the mapping and gap analysis of research infrastructures in support of the European Sustainable Nuclear Industrial Initiative (ESNII) established under the umbrella of the Sustainable Nuclear Energy Technology Platform (SNETP).

It will thus contribute to Europe's objectives of achieving the security of energy supply with a competitive, low-carbon energy mix.

Project Objectives: The coordinating action ADRIANA (ADvanced Reactor Initiative And Network Arrangement) is designed to setting up the network dedicated to the construction and operation of research infrastructures in support of developments for the European Industrial Initiative for sustainable nuclear fission. As the basis for the current long-term coordination activities of EURATOM performed with the financial support of the European Commission for construction of research infrastructure in the frame of Structural Funds of the European Union, the project devises a program of utilization of built-up facilities for the given purpose. For this purpose, the project defines in detail the new research infrastructures required, outlines and provides legal and financial structures for major refurbishment or upgrading of existing facilities, the construction of new ones and considers the transnational access to these experimental facilities. Assurance of long-term reliable and competitive energy resources has been an indispensable requirement for sustainable development of EU communities and their competitive position in the context of world economic development and political influence in the process of global governance. The project fulfils the given objectives for reactor systems and connecting technologies: Sodium Fast Reactor (SFR); Lead Fast Reactor (LFR); Gas Fast Reactor (GFR, including high temperature technologies); Instrumentation, diagnostics and experimental devices; Irradiation facilities and hot laboratories; Zero power reactors; Road map of research infrastructures.

Profile of Slovak Participant/ -s: VUJE Inc. is a company with a tradition of over 30 years in nuclear energy. At present, it has over 800 employees. Its basic orientation is applied research and development in the area of operation of NPP with VVER in relevant fields – nuclear safety, fuel cycle management including advanced cycles, operational diagnostics and inspections, preparation and support of NPP operation, start-up, requalification and decommissioning of nuclear facilities, ICT, RA waste management, SAM, PLIM, training of staff and other related activities. In recent years VUJE participated in the development and evaluation of advanced nuclear fuel cycles and technologies. Performed numerical analyses (project LWR-DEPUTY) confirmed significant potential of the reactors VVER-440 with inert matrix fuel to significantly reduce (3-times) the mass of Pu, produced as by-product of electricity generation without substantial reactor changes. Parameters characterising Pu generation were compared with performance of fast reactor at this field (SUPERPHENIX). Inclusion of fast reactors into the fleet of PWR (VVER) reactors was evaluated in the IAEA project GAINS (part of INPRO - IAEA activity). The main contribution of VUJE Inc. to ALLEGRO design preparation lies in the following fields: (1) Core - thermal hydraulic design, reactivity control, decay heat removal, (2) Containment, (3) I&C - structure, defence in depth, RPS, RLS, RCS, operational I&C, control room, TSC, (4) Power supply - off site, on site AC and DC, emergency, I&C, (5) Auxiliary systems - fuel handling, ventilation, fire protection and (6) Safety analysis.

SK Participant Project Cost: EUR 11 968

SK Participant EC Financial Contribution: EUR 8 002

Project Outcomes planned/real: The coordinating action ADRIANA is proposed to setting up the network dedicated to the construction and operation of research infrastructures in support of developments for the European Industrial Initiative for sustainable nuclear fission. For this purpose, the project defines in detail the new research infrastructures required, outlines and provides legal and financial structures for major refurbishment or upgrading of existing facilities, the construction of new ones and considers the transnational access to these experimental facilities.

Slovak Participant's Role in Project: Member of the consortium participating in detailed defining of the new research infrastructures required; defining and providing legal and financial structures for major refurbishment or upgrading of existing facilities; constructing new facilities and considering the transnational access to these experimental facilities with the focus on Generation IV reactors.

ALLIANCE

Project ID: 323295

Project Title: Preparation of ALLEGRO - Implementing Advanced Nuclear Fuel Cycle in Central Europe

Project website: <http://energia.mta.hu/>

Project Start Date: 2012-10-01

Project End Date: 2015-09-30

Project Total Cost: EUR 1 396 860

Project EC Financial Contribution: EUR 850 000

Slovak participant Name: VUJE, a.s.

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Partners of the Consortium: Coordinator:

MAGYAR TUDOMANYOS AKADEMIA ENERGIATUDOMANYI KUTATOKOZPONT - HUNGARY

Participants: BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM - HUNGARY

NARODOWE CENTRUM BADAN JADROWYCH - POLAND

USTAV JADERNEHO VYZKUMU REZ A.S. - CZECH REPUBLIC

RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN - GERMANY

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE

INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE - FRANCE

CENTRUM VYZKUMU REZ S.R.O. - CZECH REPUBLIC

VUJE, A.S. - SLOVAKIA

Project Description: The ALLIANCE project focuses on the preparatory phase for developing the ALLEGRO demonstrator. The project is based on the Gas Fast Reactor (GFR) concept, one of the two alternative systems under the SET-Plans European Sustainable Nuclear Industrial Initiative (ESNII), expected to be built in Central Europe. ALLIANCE covers a number of preliminary studies in fuel management, R&D roadmap and infrastructures needs, siting, and the licensing roadmap, preliminary design and safety analysis.

Project Objectives: ALLIANCE integrates experience and knowledge gained from the past or ongoing related initiatives. Arguments on why GFR technology could be accepted in Europe as a complementary option of SFR are clearly stated. Furthermore, the project maps and highlights national or regional initiatives supporting the development of this technology and lists the countries interested in hosting the ALLEGRO demonstrator on its territory. The conditions for the site selection should be defined within this project. In addition, the project specification on licensing and construction period has been suggested. For the R&D activities as well as for the operational and decommissioning phases, specifications have been elaborated. These specifications cover the licensing roadmap, financing and project organisation setup. According to the latest concept, a common Centre of Excellence is to be established in Central Europe for GFR studies. The creation of the Centre will be the first step towards the integration of fuel and reactor safety research in the region.

Profile of Slovak Participant/ -s: VUJE Inc. is a company with a tradition of over 30 years in nuclear energy. At present, it has over 800 employees. Its basic orientation is applied research and development in the area of operation of NPP with VVER

in relevant fields – nuclear safety, fuel cycle management including advanced cycles, operational diagnostics and inspections, preparation and support of NPP operation, start-up, requalification and decommissioning of nuclear facilities, ICT, RA waste management, SAM, PLIM, training of staff and other related activities. In recent years VUJE participated in the development and evaluation of advanced nuclear fuel cycles and technologies. Performed numerical analyses (project LWR-DEPUTY) confirmed significant potential of the reactors VVER-440 with inert matrix fuel to significantly reduce (3-times) the mass of Pu, produced as by-product of electricity generation without substantial reactor changes. Parameters characterising Pu generation were compared with performance of fast reactor at this field (SUPERPHENIX). Inclusion of fast reactors into the fleet of PWR (VVER) reactors was evaluated in the IAEA project GAINS (part of INPRO - IAEA activity). The main contribution of VUJE Inc. to ALLEGRO design preparation lies in the following fields: (1) Core - thermal hydraulic design, reactivity control, decay heat removal, (2) Containment, (3) I&C - structure, defence in depth, RPS, RLS, RCS, operational I&C, control room, TSC, (4) Power supply - off site, on site AC and DC, emergency, I&C, (5) Auxiliary systems - fuel handling, ventilation, fire protection and (6) Safety analysis.

SK Participant Project Cost: EUR 431 975

SK Participant EC Financial Contribution: EUR 180 000

Project Outcomes planned/real: The ALLIANCE project focuses on the preparatory phase for developing the ALLEGRO demonstrator. The project is based on the Gas Fast Reactor (GFR) concept, one of the two alternative systems under the SET-Plans European Sustainable Nuclear Industrial Initiative (ESNII), expected to be built in Central Europe. ALLIANCE covers a number of preliminary studies in fuel management, R&D roadmap and infrastructures needs, siting, and the licensing roadmap, preliminary design and safety analysis.

Slovak Participant's Role in Project: Member of consortium taking part in specifying the content and planning of actions, phases and milestones leading to the design, construction and operation of ALLEGRO reactor in order to facilitate discussions about the demonstrator financing, siting and putting into operation. In the decommissioning phase, necessary tasks and items will be completed for each phase. Other tasks: specification of required conditions and time intervals for each item implementation, determination of resulting sequence of items/activities and their transformation into an acceptable and implementable schedule.

ASAMPSA_E

Project ID: 605001

Project Title: Advanced Safety Assessment Methodologies: extended PSA

Project website: <http://asamrsa.eu/>

Project Start Date: 2013-07-01

Project End Date: 2016-06-30

Project Total Cost: EUR 4 043 346.65

Project EC Financial Contribution: EUR 2 999 999.49

Slovak participant Name: VUJE, a.s.

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Partners of the Consortium: Coordinator:

INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE - FRANCE

Participants: NUCLEAR RESEARCH AND CONSULTANCY GROUP - NETHERLANDS

INSTITUT JOZEF STEFAN - SLOVENIA

ELECTRICITE DE FRANCE S.A. - FRANCE

FORSMARKS KRAFTGRUPP AB - SWEDEN

VGB POWERTECH E.V. - GERMANY

NARODOWE CENTRUM BADAN JADROWYCH - POLAND

BEL V - BELGIUM

STATE ENTERPRISE STATE SCIENTIFIC AND TECHNICAL CENTER FOR NUCLEAR AND RADIATION SAFETY - UKRAINE

LIETUVOS ENERGETIKOS INSTITUTAS - LITHUANIA

SCANDPOWER AB - SWEDEN

CAZZOLI ERRICO GIUSEPPECZZOLI CONSULTING CC - SWITZERLAND

IBERDROLA INGENIERIA Y CONSTRUCCION SA - SPAIN

TECHNICAL UNIVERSITY OF SOFIA - BULGARIA

AREVA NP SAS - FRANCE

TRACTEBEL ENGINEERING S.A. - BELGIUM

AMEC NUCLEAR UK LIMITED - UNITED KINGDOM

GESELLSCHAFT FUER ANLAGEN- UND REAKTORSICHERHEIT (GRS) MBH - GERMANY

RICERCA SUL SISTEMA ENERGETICO - RSE SPA - ITALY

NIER INGEGNERIA SPA - ITALY

UNIVERSITAET WIEN - AUSTRIA

UJV REZ, A.S. - CZECH REPUBLIC

INSTITUTE OF NUCLEAR RESEARCH AND NUCLEAR ENERGY - BULGARIAN ACADEMY OF SCIENCES - BULGARIA

NUBIKI NUCLEAR SAFETY RESEARCH INSTITUTE LTD. - HUNGARY

REGIA AUTONOMA PENTRU ACTIVITATI NUCLEARE DROBETA TR. SEVERIN RA

SUCURSALA CERCETARI NUCLEARE PITESTI - ROMANIA

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE - ITALY

AREXIS SARL - FRANCE

VUJE, A.S. - SLOVAKIA

VUJE, A.S. - SLOVAKIA

Project Description: N/A

Project Objectives: The project ASAMPSA_E aims to find best practice for the identification of nuclear accident situations with the help of Level 1-Level 2 PSA and for the definition of appropriate criteria for decision making in the European context. It offers a new framework to discuss, at a technical level, how extended PSA can be developed efficiently and be used to verify whether the robustness of NPPs in their environment is sufficient. It allows exchanges on the feasibility of "extended PSAs" able to quantify risks induced

by NPPs site (multi-unit reactors and spent fuel pools, modelling impact of internal initiating events, internal and external hazards on equipment and human recovery actions etc.).

Profile of Slovak Participant/ -s: VUJE Inc. is a company with a tradition of over 30 years in nuclear energy. At present, it has over 800 employees. Its basic orientation is applied research and development in the area of operation of NPP with VVER in relevant fields – nuclear safety, fuel cycle management including advanced cycles, operational diagnostics and inspections, preparation and support of NPP operation, start-up, requalification and decommissioning of nuclear facilities, ICT, RA waste management, SAM, PLIM, training of staff and other related activities. In recent years VUJE participated in the development and evaluation of advanced nuclear fuel cycles and technologies. Performed numerical analyses (project LWR-DEPUTY) confirmed significant potential of the reactors VVER-440 with inert matrix fuel to significantly reduce (3-times) the mass of Pu, produced as by-product of electricity generation without substantial reactor changes. Parameters characterising Pu generation were compared with performance of fast reactor at this field (SUPERPHENIX). Inclusion of fast reactors into the fleet of PWR (VVER) reactors was evaluated in the IAEA project GAINS (part of INPRO - IAEA activity). The main contribution of VUJE Inc. to ALLEGRO design preparation lies in the following fields: (1) Core - thermal hydraulic design, reactivity control, decay heat removal, (2) Containment, (3) I&C - structure, defence in depth, RPS, RLS, RCS, operational I&C, control room, TSC, (4) Power supply - off site, on site AC and DC, emergency, I&C, (5) Auxiliary systems - fuel handling, ventilation, fire protection and (6) Safety analysis.

SK Participant Project Cost: EUR 111 402.77

SK Participant EC Financial Contribution: 61 629.43

Project Outcomes planned/real: The project ASAMPSA_E aims to find best practice for the identification of nuclear accident situations with the help of Level 1-Level 2 PSA and for the definition of appropriate criteria for decision making in the European context. It offers a new framework to discuss, at a technical level, how extended PSA can be developed efficiently and be used to verify whether the robustness of NPPs in their environment is sufficient.

Slovak Participant's Role in Project: Member of consortium, participating at identifying good practices for the identification of nuclear accident situations with the help of Level 1-Level 2 PSA and for the definition of appropriate criteria for decision making in the European context and in exchanges on the feasibility of "extended PSAs" able to quantify risks induced by NPPs site (multi-units reactors and spent fuel pools, modelling impact of internal initiating events, internal and external hazards on equipment and human recovery actions etc.).

CESAM

Project ID: 323264

Project Title: Code for European Severe Accident Management

Project website: <http://www.grs.de/>

Project Start Date: 2013-04-01

Project End Date: 2017-03-31

Project Total Cost: EUR 6 266 433.6

Project EC Financial Contribution: EUR 3 597 179

SLOVAK PARTICIPANT 1

Slovak participant Name: VUJE, a.s.

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Mr. Juraj Jančovič, janovic@vuje.sk, +421 3 35 991 339

SLOVAK PARTICIPANT 2

Slovak participant Name: INZINIERSKA VYPOCTOVA SPOLOCNOST TRNAVA S.R.O.,
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Partners of the Consortium: Coordinator:

GESELLSCHAFT FUER ANLAGEN- UND REAKTORSICHERHEIT (GRS) MBH - GERMANY
PARTICIPANTS: INSTITUT JOZEF STEFAN - SLOVENIA

UNIVERSITAET STUTTGART - GERMANY

RUHR-UNIVERSITAET BOCHUM - GERMANY

KARLSRUHER INSTITUT FUER TECHNOLOGIE - GERMANY

DEPARTMENT OF ATOMIC ENERGY - INDIA

PAUL SCHERRER INSTITUT - SWITZERLAND

LIETUVOS ENERGETIKOS INSTITUTAS - LITHUANIA

CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-
CIEMAT - SPAIN

TEKNOLOGIAN TUTKIMUSKESKUS VTT - SUOMI/FINLAND

JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM

INSTITUTE OF NUCLEAR RESEARCH AND NUCLEAR ENERGY - BULGARIAN ACADEMY
OF SCIENCES - BULGARIA

NUBIKI NUCLEAR SAFETY RESEARCH INSTITUTE LTD. - HUNGARY

INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE - FRANCE

AREVA NP SAS - FRANCE

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO
ECONOMICO SOSTENIBILE – ITALY

VUJE, A.S. – SLOVAKIA

INZINIERSKA VYPOCTOVA SPOLOCNOST TRNAVA S.R.O., COMPANY FOR ENGINEERING
CALCULATIONS TRNAVA, LTD -SLOVAKIA

Project Description: N/A

Project Objectives: CESAM (Code for European Severe Accident Management) is a R&D project that aims in particular at the improvement of the European reference code ASTEC towards a usage in severe accident management analysis for nuclear power plants (NPP).

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: VUJE Inc. is a company with a tradition of over 30 years in nuclear energy. At present, it has

over 800 employees. Its basic orientation is applied research and development in the area of operation of NPP with VVER in relevant fields – nuclear safety, fuel cycle management including advanced cycles, operational diagnostics and inspections, preparation and support of NPP operation, start-up, requalification and decommissioning of nuclear facilities, ICT, RA waste management, SAM, PLIM, training of staff and other related activities. In recent years VUJE participated in the development and evaluation of advanced nuclear fuel cycles and technologies. Performed numerical analyses (project LWR-DEPUTY) confirmed significant potential of the reactors VVER-440 with inert matrix fuel to significantly reduce (3-times) the mass of Pu, produced as by-product of electricity generation without substantial reactor changes. Parameters characterising Pu generation were compared with performance of fast reactor at this field (SUPERPHENIX). Inclusion of fast reactors into the fleet of PWR (VVER) reactors was evaluated in the IAEA project GAINS (part of INPRO - IAEA activity). The main contribution of VUJE Inc. to ALLEGRO design preparation lies in the following fields: (1) Core - thermal hydraulic design, reactivity control, decay heat removal, (2) Containment, (3) I&C - structure, defence in depth, RPS, RLS, RCS, operational I&C, control room, TSC, (4) Power supply - off site, on site AC and DC, emergency, I&C, (5) Auxiliary systems - fuel handling, ventilation, fire protection and (6) Safety analysis.

SK Participant Project Cost: EUR 188 350

SK Participant EC Financial Contribution: EUR 97 662

Project Outcomes planned/real: CESAM (Code for European Severe Accident Management) is a R&D project that aims in particular at the improvement of the European reference code ASTEC towards a usage in severe accident management analysis for nuclear power plants.

Slovak Participant's Role in Project: VUJE as a member of consortium participated in elaboration of an ASTEC input deck, compared the ASTEC evaluations of SAM impact with MELCOR analyses (full power, LOCA and Station Blackout scenarios, open reactors). VUJE also participated in the development of a reference ASTEC input deck for VVER-440 SFP and applications on a complete loss of SFP cooling accident and in benchmark with MELCOR calculations.

SLOVAK PARTICIPANT 2

Project Objectives: N/A

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 307 800

SK Participant EC Financial Contribution: EUR 158 250

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ENEN-RU

Project ID: 249684

Project Title: ENEN COOPERATION WITH RUSSIA IN NUCLEAR EDUCATION, TRAINING AND KNOWLEDGE MANAGEMENT

Project website: <http://www.enen-assoc.org/>

Project Start Date: 2010-11-01

Project End Date: 2012-10-31

Project Total Cost: EUR 595 503

Project EC Financial Contribution: EUR 467 155

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak
Technical University (STUBA)

Slovak participant address: Vazovova 5, 812 43 Bratislava

Contact person email/ phone: Prof. Jan Hascik, +421 2 60 291 289, jan.hascik@stuba.sk

Partners of the Consortium:

RESEAU EUROPEEN POUR L ENSEIGNEMENT DES SCIENCES NUCLEAIRES - FRANCE
TECNATOM S.A. - SPAIN

UNIVERSITAET STUTTGART - GERMANY

UNIVERSITATEA POLITEHNICA DIN BUCURESTI - ROMANIA

STUDIECENTRUM VOOR KERNENERGIE - BELGIUM

CESKE VYSOKE UCENI TECHNICE V PRAZE - CZECH REPUBLIC

USTAV JADERNEHO VYZKUMU REZ A.S. - CZECH REPUBLIC

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY
(STUBA)- SLOVAKIA

Project Description: The entire project of cooperation with Russia in the development of common ground for cooperation in nuclear education, training and knowledge management consists of two parallel projects, i.e. this ENEN-RU project on the EU side and the project titled Innovative Nuclear Education Towards Peace, Prosperity & Sustainable Development on the Russian side.

Project Objectives: The objectives of the entire project are:
to define a common basis for effective cooperation between the European and Russian networks for nuclear Education and Training (E&T);
to define the needs of cooperation in the long term;
to establish a framework for mobility of teachers and students;
to conduct some pilot items for E&T;
to launch the knowledge management framework; and
to list up and promote further use of E&T facilities, laboratories and equipments.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 33 000

SK Participant EC Financial Contribution: EUR 29 425

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ENEN-RU II

Project ID: 605149

Project Title: Strengthening of Cooperation and Exchange for Nuclear Education and Training between the European Union and the Russian Federation

Project website: N/A

Project Start Date: 2014-07-01

Project End Date: 2017-06-30

Project Total Cost: EUR 645 589.2

Project EC Financial Contribution: EUR 530 000

Slovak participant Name: SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University in Bratislava (STUBA)

Slovak participant Address: Vazovova 5, 812 43 Bratislava

Contact person: Mr. Jan Hascik, jan.hascik@stuba.sk, +421 2 60 291 289

Partners of the Consortium:

RESEAU EUROPEEN POUR L'ENSEIGNEMENT DES SCIENCES NUCLEAIRES - FRANCE

STUDIECENTRUM VOOR KERNENERGIE - BELGIUM

CESKE VYSOKE UCENI TECHNICE V PRAZE - CZECH REPUBLIC

CENTRUM VYZKUMU REZ S.R.O. - CZECH REPUBLIC

UNIVERSITAET STUTTGART - GERMANY

TECHNISCHE UNIVERSITAET MUENCHEN - GERMANY

CONSORZIO INTERUNIVERSITARIO NAZIONALE PER LA RICERCA TECNOLOGICA NUCLEARE - ITALY

UNIVERSITATEA POLITEHNICA DIN BUCURESTI - ROMANIA

SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, SLOVAK TECHNICAL UNIVERSITY IN BRATISLAVA (STUBA) - SLOVAKIA

TECNATOM S.A. - SPAIN

THE UNIVERSITY OF MANCHESTER - UNITED KINGDOM

Project Description: The entire project of cooperation with Russia titled "Strengthening of Cooperation and Exchange for Nuclear Education and Training between the European Union and the Russian Federation" consist of two parallel projects on the EU side and the Russian side. The objectives of the entire project are:

- based on the achievements of the FP7 ENEN-RU project, to further define a common basis for effective cooperation between the European and Russian networks for nuclear Education & Training (E&T);
- to define a detailed implementation plan based on the needs of cooperation in the long-term agreed during the ENEN-RU project;
- to solve the difficulties for cooperation found during the ENEN-RU project; to implement the plan in a sustainable manner;
- to operate the knowledge management framework;
- to list up and promote further use of E&T facilities, laboratories and equipments.

Project Objectives: Based on the achievements of the FP7 ENEN-RU project, the ENEN-RU II project will further develop the framework of cooperation between the EU and the Russian Federation in terms of Nuclear Education and Training. It includes further analysis of short-term and long-term manners of cooperation, define opportunities and barriers for cooperation, and organise exchange courses and training sessions with EU and Russian participants during the project. The project will provide the basis for mutual recognition of the E & T programmes on both sides and expand the scope of the student, researcher and young professional exchanges. This would offer to nuclear research institutes and industry a broader basis of human resources and foster cooperation in nuclear power development. The focus of the project lies in the Master level and postgraduate education, and in training of young professionals. The overall management of the project is assured by the ENEN Association, in close cooperation with the WP leaders in the Project Committee and with the Russian counterparts through the EU-Russian Project Committee.

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 39 031.2

SK Participant EC Financial Contribution: EUR 34 500

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

ESNII PLUS

Project ID: 605172

Project Title: Preparing ESNII for HORIZON 2020

Project website: <http://www.cea.fr/>

Project Start Date: 2013-09-01

Project End Date: 2017-08-31

Project Total Cost: EUR 10 346 993.4

Project EC Financial Contribution: EUR 6 455 000

Slovak participant Name: VUJE, a.s.

Slovak participant address: Okružná 5, 918 64 Trnava

Contact person email/ phone: Mr. Peter Liska, peter.liska@vuje.sk, +421 3 35 991 155

Partners of the Consortium: Coordinator:

COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE

Participants: NUCLEAR RESEARCH AND CONSULTANCY GROUP - NETHERLANDS

CHALMERS TEKNISKA HOEGSKOLA AB - SWEDEN

UNIVERSIDAD POLITECNICA DE MADRID - SPAIN

TECHNISCHE UNIVERSITEIT DELFT - NETHERLANDS

ELECTRICITE DE FRANCE S.A. - FRANCE

NARODOWE CENTRUM BADAN JADROWYCH - POLAND

KARLSRUHER INSTITUT FUER TECHNOLOGIE - GERMANY

UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA - ITALY

AREVA NP SAS - FRANCE

NUMERIA CONSULTING S.R.L. - ITALY

NUVIA TRAVAUX SPECIAUX SAS - FRANCE

CONSORZIO INTERUNIVERSITARIO NAZIONALE PER LA RICERCA TECNOLOGICA NUCLEARE - ITALY

HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV - GERMANY

STUDIECENTRUM VOOR KERNENERGIE - BELGIUM

TRACTEBEL ENGINEERING S.A. - BELGIUM

EMPRESARIOS AGRUPADOS INTERNACIONA L SA - SPAIN

MAGYAR TUDOMANYOS AKADEMIA ENERGIATUDOMANYI KUTATOKOZPONT - HUNGARY

UNIVERSITAT POLITECNICA DE VALENCIA - SPAIN

AMEC NUCLEAR UK LIMITED - UNITED KINGDOM

GESELLSCHAFT FUER ANLAGEN- UND REAKTORSICHERHEIT (GRS) MBH - GERMANY

CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT - SPAIN

PAUL SCHERRER INSTITUT - SWITZERLAND

RICERCA SUL SISTEMA ENERGETICO - RSE SPA - ITALY

LATVIJAS UNIVERSITATES AGENTURA LATVIJAS UNIVERSITATES FIZIKAS INSTITUTS - LATVIA

SINTEC S.R.L. - ITALY

ANSALDO NUCLEARE SPA - ITALY

JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM

UJV REZ, A.S. - CZECH REPUBLIC

REGIA AUTONOMA PENTRU ACTIVITATI NUCLEARE DROBETA TR. SEVERIN RA

SUCURSALA CERCETARI NUCLEARE PITESTI - ROMANIA

NATIONAL NUCLEAR LABORATORY LIMITED - UNITED KINGDOM

LGI CONSULTING - FRANCE

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE - ITALY

KUNGLIGA TEKNISKA HOEGSKOLAN - SWEDEN

VUJE, A.S. - SLOVAKIA

Project Description: ESNII+ is a crosscutting project designed to develop a broad strategic approach to advanced fission systems in Europe. It is embedded in the European Sustainable Industrial Initiative (ESNII) to prepare structures and deployment strategy and to ensure efficient European coordinated research on Reactor Safety for the next generation of nuclear installations. It also aims to define strategic orientations for Horizon 2020 with a vision to 2050. In detail, it coordinates and supports the preparatory phase of legal, administrative, financial and governance structures, and ensures the review of the various advanced reactor solutions.

Project Objectives: The aim of this cross-cutting project is to develop a broad strategic approach to advanced fission systems in Europe in support of the European Sustainable Industrial Initiative (ESNII) within the SET-Plan. The project aims to prepare ESNII structuration and deployment strategy, to ensure efficient European coordinated research on Reactor Safety for the next generation of nuclear installations, linked with SNETP SRA priorities.

The ESNII+ project aims to define strategic orientations for the Horizon 2020 period, with a vision to 2050. To achieve the objectives of ESNII, the project coordinates and supports the preparatory phase of legal, administrative, financial and governance structuration, and ensures the review of various advanced reactor solutions. The project involves private and public stakeholders, including industry, research and academic communities, with opened door to international collaboration, involving TSO.

Profile of Slovak Participant/ -s: VUJE Inc. is a company with a tradition of over 30 years in nuclear energy. At present, it has over 800 employees. Its basic orientation is applied research and development in the area of operation of NPP with VVER in relevant fields – nuclear safety, fuel cycle management including advanced cycles, operational diagnostics and inspections, preparation and support of NPP operation, start-up, requalification and decommissioning of nuclear facilities, ICT, RA waste management, SAM, PLIM, training of staff and other related activities. In recent years VUJE participated in the development and evaluation of advanced nuclear fuel cycles and technologies. Performed numerical analyses (project LWR-DEPUTY) confirmed significant potential of the reactors VVER-440 with inert matrix fuel to significantly reduce (3-times) the mass of Pu, produced as by-product of electricity generation without substantial reactor changes. Parameters characterising Pu generation were compared with performance of fast reactor at this field (SUPERPHENIX). Inclusion of fast reactors into the fleet of PWR (VVER) reactors was evaluated in the IAEA project GAINS (part of INPRO - IAEA activity). The main contribution of VUJE Inc. to ALLEGRO design preparation lies in the following fields: (1) Core - thermal hydraulic design, reactivity control, decay heat removal, (2) Containment, (3) I&C - structure, defence in depth, RPS, RLS, RCS, operational I&C, control room, TSC, (4) Power supply - off site, on site AC and DC, emergency, I&C, (5) Auxiliary systems - fuel handling, ventilation, fire protection and (6) Safety analysis.

SK Participant Project Cost: EUR 46 017

SK Participant EC Financial Contribution: EUR 24 580

Project Outcomes planned/real: The aim of this cross-cutting project is to develop a broad strategic approach to advanced fission systems in Europe in support of the European Sustainable Industrial Initiative (ESNII) within the SET-Plan. The project aims to prepare ESNII structuration and deployment strategy, to ensure efficient European coordinated research on Reactor Safety for the next generation of nuclear installations, linked with SNETP SRA priorities.

Slovak Participant's Role in Project: Member of consortium participating especially in specific studies for a fast reactor system for the determination of functional specification of the dedicated test facilities using gas as a coolant, setting up a roadmap for the qualification and testing of infrastructure, specifying ALLEGRO core safety parameters and influence of model uncertainties on transients.

IPPA

Project ID: 269849

Project Title: Implementing Public Participation Approaches in Radioactive Waste Disposal

Project website: <http://www.ippaproject.eu/>

Project Start Date: 2011-01-01

Project End Date: 2013-12-31

Project Total Cost: EUR 2 398 335

Project EC Financial Contribution: EUR 1 599 988

SLOVAK PARTICIPANT 1

Slovak participant Name: DECOM A.S.

Slovak participant address: Sibirska 1, 917 01 Trnava

Contact person email/ phone: Ing. Adela Mršková, mrskova@decom.sk, +421 33 5992091, Dr. Jozef Pritrsky, pritrsky@decom.sk, +421 3 35 992 088

SLOVAK PARTICIPANT 2

Slovak participant Name: UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, Matej Bel University in Banska Bystrica

Slovak participant address: Národná 12, 974 01 Banská Bystrica

Contact person email/ phone: Ing. Peter Mihók, PhD., +421905746884, peter.mihok@umb.sk, Mr. Michal Dobrik, michal.dobrik@umb.sk, +421 4 84 466 216

Partners of the Consortium:

KARITA RESEARCH AB - SWEDEN

PARTICIPANTS: TAMPEREEN YLIOPISTO - SUOMI/FINLAND

REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE - REC - HUNGARY

INSTYTUT CHEMII I TECHNIKI JADROWEJ - POLAND

INSTYTUT ENERGII ATOMOWEJ POLATOM - POLAND

MUTADIS CONSULTANTS SARL - FRANCE

ASOCIATIA ROMANA ENERGIA NUCLEARA - ROMANIA

GALSON SCIENCES LIMITED - UNITED KINGDOM

UNIVERZA V LJUBLJANI - SLOVENIA

OEKO-INSTITUT E.V. - INSTITUT FUER ANGEWANDTE OEKOLOGIE - GERMANY

CENTER FOR THE STUDY OF DEMOCRACY - BULGARIA

REGIA AUTONOMA PENTRU ACTIVITATI NUCLEARE DROBETA TR. SEVERIN RA

SUCURSALA CERCETARI NUCLEARE PITESTI - ROMANIA

RADIOACTIVE WASTE REPOSITORY AUTHORITY - CZECH REPUBLIC

USTAV JADERNEHO VYZKUMU REZ A.S. - CZECH REPUBLIC

DECOM A.S. - SLOVAKIA

UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, MATEJ BEL UNIVERSITY IN BANSKA BYSTRICA (MBU) - SLOVAKIA

Project Description: The focus of IPPA is the establishment of arenas where different stakeholders can move forward together to increase their understanding of the issues involved in radioactive waste disposal and of their respective views. Emphasis is put on implementation in certain Central and Eastern European countries. The overall structure is in one end to take stock of existing research results and other experiences for implementation, and in the other end to evaluate to provide feedback to knowledge and research.

Project Objectives: The framework of the "Implementing Geological Disposal of Radioactive Waste Technology Platform" (IGD-TP) project can be a suitable forum in which to investigate these issues further. Therefore, emphasis is put on linking IPPA results to the development of the platform. Work Package 1 provides participants with information and overview of theoretical achievements and practical experience both from research and national programmes that should be valuable when organizing activities and arenas for participation and transparency. An information package on basic approaches is produced for that purpose.

In Work Package 2, the RISCOS Model and other approaches to public involvement are implemented in five radioactive waste management (RWM) programmes in Central and Eastern European countries. Practical implementation activities will vary among the different countries, as the status of the programmes, other national and local factors and issues of debate differ.

In Work Package 3, certain issues of common interest for all countries and for groups of countries will be investigated: cross-border issues (such as Environmental Impact Assessment and the Espoo Convention); the regional repository option and application of the Aarhus Convention. The ARGONA empirical data for analysing how negotiations on compensation can be implemented at the local level; the study ended in specific recommendations on the issue. In Work Package 4, these and other issues will be further examined and communicated with municipalities in participating countries.

In Work Package 5 a review will be made of activities in Work Package 2 in order to provide feedback to these activities and also to the European knowledge base for processes of participation and transparency.

The dissemination of IPPA approaches and results will take place in Work Package 6. A project website will be developed and maintained, and an End Users Conference will be organized toward the end of project.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: DECOM, a.s. is a company with a 21-year history of providing engineering and consultancy services in nuclear energy for customers in Slovakia and abroad, mainly in NPP decommissioning and waste management planning and documentation. The company was involved in the development of deep geological repository in Slovakia as coordinator of research works. Its current main activities include technical support in technical and economic analyses of nuclear installation decommissioning, radioactive waste management and EIA assessment procedures. DECOM has participated in a number of international projects related to radioactive waste and spent nuclear fuel management including public involvement.

SK Participant Project Cost: EUR 124 800

SK Participant EC Financial Contribution: EUR 70 200

Project Outcomes planned/real: The focus of the IPPA project lies in the establishment of arenas where different stakeholders are able to move forward together to increase their understanding of the issues involved in radioactive waste disposal and of their respective views. Emphasis is put on the implementation of public participation methodology RISCUM in selected Central and Eastern European countries, as well as on the contribution to overall European investigation related to public participation, such as cross border issues, Aarhus convention, regional repositories or added value understanding. DECOM and MBU jointly published Deliverables 2.4 and 2.5 concerning implementation of the national level activities in Slovakia. MBU was the sole author of Deliverables 3.1 and 3.2 concerning "Cross-border issues" and of Deliverable 4.4 concerning "Added value approaches in Slovakia." DECOM was the sole author of Deliverables 3.3 to 3.5 concerning "Regional Repositories and the Public."

Slovak Participant's Role in Project: DECOM and MBU are responsible for national-level activities in Slovakia focused on the implementation of novel methods and approaches of public involvement in radioactive waste management in Slovakia. Working group meetings for discussing waste management issues, as well as seminars for discussing public participation issues in waste disposal were organised. MBU has been the key partner responsible for the activities of the sub WP 3.1 "Cross border issues." MBU has also participated in the WP 4 "Added value approaches." In addition, DECOM has been responsible for research activities focused on Regional Repositories and for public issues.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Univerzita Mateja Bela v Banskej Bystrici (Matej Bel University in Banska Bystrica, MBU) was established in 1992 as a public university. It consists of six faculties with almost 600 academic employees and approximately 10 500 students. The university has signed collaborative agreements with more than 30 universities world-wide. In 2013, UMB successfully passed a certification audit of the quality system as required by international standard ISO 9001:2008. International research collaboration of the university has been rapidly developing in recent years. Most of international (mainly FP) projects have been carried out by the Centre for Science and Research and its institutes. The Institute of Social and Cultural Studies of the Faculty of Arts (part of the Centre) has been participating in FP projects successfully since 2002. The research team of social scientists focuses on several areas of research: urban studies, diversity, identity, gender, gender and science, mobility and cultural heritage.

SK Participant Project Cost: EUR 69 720

SK Participant EC Financial Contribution: EUR 52 290



Project Outcomes planned/real: The focus of the IPPA project lies in the establishment of arenas where different stakeholders are able to move forward together to increase their understanding of the issues involved in radioactive waste disposal and of their respective views. Emphasis is put on the implementation of public participation methodology RISCUM in selected Central and Eastern European countries, as well as on the contribution to overall European investigation related to public participation, such as cross border issues, Aarhus convention, regional repositories or added value understanding. DECOM and MBU jointly published Deliverables 2.4 and 2.5 concerning implementation of the national level activities in Slovakia. MBU was the sole author of Deliverables 3.1 and 3.2 concerning "Cross-border issues" and of Deliverable 4.4 concerning "Added value approaches in Slovakia." DECOM was the sole author of Deliverables 3.3 to 3.5 concerning "Regional Repositories and the Public."

Slovak Participant's Role in Project: DECOM and MBU are responsible for national-level activities in Slovakia focused on the implementation of novel methods and approaches of public involvement in radioactive waste management in Slovakia. Working group meetings for discussing waste management issues, as well as seminars for discussing public participation issues in waste disposal were organised. MBU has been the key partner responsible for the activities of the sub WP 3.1 "Cross border issues." MBU has also participated in the WP 4 "Added value approaches." In addition, DECOM has been responsible for research activities focused on Regional Repositories and for public issues.

MMOTION

Project ID: 211388

Project Title: Man-machine-organisation through innovative orientations for nuclear energy

Project website: <http://www.mmotion.org/>

Project Start Date: 2009-01-01

Project End Date: 2011-31-01

Project Total Cost: EUR 2 253 873

Project EC Financial Contribution: EUR 1 416 440

Slovak participant Name: VUJE, a.s.

Slovak participant address: Okružná 5, 918 64 Trnava

Contact person email/ phone: Mr. Matej Korec, korec@vuje.sk, +421 3 35 991 24

Partners of the Consortium: Coordinator:

ELECTRICITE DE FRANCE S.A. - FRANCE
PARTICIPANTS: BRITISH ENERGY GENERATION LTD - UNITED KINGDOM
ERDYN CONSULTANTS - FRANCE
COMMISSARIAT ENERGIE ATOMIQUE CEA - FRANCE
VALTION TEKNIINLINEN TUTKIMUSKESKUS - SUOMI/FINLAND
INSTITUTT FOR ENERGIETEKNIKK - NORWAY
ABB AG - GERMANY
ATOS ORIGIN NEDERLAND - NETHERLAND S
ISAR-INSTITUTE FOR SAFETY AND RELIABILITY GMBH - GERMANY
USTAV JADERNEHO VYZKUMU REZ A.S. - CZECH REPUBLIC
VUJE, A.S. - SLOVAKIA

Project Description: MMOTION is a support action answering the call EURATOM-Fission-2007 targeting a better understanding of Man-Machine-Organization (MMO) in the operation of nuclear installations. There are eleven partners involved in the project, each of them having a background in the nuclear field of research, representing utilities, industry, and research centres. The project is coordinated by EdF, which is also responsible for communication with the European Commission.

The project started on 1 January 2009 and ended on 31 December 2010, and included activities such as discussion panels, focused studies, analysis, a pilot exercise, road mapping and dissemination. The work is structured into four work packages, broken down into themes and panels, each with its own leader responsible for good work development, and generation of deliverables, the most important one being the roadmap itself as it will indicate future research priorities.

Project Objectives: The objective of MMOTION is to analyse the current situation and future trends concerning man-machine organization and safety-related aspects, and to propose a European research road map for the period 2010-2015 to comprehensively address the recognised issues. MMOTION will investigate three major themes: Human-System-Interface Design and Automation; Organizational and Cultural factor; and MMO qualitative and quantitative evaluation.

Profile of Slovak Participant/ -s: VUJE Inc. is a company with a tradition of over 30 years in nuclear energy. At present, it has over 800 employees. Its basic orientation is applied research and development in the area of operation of NPP with VVER

in relevant fields – nuclear safety, fuel cycle management including advanced cycles, operational diagnostics and inspections, preparation and support of NPP operation, start-up, requalification and decommissioning of nuclear facilities, ICT, RA waste management, SAM, PLIM, training of staff and other related activities. In recent years VUJE participated in the development and evaluation of advanced nuclear fuel cycles and technologies. Performed numerical analyses (project LWR-DEPUTY) confirmed significant potential of the reactors VVER-440 with inert matrix fuel to significantly reduce (3-times) the mass of Pu, produced as by-product of electricity generation without substantial reactor changes. Parameters characterising Pu generation were compared with performance of fast reactor at this field (SUPERPHENIX). Inclusion of fast reactors into the fleet of PWR (VVER) reactors was evaluated in the IAEA project GAINS (part of INPRO - IAEA activity). The main contribution of VUJE Inc. to ALLEGRO design preparation lies in the following fields: (1) Core - thermal hydraulic design, reactivity control, decay heat removal, (2) Containment, (3) I&C - structure, defence in depth, RPS, RLS, RCS, operational I&C, control room, TSC, (4) Power supply - off site, on site AC and DC, emergency, I&C, (5) Auxiliary systems - fuel handling, ventilation, fire protection and (6) Safety analysis.

SK Participant Project Cost: EUR 94 200

SK Participant EC Financial Contribution: EUR 69 015

Project Outcomes planned/real: The primary objective of the project is gaining a better understanding of Man-Machine-Organization in the operation of nuclear installations. The objective of MMOTION is to analyse the current situation and future trends concerning MMO and safety-related aspects, and to propose a European research road map for the period 2010-2015 to comprehensively address the recognised issues. MMOTION scientific approach will cover all aspects of the human factor.

Slovak Participant's Role in Project: Member of consortium, participating predominantly in research programs RP1 'Risk informed decision-making in design and operation' dedicated to balancing human and technological contributions to minimise the risk in the operation of nuclear installations' and RP3 'Integrated design approaches' focusing on better integrating human and organisational factors within the design of future nuclear installations or the renewal of existing I&C systems.

NC2I-R

Project ID: 605167

Project Title: Nuclear Cogeneration Industrial Initiative - Research and Development Coordination

Project website: <http://www.ncbj.gov.pl/en>

Project Start Date: 2013-10-01

Project End Date: 2015-09-30

Project Total Cost: EUR 2 503 215.8

Project EC Financial Contribution: EUR 1 834 990

Slovak participant Name: VUJE, a.s.

Slovak participant address: Okružná 5, 918 64 Trnava

Contact person email/ phone: Dr. Milan Cvan, Milan.Cvan@vuje.sk, +421 3 35 991 984

Partners of the Consortium: Coordinator:

NARODOWE CENTRUM BADAN JADROWYCH - POLAND

Participants: NUCLEAR RESEARCH AND CONSULTANCY GROUP - NETHERLANDS

BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM - HUNGARY

POLITECHNIKA WARSZAWSKA - POLAND

TECHNISCHE UNIVERSITAET DRESDEN - GERMANY

AKADEMIA GORNICZO-HUTNICZA IM. STANISLAWA STASZICA W KRAKOWIE - POLAND

LIETUVOS ENERGETIKOS INSTITUTAS - LITHUANIA

AMEC NUCLEAR UK LIMITED - UNITED KINGDOM

AREVA GMBH - GERMANY

NOORDWES-UNIVERSITEIT - SOUTH AFRICA

FORSCHUNGSZENTRUM JUELICH GMBH - GERMANY

CENTRUM VYZKUMU REZ S.R.O. - CZECH REPUBLIC

E.ON KERNKRAFT GMBH - GERMANY

PROCHEM SA - POLAND

FORTUM POWER AND HEAT OY - SUOMI/FINLAND

JRC - JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM

TUV RHEINLAND INDUSTRIE SERVICE GMBH - GERMANY

AREVA NP SAS - FRANCE

INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE - FRANCE

LGI CONSULTING - FRANCE

VUJE, A.S. - SLOVAKIA

Project Description: A total of 21 partners both from Poland and abroad are involved in NCBJ-coordinated research project to study the feasibility of using nuclear reactors to produce not only electric power but also heat. The EUR 2.5 million worth project is quite a challenge for the researchers. Success might help to secure supplies of energy for the nation and to reduce emission of greenhouse gases.

Project Objectives: The strategic objective of NC2I-R is to structure the European public and private R&D capabilities for delivering a nuclear cogeneration demonstrator fully meeting the market needs, in support of the Nuclear Cogeneration European Industrial Initiative.

Following the reference EUROPAIRS project and in close collaboration with the ongoing ARCHER project, national projects (e.g. Polish HTRPL, German SYNKOPE), non-EU HTR programs (US, China, South Korea, South Africa) and Generation IV International Forum, NC2I-R will bring a decisive contribution to prepare for a successful, low-risk and rapid European nuclear cogeneration demonstration for Europe's industry.

To this end, NC2I-R will:

- 1) Structure the European public and private R&D capacities towards nuclear cogeneration demonstration and identify clearly the status of Europe's public and private R&D infrastructures and competences;
- 2) Define the safety requirements to prepare for the future licensing process for a cogeneration demonstrator and limit the associated risk;
- 3) Define clear and consensual specifications for the demonstrator, ensuring its economic viability, its market fit, its future replicability and its safety, in particular of the coupling scheme, and limiting all construction project risks;
- 4) Managing the knowledge from past projects on HTR and nuclear cogeneration with a comprehensive experience feedback in order to identify potential points of attention and success factors;
- 5) Prepare on a joint roadmap paving the way for today's European R&D capacities towards the commissioning of the specified demonstrator and identify potential gaps;
- 6) Prepare for and organise cooperation with similar non-European programmes to possibly share the demonstrator risk in line with the European interest and to secure EU's leadership position in the global competition for HTR;
- 7) Prepare a smooth and inclusive governance for the future NC2I, engaging all stakeholders including civil society into a wide.

Profile of Slovak Participant/ -s: VUJE Inc. is a company with a tradition of over 30 years in nuclear energy. At present, it has over 800 employees. Its basic orientation is applied research and development in the area of operation of NPP with VVER in relevant fields – nuclear safety, fuel cycle management including advanced cycles, operational diagnostics and inspections, preparation and support of NPP operation, start-up, requalification and decommissioning of nuclear facilities, ICT, RA waste management, SAM, PLIM, training of staff and other related activities. In recent years VUJE participated in the development and evaluation of advanced nuclear fuel cycles and technologies. Performed numerical analyses (project LWR-DEPUTY) confirmed significant potential of the reactors VVER-440 with inert matrix fuel to significantly reduce (3-times) the mass of Pu, produced as by-product of electricity generation without substantial reactor changes. Parameters characterising Pu generation were compared with performance of fast reactor at this field (SUPERPHENIX). Inclusion of fast reactors into the fleet of PWR (VVER) reactors was evaluated in the IAEA project GAINS (part of INPRO - IAEA activity). The main contribution of VUJE Inc. to ALLEGRO design preparation lies in the following fields: (1) Core - thermal hydraulic design, reactivity control, decay heat removal, (2) Containment, (3) I&C - structure, defence in depth, RPS, RLS, RCS, operational I&C, control room, TSC, (4) Power supply - off site, on site AC and DC, emergency, I&C, (5) Auxiliary systems - fuel handling, ventilation, fire protection and (6) Safety analysis.

SK Participant Project Cost: EUR 77 116

SK Participant EC Financial Contribution: EUR 41 883

Project Outcomes planned/real: The strategic objective of NC2I-R is to structure the European public and private R&D capabilities so as to deliver a nuclear cogeneration demonstrator fully meeting the market needs, in support of the Nuclear Cogeneration European Industrial Initiative. Following the reference EUROPAIRS project and in close collaboration with the ongoing ARCHER project, national projects, non-EU HTR programs and Generation IV International Forum, NC2I-R will bring a decisive contribution to prepare for a successful, low-risk and rapid European nuclear cogeneration demonstration for Europe's industry.

Slovak Participant's Role in Project: Member of consortium, participating in experience feedback from nuclear cogeneration providing information from Slovakia's own experience on the safety assessment of co-generation installations (Bohunice), developing general specifications of demonstrator programme (incl. coupling), and assess the conditions for pooling resources at European level. There will be strong links with all other components of the NC2I-R project.

NERIS-TP

Project ID: 269718

Project Title: NERIS-TP: Towards a self-sustaining European Technology Platform (NERIS-TP) on Preparedness for Nuclear and Radiological Emergency Response and Recovery

Project website: <http://www.eu-neris.net/>

Project Start Date: 2011-02-01

Project End Date: 2014-01-31

Project Total Cost: EUR 2 722 760

Project EC Financial Contribution: EUR 1 455 74.5

Slovak participant Name: VUJE, a.s.

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NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS" - GREECE
UNIVERSIDAD POLITECNICA DE MADRID - SPAIN
BEREDSKABSSTYRELSEN - DENMARK
BUNDESAMT FUER STRAHLENSCHUTZ - GERMANY
MUTADIS CONSULTANTS SARL - FRANCE
SATEILYTURVAKESKUS - SUOMI/FINLAND
DANMARKS TEKNISKE UNIVERSITET - DENMARK
INSTITUTUL NATIONAL DE CERCETARE -DEZVOLTARE PENTRU FIZICA SI INGINERIE NUCLEARA "HORIA HULUBEI" (IFIN-HH) - ROMANIA
STUDIECENTRUM VOOR KERNENERGIE - BELGIUM
UNIVERSITETET FOR MILJO OG BIOVITENSKAP - NORWAY
NORWEGIAN RADIATION PROTECTION AUTHORITY - NORGE
PANEPISTIMIO DYTIKIS MAKEDONIAS (UNIVERSITY OF WESTERN MACEDONIA) - GREECE
PROLOG DEVELOPMENT CENTER A/S - DENMARK
HEALTH PROTECTION AGENCY HPA - UNITED KINGDOM
CENTRE D'ETUDE SUR L'EVALUATION DE LA PROTECTION DANS LE DOMAINE NUCLEAIRE - FRANCE
PDC-ARGOS APS - DENMARK
UKRAINIAN CENTER OF ENVIRONMENTAL AND WATER PROJECTS OF ACADEMY OF TECHNOLOGICAL SCIENCES OF UKRAINE LLC - UKRAINE

VUJE, A.S. - SLOVAKIA



Project Description: The Euratom NERIS-TP research project on "Preparedness for Nuclear and Radiological Emergency Response and Recovery" started in February 2011. The objectives of the project were, first, to solve urgent research needs such as the implementation of the new ICRP recommendations in the simulation models, and the coupling of decision support systems such as ARGOS and RODOS to early notification systems, and to carry out research activities devised to improve emergency management on the local and the national level, and second, to support the operation of the NERIS Platform in order to make it sustainable in the long term. The NERIS-TP dissemination workshop has allowed to present the results of the NERIS-TP project and to bring together best practice, knowledge and technology to enhance Europe's preparedness for any radiation emergency and recovery situation.

Project Objectives: This project aims, on the one hand, to keep the momentum gained through the European Project EURANOS in establishing a platform where the operational and research community can meet and discuss with all relevant stakeholders the topics related to emergency response and recovery preparedness, and, on the other hand, to tackle urgent research topics in the area of nuclear emergency response and recovery preparedness. It addresses the call Fission-2010-3.3.1: European platform on emergency and post-accident preparedness and management. Through a collaboration of industry, research and governmental organisations in Europe, methodological aspects and computational models will be developed in such a manner as to be consistent with recent recommendations issued by international bodies such as the ICRP (International Commission of Radiation Protection) and improve Europe's response by coupling the decision support systems with an early notification system such as ECURIE. Within this project, a platform will be established that will be a unique place for joint meeting of the research and the operational community.

Profile of Slovak Participant/ -s: VUJE Inc. is a company with a tradition of over 30 years in nuclear energy. At present, it has over 800 employees. Its basic orientation is applied research and development in the area of operation of NPP with VVER in relevant fields – nuclear safety, fuel cycle management including advanced cycles, operational diagnostics and inspections, preparation and support of NPP operation, start-up, requalification and decommissioning of nuclear facilities, ICT, RA waste management, SAM, PLIM, training of staff and other related activities. In recent years VUJE participated in the development and evaluation of advanced nuclear fuel cycles and technologies. Performed numerical analyses (project LWR-DEPUTY) confirmed significant potential of the reactors VVER-440 with inert matrix fuel to significantly reduce (3-times) the mass of Pu, produced as by-product of electricity generation without substantial reactor changes. Parameters characterising Pu generation were compared with performance of fast reactor at this field (SUPERPHENIX). Inclusion of fast reactors into the fleet of PWR (VVER) reactors was evaluated in the IAEA project GAINS (part of INPRO - IAEA activity). The main contribution of VUJE Inc. to ALLEGRO design preparation lies in the following fields: (1) Core - thermal hydraulic design, reactivity control, decay heat removal, (2) Containment, (3) I&C - structure, defence in depth, RPS, RLS, RCS, operational I&C, control room, TSC, (4) Power supply - off site, on site AC and DC, emergency, I&C, (5) Auxiliary systems - fuel handling, ventilation, fire protection and (6) Safety analysis.

SK Participant Project Cost: EUR 231 406

SK Participant EC Financial Contribution: EUR 151 450

Project Outcomes planned/real: The NERIS-TP project brought together nineteen organisations to address open topics which had been identified in the aftermath of the EURANOS project. NERIS-TP achieved results in the following areas: establishing and operating a European NERIS Platform on emergency and post-accident preparedness and management to further improve emergency response and recovery preparedness in Europe; developing a screening model to test the new ICRP-103 recommendations with respect to national implementation plans; improvement of the two late phase modes ERMIN (inhabited areas) and AgriCP (agricultural production) to better deal with requests from end users; connecting the emergency information system of the IAEA with the existing European Decision Support Systems (RODOS/ARGOS) by developing an appropriate interface and a meteorological model chain that provides meteorological data for assessments from freely available worldwide data; strengthening of the preparedness at the local/national level by setting up dedicated forums and developing new tools or adapting the tools developed within the EURANOS projects.

Slovak Participant's Role in Project: Member of consortium, leader of WP5, participating in improving the simulation models of ARGOS and RODOS with the new ICRP recommendations; setting-up national-local forum that will focus, on the one hand, on the need to improve governance structures and, on the other hand, on the need for new or refined tools for use at the local level; disseminating results, while remaining focused on the preparation, organization and realization of the first Topical Workshop titled 'Preparedness for nuclear and radiological emergency response and recovery: Implementation of ICRP recommendations,' which took place in Bratislava from 6 to 8 February 2012. An overall number of 88 participants from 51 different organisations from 26 countries attended the workshop.

NUCL-EU

Project ID: 232375

Project Title: Reinforcing the networking of FP7 National Contact Points and third country contacts in the Euratom Fission programme

Project website: <http://www.nucleu.net/>

Project Start Date: 2009-10-01

Project End Date: 2013-12-31

Project Total Cost: EUR 406 172.2

Project EC Financial Contribution: EUR 349 000

Slovak participant Name: VUJE, a.s.

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Partners of the Consortium: Coordinator:

AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA - ITALY

Participants: INSTYTUT PODSTAWOWYCH PROBLEMOW TECHNIKI POLSKIEJ

AKADEMII NAUK - POLAND

USTAV JADERNEHO VYZKUMU REZ A.S. - CZECHREPUBLIC

SLOVENIAN NUCLEAR SAFETY ADMINISTRATION - SLOVENIA

SOUTH AFRICAN NUCLEAR ENERGY CORPORATION LIMITED - SOUTH AFRICA

RESEARCH PROMOTION FOUNDATION - CYPRUS

VUJE, A.S. - SLOVAKIA

Project Description: NUCL-EU is a project funded by the European Commission under the Euratom Programme of the 7th Framework Programme. The general objective of the project is reinforcing the network of FP7 National Contact Points (NCPs) and third country contacts in the Euratom Programme. It aims at creating an efficient, pro-active and sustainable Network for stimulating closer cooperation among all the Euratom National Contact Points. The project has two specific objectives: the reinforcement of the Euratom NCP Network, and the enhancement of Member States' and Third Countries' participation.

Project Objectives: Project NUCL-EU is a 3-year project and has the overall objective of creating an efficient, pro-active and sustainable network for stimulating closer cooperation among all the National Contact Points and Third Countries contacts for the Euratom Programme. NUCL-EU has two clear specific objectives: the reinforcement of the Euratom NCP network and the enhancement of Third Countries participation. Principal activities include best practice benchmarking with Euratom NCPs, followed by tailor-made training sessions and twinning schemes for new and less experienced NCPs. Third Countries contacts will be encouraged to participate in all NUCL-EU activities. Participation of research organisations especially from Third Countries in Euratom will be boosted through a large Brokerage Event. The expected impacts of NUCL-EU will be 1) a strong and uniform Euratom NCP network, involving sound communication with Third Countries, and 2) a more effective participation of Third Countries to the Euratom programme. Moreover, best practices of this network will be made publicly available as a handbook for NCPs in other FP7 themes. The coordinator (APRE) will invite all Euratom NCPs, including those outside the consortium, to participate in project activities. At present, the only Third Country NCP member of the project consortium is South Africa.

Profile of Slovak Participant/ -s: VUJE Inc. is a company with a tradition of over 30 years in nuclear energy. At present, it has over 800 employees. Its basic orientation is applied research and development in the area of operation of NPP with VVER in relevant fields – nuclear safety, fuel cycle management including advanced cycles, operational diagnostics and inspections, preparation and support of NPP operation, start-up, requalification and decommissioning of nuclear facilities, ICT, RA waste management, SAM, PLIM, training of staff and other related activities. In recent years VUJE participated in the development and evaluation of advanced nuclear fuel cycles and technologies. The numerical analyses performed (project LWR-DEPUTY) confirmed significant potential of the reactors VVER-440 with inert matrix fuel to significantly reduce (3-times) the mass of Pu, produced as by-product of electricity generation without substantial reactor changes. Parameters characterising Pu generation were compared with performance of fast reactor at this field (SUPERPHENIX). Inclusion of fast reactors into the fleet of PWR (VVER) reactors was evaluated in the IAEA project GAINS (part of INPRO - IAEA activity). The main contribution of VUJE Inc. to ALLEGRO design preparation lies in the following fields: (1) Core - thermal hydraulic design, reactivity control, decay heat removal, (2) Containment, (3) I&C - structure, defence in depth, RPS, RLS, RCS, operational I&C, control room, TSC, (4) Power supply - off site, on site AC and DC, emergency, I&C, (5) Auxiliary systems - fuel handling, ventilation, fire protection and (6) Safety analysis.

SK Participant Project Cost: EUR 57 143

SK Participant EC Financial Contribution: EUR 43 302

Project Outcomes planned/real: The general objective of the project is reinforcing the network of FP7 National Contact Points (NCPs) and third country contacts in the Euratom Programme. It aims at creating an efficient, pro-active and sustainable Network for stimulating closer cooperation among all the Euratom National Contact Points.

Slovak Participant's Role in Project: VUJE as a participant of the project participated in project workshops, provided information on the activities of institutions from Slovakia involved in nuclear fission and actively contributed to setting up the Network of National contact points and to improving the quality of NCP support services across Europe in the field of nuclear fission and radiation protection. Therefore, not only will the NCPs benefit from the positive effects of the project, but also the research community will benefit from a higher level of services and information that will enhance the quality of proposals.

ORAMED

Project ID: 249684

Project Title: Optimization of Radiation Protection of Medical Staff

Project website: <http://www.oramed-fp7.eu/>

Project Start Date: 2008-02-01

Project End Date: 2011-01-31

Project Total Cost: EUR 2 445 285

Project EC Financial Contribution: EUR 1 839 999

Slovak participant Name: SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE,
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ENTE PER LE NUOVE TECNOLOGIE, L'ENERGIA E L'AMBIENTE - ITALY

COMMISSARIAT A L'ENERGIE ATOMIQUE (CEA) - FRANCE

UNIVERSITAT POLITÈCNICA DE CATALUNYA - SPAIN

BUNDESAMT FUER STRAHLENSCHUTZ - GERMANY

HOSPICES CANTONAUX CHUV - SWITZERLAND

MGP INSTRUMENTS SA - FRANCE

GREEK ATOMIC ENERGY COMMISSION - GREECE

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PAWEL OLKO ELZBIETA RYBA - POLAND

INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE - FRANCE

SLOVENSKA ZDRAVOTNICKA UNIVERZITA V BRATISLAVE, SLOVAK MEDICAL UNIVERSITY- SLOVAKIA

Project Description: ORAMED, Optimization of Radiation protection for MEDical staff is a collaborative project funded in 2008 within the 7th EU Framework Programme, Euratom Programme for Nuclear Research and training.

Project Objectives: The first objective is to obtain extensive extremity dose data for staff in IR, with special attention to eye lens doses and the analysis of the radiation protection measures. At the present time there is no suitable dosimeter for eye lens dosimetry. Hp(3) is mentioned as the operational quantity to control the dose limits, but there are no conversion coefficients nor a calibration procedure available. The second objective of the project is to develop a formalism to measure eye lens doses and to design a prototype eye lens dosimeter.

IR staff belongs to a specific working group which could benefit from a real time accurate dose assessment. Therefore, the third objective is to study the behaviour of commercial active personal dosimeters under real conditions and to design a prototype that could solve the present problems. In NM the doses to the different parts of the hands will be systematically mapped, with special attention to unsealed therapy sources, aiming to estimate the real dose load of NM workers and to describe appropriate protection measures. The different objectives of this project will be achieved through well coordinated measurement campaigns in European hospitals. Simulations will be performed to determine the main parameters that influence the extremity and eye lens doses and the effectiveness of different radiation protection measures. The final objective is to develop a program to disseminate all conclusions and recommendations to the interested parties.

Profile of Slovak Participant/ -s: The Slovak Medical University has become a unique higher education institution within the framework of Slovak Universities by adopting the requirements of the European Union for university level education in regulated professions, including general medicine, nursing, public health, health care management, rehabilitation and related health care subjects, and by providing post-secondary professional education in a whole variety of medical specializations. in the following areas of science and research:

a) Environmental health, which includes the research of the impacts of chemical, physical, biological and social factors on individual health and population health. Several departments with many years of experience are focused on these issues, also included in several international projects. Nowadays, the Environmental Health Center of Excellence (an ASFEU project) is built at the SZU, this covers several departments of the University faculties. This Center of Excellence provides, apart from personnel conditions, an excellent infrastructure. Moreover, other excellent departments were completed within the Norwegian Financial Mechanism (such as the Experimental menagerie or the Center of Medic. Metallomics) and these considerably increase the attractiveness and the possibilities of involvement in top international (7 RPEU), basic as well as applied, research.

The most important issues in these areas are:

- Microbiology, mycology, virology – especially enteric viruses and viral hepatitis, AIDS, slow virus infections, resp. prion diseases, fungi.
- Radiation burden
- Chemical pollution (metals, PCBs, dioxins)
- Nutrition, focused on positive and negative impacts of selected foods, dietary supplements and different types of nutrition of different subgroups of the population (patients, vegetarians, athletes and others).

b) Clinical research focused on:

- degenerative diseases and aging – associated diseases such as atherosclerosis, osteoporosis and others, centered on genetic and environmental factors of the establishment and development of these (diabetes, hypertension, obesity, smoking, physical inactivity, etc.) and the possibilities how to influence them (non-pharmacological methods, new drug therapy, stem cell treatments, alternative therapeutic approaches),
- transplantation of tissue, organs, cells, focusing on:
 - research of the causes of their rejection,
 - new therapeutic approaches in the stem cell treatments (especially the treatment of diseases of the vascular system) transmissible diseases, centered on the research of the pathogenesis and the possibilities of prevention and cure (AIDS, prion diseases, enteroviral infections, hepatitis, Chlamydia infection and others).
- diseases associated with reproduction, motherhood and childhood use of information technologies in the simulation/ modeling of major diseases in various fields of medicine, especially internal medicine, cardiology, neurology and surgery.

c) Health and medical aspects of research and development of nano – particles, particularly in terms of toxicity and safety.

- d) Development of prognostic models suitable for assessing population health impacts of planned political, economic, social and other interventions – prognostication.
- e) Research related to the use of a linear accelerator, especially in the application of scientific results into practice (applied research).
- f) Others, according to the current demands of the society, the possibilities and capacities available at SZU in Bratislava. The evidence of a successful international cooperation in scientific research is the involvement of several departments of SZU in current projects (7th RPEU, ERINHA, SYSTEQ, OBELIX, DENAMIC, NANOTEST, NANOIMPACT, Q-NANO, PRIORITY) as well as the activities of SZU in Bratislava as a founding member of the international scientific consortium „Regional Cooperation for Health, Science and Technology Association“.

SK Participant Project Cost: EUR 61 472

SK Participant EC Financial Contribution: EUR 46 712

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

PLATENSO

Project ID: 605140

Project Title: Building a platform for enhanced societal research related to nuclear energy in Central and Eastern Europe

Project website: <http://platensoproject.eu/>

Project Start Date: 2013-09-01

Project End Date: 2016-08-31

Project Total Cost: EUR 1 224 778

Project EC Financial Contribution: EUR 999 760.4

SLOVAK PARTICIPANT 1

Slovak participant Name: USTAV VYSKUMU SOCIALNEJ KOMUNIKACIE SLOVENSKEJ AKADEMIE VIED, Institute for Research in Social Communication Slovak Academy of Sciences

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SLOVAK PARTICIPANT 2

Slovak participant Name: UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, Matej Bel University in Banská Bystrica

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PUBLIC RESEARCH INSTITUTION - CZECH REPUBLIC
LIETUVOS ENERGETIKOS INSTITUTAS - LITHUANIA
REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE - REC - HUNGARY
GALSON SCIENCES LIMITED - UNITED KINGDOM
UJV REZ, A.S. - CZECH REPUBLIC
MARTELL LAMOLLA MERITXELL - SPAIN
UNIWERSYTET MIKOLAJA KOPERNIKA W TORUNIU - POLAND
ENERGIACLUB SZAKPOLITIKAI INTEZET MODSZERTANI KOZPONT EGYESULET - HUNGARY
CENTER FOR THE STUDY OF DEMOCRACY - BULGARIA
COLLEGIUM CIVITAS - POLAND
STUDIECENTRUM VOOR KERNENERGIE - BELGIUM
INSTYTUT CHEMII I TECHNIKI JADROWEJ - POLAND
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UNIVERSITATEA DIN BUCURESTI - ROMANIA

USTAV VYSKUMU SOCIALNEJ KOMUNIKACIE SLOVENSKEJ AKADEMIE VIED, INSTITUTE FOR RESEARCH IN SOCIAL COMMUNICATION SLOVAK ACADEMY OF SCIENCES- SLOVAKIA

UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, MATEJ BEL UNIVERSITY IN BANSKA BYSTRICA (MBU) - SLOVAKIA

Project Description: PLATENSO, a project funded by the Seventh EURATOM Research and Training Programme (FP7) on Nuclear Energy of the European Commission, aims 1) to provide a proposal for a European Platform for Socio-Economic matters linked to nuclear technology, and 2) to develop recommendations for Research Strategies in EU New Member States (NMS).

Project Objectives: The objective of PLATENSO is to draft a proposal towards establishing a legal base for a European Entity on Socio-Economic matters linked to nuclear technology and to develop recommendations for research strategies in PLATENSO countries. Thereby the capabilities of research institutes in Central and Eastern European countries regarding their participation in EU research with respect to governance, social and societal aspects is enhanced.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: Institute for Research in Social Communication (KVS BK SAV) is a part of Slovak Academy of Sciences. During the period 2007-2010 the Institute directed the Centre of Excellence on Citizenship and Participation with a wide team of experts from the fields of sociology, political science, psychology and other disciplines, from several Universities, think-tanks and NGOs in Slovakia. The Institute has broad experience in participation in international research projects, starting from FP5 participation, projects with/for WHO (Geneva), International organization for Migration etc. The main areas of its research cover health, literacy, democracy/participation/deliberation, social norms and methodology.

SK Participant Project Cost: EUR 34 600

SK Participant EC Financial Contribution: EUR 31 285

Project Outcomes planned/real: MBU and KVS BK SAV are responsible for providing national level activities and inputs to all the relevant activities (Deliverables) planned in the work packages (WP) 1, 2, 4, 5, 6 and 7. As of June 2014, results of the work of both MBU and KVS BK SAV were provided only to relevant project partners (Work package leaders), i.e. they have not been published yet - the publication of results is planned to take place within the period from late 2014 to August 2016.

Slovak Participant's Role in Project: MBU and KVS BK SAV are responsible for national level activities in Slovakia. MBU is involved in the work packages (WP) 1 "Lessons learned", WP 4 "Forming a research strategy", WP 5 "Testing of research strategies and their implementation", WP 6 "Establishing a European Entity on Socio-Economic matters linked to nuclear technology" and WP 7 "Dissemination." KVS BK SAV is involved in WP 2 "Research infrastructures" and in WPs 4, 5 and 6.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: Univerzita Mateja Bela v Banskej Bystrici (Matej Bel University in Banská Bystrica, UMB) was established in 1992 as a public university. It consists of six faculties with almost 600 academic employees who are qualified for research activities (i.e. PhD degree or higher) and approximately 10 500 students. Cooperating with more than 30 Universities world-wide, MBU implements the EU objectives in development of the international relations in accordance with the Bologna Declaration.

SK Participant Project Cost: EUR 23 680.8

SK Participant EC Financial Contribution: EUR 21 115.38

Project Outcomes planned/real: MBU and KVS BK SAV are responsible for providing national level activities and inputs to all the relevant activities (Deliverables) planned in the work packages (WP) 1, 2, 4, 5, 6 and 7. As of June 2014, results of the work of both MBU and KVS BK SAV were provided only to relevant project partners (Work package leaders), i.e. they have not been published yet - the publication of results is planned to take place within the period from late 2014 to August 2016.



Slovak Participant's Role in Project: MBU and KVS BK SAV are responsible for national level activities in Slovakia. MBU is involved in work packages (WP) 1 "Lessons learned", WP 4 "Forming a research strategy", WP 5 "Testing of research strategies and their implementation", WP 6 "Establishing a European Entity on Socio-Economic matters linked to nuclear technology" and WP 7 "Dissemination". KVS BK SAV is involved in WP 2 "Research infrastructures" and in WPs 4, 5 and 6.

PREPARE

Project ID: 323287

Project Title: PREPARE: Innovative integrative tools and platforms to be prepared for radiological emergencies and post-accident response in Europe

Project website: <http://www.prepare-eu.org/>

Project Start Date: 2013-02-01

Project End Date: 2016-01-31

Project Total Cost: EUR 6 402 233.64

Project EC Financial Contribution: EUR 4 000 000

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Partners of the Consortium:

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 NUCLEAR RESEARCH AND CONSULTANCY GROUP - NETHERLANDS
 INSTITUT JOZEF STEFAN - SLOVENIA
 NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS" - GREECE
 DANMARKS TEKNISKE UNIVERSITET - DENMARK
 UNIVERSITA DEGLI STUDI DI MILANO - ITALY
 UNIVERZA V LJUBLJANI - SLOVENIA
 UNIVERSIDAD POLITECNICA DE MADRID - SPAIN
 KONINKLIJK NEDERLANDS METEOROLOGISCH INSTITUUT (KNMI) - NETHERLANDS
 BEREDSKABSSTYRELSEN - DENMARK
 BUNDESAMT FUER STRAHLENSCHUTZ - GERMANY
 HEALTH PROTECTION AGENCY HPA - UNITED KINGDOM
 AUTORITE DE SURETE NUCLEAIRE - FRANCE
 SATEILYTURVAKESKUS - SUOMI/FINLAND
 RADIOLOGICAL PROTECTION INSTITUTE OF IRELAND - ÉIRE/IRELAND
 AGENCIA PORTUGUESA DO AMBIENTE - PORTUGAL
 UKRAINIAN CENTER OF ENVIRONMENTAL AND WATER PROJECTS OF ACADEMY OF TECHNOLOGICAL SCIENCES OF UKRAINE LLC - UKRAINE
 ASSOCIATION POUR LE CONTROLE DE LA RADIOACTIVITE DANS L'OUEST - FRANCE
 STATE SCIENTIFIC AND TECHNICAL CENTRE ON NUCLEAR AND RADIATION SAFETY - UKRAINE
 PAPUSH LIANA - SWEDEN
 SLOVENIAN NUCLEAR SAFETY ADMINISTRATION - SLOVENIA
 COOPANAME - FRANCE
 STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK - NETHERLANDS
 RIJKSINSTITUUT VOOR VOLKSGEZONDHEIDEN MILIEU* NATIONAL INSTITUTE FOR PUBLIC HEALTH AND THE ENVIRONMENTEN - NETHERLANDS
 GREEK ATOMIC ENERGY COMMISSION - GREECE
 MUTADIS CONSULTANTS SARL - FRANCE
 INSTITUTUL NATIONAL DE CERCETARE -DEZVOLTARE PENTRU FIZICA SI INGINERIE NUCLEARA "HORIA HULUBEI" (IFIN-HH) - ROMANIA
 STUDIECENTRUM VOOR KERNENERGIE - BELGIUM
 KWR WATER B.V. - NETHERLANDS
 Eidgenössisches Departement des Innern - SWITZERLAND
 CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT - SPAIN
 UNIVERSITETET FOR MILJO OG BIOVITENSKAP - NORWAY
 TN INTERNATIONAL - FRANCE
 UNIVERSIDAD DE SEVILLA - SPAIN
 NORWEGIAN RADIATION PROTECTION AUTHORITY - NORWAY

PANEPISTIMIO DYTIKIS MAKEDONIAS (UNIVERSITY OF WESTERN MACEDONIA) - GREECE
 PROLOG DEVELOPMENT CENTER A/S - DENMARK
 UNIVERSITAET WIEN - AUSTRIA
 CENTRE D'ETUDE SUR L'EVALUATION DE LA PROTECTION DANS LE DOMAINE NUCLEAIRE - FRANCE
 PDC-ARGOS APS - DENMARK
 HEALTH AND SAFETY EXECUTIVE - UNITED KINGDOM
 ASSOCIACAO DO INSTITUTO SUPERIOR TECNICO PARA A INVESTIGACAO E DESENVOLVIMENTO - PORTUGAL
 FEDERAL AGENCY FOR NUCLEAR CONTROL - BELGIUM
 INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE - FRANCE
 AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE - ITALY
 VUJE, A.S. - SLOVAKIA

Project Description: This project intends to carry out activities such as evaluation of operational procedures, food safety criteria, atmospheric dispersion and deposition, aquatic modelling, source term estimation, communication with the public and information collection, and scientific evaluation of a present nuclear or radiological disaster. The tools developed within the project will be partly integrated into the two decision support systems ARGOS and RODOS. Further methods and tools will be made available for scientific or operational institutions to complement decision support systems.

Project Objectives: This proposal aims to close gaps that have been identified in nuclear and radiological preparedness following the first evaluation of the Fukushima disaster. It addresses the call Fission-2010-3.3.1: Update of emergency management and rehabilitation strategies and expertise in Europe. The consortium intends to review existing operational procedures in dealing with long-lasting releases, address the cross-border issues in monitoring and safety of goods and will further develop missing functionalities in decision support systems ranging from improved source term estimation and dispersion modelling to the inclusion of hydrological pathways for European water bodies. As the management of the Fukushima event in Europe was far from being optimal, we propose to develop means on a scientific and operational basis to improve information collection, information exchange and the evaluation of these types of accidents. This will be achieved through a collaboration of industry, research and governmental organisations in Europe taking into account the networking activities carried out under the NERIS-TP project. Furthermore, the NERIS Platform member organisations (43 partners so far) will be actively involved in the development.

Profile of Slovak Participant/ -s: VUJE Inc. is a company with a tradition of over 30 years in nuclear energy. At present, it has over 800 employees. Its basic orientation is applied research and development in the area of operation of NPP with VVER in relevant fields – nuclear safety, fuel cycle management including advanced cycles, operational diagnostics and inspections, preparation and support of NPP operation, start-up, requalification and decommissioning of nuclear facilities, ICT, RA waste management, SAM, PLIM, training of staff and other related activities. In recent years VUJE participated in the development and evaluation of advanced nuclear fuel cycles and technologies. Performed numerical analyses (project LWR-DEPUTY) confirmed significant potential of the reactors VVER-440 with inert matrix fuel to significantly reduce (3-times) the mass of Pu, produced as by-product of electricity generation without substantial reactor changes. Parameters characterising Pu generation were compared with performance of fast reactor at this field (SUPERPHENIX). Inclusion of fast reactors into the fleet of PWR (VVER) reactors was evaluated in the IAEA project GAINS (part of INPRO - IAEA activity). The main contribution of VUJE Inc. to ALLEGRO design preparation lies in the following fields: (1) Core - thermal hydraulic design, reactivity control, decay heat removal, (2) Containment, (3) I&C - structure, defence in depth, RPS, RLS, RCS, operational I&C, control room, TSC, (4) Power supply - off site, on site AC and DC, emergency, I&C, (5) Auxiliary systems - fuel handling, ventilation, fire protection and (6) Safety analysis.

SK Participant Project Cost: EUR 401 436

SK Participant EC Financial Contribution: EU 250 718

Project Outcomes planned/real: This project aims to close gaps that have been identified in nuclear and radiological preparedness following the first evaluation of the Fukushima disaster. It addresses the call Fission-2010-3.3.1: Update of emergency management and rehabilitation strategies and expertise in Europe. The consortium intends to review existing operational procedures in dealing with long-lasting releases, address the cross-border issues in monitoring and safety of goods and will further develop missing functionalities in decision support systems ranging from improved source term estimation and dispersion modelling to the inclusion of hydrological pathways for European water bodies. As the management of the Fukushima event in Europe was far from being optimal, we propose to develop means on a scientific and operational basis to improve information collection, information exchange and the evaluation of these types of accidents. This will be achieved through a collaboration of industry, research and governmental organisations in Europe taking into account the networking activities carried out under the NERIS-TP project. Furthermore, the NERIS Platform member organisations (43 partners so far) will be actively involved in the development.

Slovak Participant's Role in Project: The contribution of VUJE, a. s. to the project will consist in reviewing existing operational procedures in dealing with long-lasting releases, address the cross-border issues in monitoring and safety of goods and will help to further develop missing functionalities in decision support system ranging from improved source term estimation and dispersion modelling to the inclusion of hydrological pathways for European water bodies.

SARGEN_IV

Project ID: 295446

Project Title: Safety Assessment for Reactors of Gen IV

Project website: <http://www.sargen-iv.eu/>

Project Start Date: 2012-01-01

Project End Date: 2013-12-31

Project Total Cost: EUR 1 293 111.75

Project EC Financial Contribution: EUR 999 128

Slovak participant Name: VUJE, a.s.

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Partners of the Consortium:

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RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN - GERMANY

UNIVERSIDAD POLITECNICA DE MADRID - SPAIN

THE UNIVERSITY OF MANCHESTER - UNITED KINGDOM

ELECTRICITE DE FRANCE S.A. - FRANCE

AREVA NP SAS - FRANCE

KARLSRUHER INSTITUT FUER TECHNOLOGIE - GERMANY

PAUL SCHERRER INSTITUT - SWITZERLAND

USTAV JADERNEHO VYZKUMU REZ A.S. - CZECH REPUBLIC

LIETUVOS ENERGETIKOS INSTITUTAS - LITHUANIA

AMEC NUCLEAR UK LIMITED - UNITED KINGDOM

TEKNOLOGIAN TUTKIMUSKESKUS VTT - SUOMI/FINLAND

STUDIECENTRUM VOOR KERNENERGIE - BELGIUM

GESELLSCHAFT FUER ANLAGEN- UND REAKTORSICHERHEIT (GRS) MBH - GERMANY

BEL V - BELGIUM

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE

ANSALDO NUCLEARE SPA - ITALY

HELMHOLTZ-ZENTRUM DRESDEN-ROSENDOERF EV - GERMANY

JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM

MAGYAR TUDOMANYS AKADEMIA KFKI ATOMENERGIA KUTATOINTEZET - HUNGARY

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO

ECONOMICO SOSTENIBILE – ITALY

VUJE, A.S. - SLOVAKIA

Project Description: SARGEN IV is a European Commission funded project that aims to devise a future assessment of advanced nuclear reactors (GEN-IV) that could be built in Europe in the future. The types of reactors covered are:

- Sodium cooled Fast Reactors (SFR);
 - Gas cooled Fast Reactor (GFR);
 - Lead cooled Fast Reactor (LFR);
 - The irradiation fast-spectrum facility able to test both Accelerator Driven Systems (ADS) and LFR Technologies.
- The project draws upon a wide range of expertise on safety aspects in the development of generation IV nuclear reactors from technical safety organisations, the JRC, designers and vendors, research institutes and universities from across 10 different countries.

Project Objectives: The European Sustainable Nuclear Industrial Initiative was launched in November 2010 in order to anticipate the development of a fleet of fast reactors with closed cycle. Three fast neutron technologies have been selected:

- the Sodium-cooled Fast Reactor with the ASTRID prototype,
- the Lead-cooled Fast Reactor with the ALFRED demonstrator which will be preceded by a pilot plan MYRRHA,
- the Gas-cooled Fast Reactor with the ALLEGRO demonstrator.

With the objective of future assessment of these advanced reactor concepts, the SARGEN_IV Project is intended to gather safety experts from recognized European technical safety organizations, designers and vendors as well as experts from research institutes and universities to:

- develop and provide a tentative commonly agreed methodology for the safety assessment,
- identify open issues in the safety area, mainly addressing and focusing on assessment-relevant ones,
- detect and underline new fields for R&D in the safety area,
- provide a roadmap and preliminary deployment plan for safety-related R&D, including cost estimation.

First, the proposed methodology requires an identification and ranking of the main safety issues related to these reactors which needs a strong collaboration with other European projects as CP-ESFR, GoFastR, LEADER and CDT.

Second, a review of safety methodologies proposed by international organizations and those issued from national practices and European consortia in order to define the jointly accepted tentative methodology, which will thus be applied to specific safety issues relevant to selected reactors. The project beneficiaries are convinced that fostering harmonization of the various European safety approaches will be immensely beneficial and will streamline the EURATOM contribution to Generation IV International Forum in the safety field. It will also improve relations between safety assessment and efficiency of research programmes in developing new concepts.

Profile of Slovak Participant/ -s: VUJE Inc. is a company with a tradition of over 30 years in nuclear energy. At present, it has over 800 employees. Its basic orientation is applied research and development in the area of operation of NPP with VVER in relevant fields – nuclear safety, fuel cycle management including advanced cycles, operational diagnostics and inspections, preparation and support of NPP operation, start-up, requalification and decommissioning of nuclear facilities, ICT, RA waste management, SAM, PLIM, training of staff and other related activities. In recent years VUJE participated in the development and evaluation of advanced nuclear fuel cycles and technologies. Performed numerical analyses (project LWR-DEPUTY) confirmed significant potential of the reactors VVER-440 with inert matrix fuel to significantly reduce (3-times) the mass of Pu, produced as by-product of electricity generation without substantial reactor changes. Parameters characterising Pu generation were compared with performance of fast reactor at this field (SUPERPHENIX). Inclusion of fast reactors into the fleet of PWR (VVER) reactors was evaluated in the IAEA project GAINS (part of INPRO - IAEA activity). The main contribution of VUJE Inc. to ALLEGRO design preparation lies in the following fields: (1) Core - thermal hydraulic design, reactivity control, decay heat removal, (2) Containment, (3) I&C - structure, defence in depth, RPS, RLS, RCS, operational I&C, control room, TSC, (4) Power supply - off site, on site AC and DC, emergency, I&C, (5) Auxiliary systems - fuel handling, ventilation, fire protection and (6) Safety analysis.

SK Participant Project Cost: EUR 12 631

SK Participant EC Financial Contribution: EUR 10 649

Project Outcomes planned/real: The deployment of sustainable nuclear technology is likely to play a key role in future energy policy considering the objectives formulated by the European Commission to transform the current energy system based on fossil fuels into a more sustainable one based on a mix of low-carbon energy sources. This project aims to prepare the future assessment of advanced nuclear reactors (GEN-IV) that could be built in Europe in the future

Slovak Participant's Role in Project: Member of consortium providing input information issued by the support and based on current projects as GoFastR. The ALLEGRO project will be used as a model. Furthermore, VUJE Inc. will participate in the selection of a representative set of initiating events relevant to the identified safety issues in Generation IV fast reactors, especially GFR demonstrator ALLEGRO.

SARNET2

Project ID: 231747

Project Title: Severe accident research network of excellence 2

Project website: <http://www.irsn.fr/FR/Pages/Home.aspx>

Project Start Date: 2009-01-04

Project End Date: 2013-03-31

Project Total Cost: EUR 39 588 707

Project EC Financial Contribution: EUR 5 750 000

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SLOVAK PARTICIPANT 2

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SLOVAK PARTICIPANT 3

Slovak participant Name: URAD JADROVEHO DOZORU SLOVENSKEJ REPUBLIKY, Nuclear Regulatory Authority of the Slovak Republic

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Partners of the Consortium: Coordinator:

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PARTICIPANTS: NUCLEAR RESEARCH AND CONSULTANCY GROUP - NETHERLANDS
INSTITUT JOZEF STEFAN - SLOVENIA
CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT - SPAIN
VALTION TEKNILLINEN TUTKIMUSKESKUS - SUOMI/FINLAND
ENTE PER LE NUOVE TECNOLOGIE, L'ENERGIA E L'AMBIENTE - ITALY
KUNGLIGA TEKNISKA HOEGSKOLAN - SWEDEN
UNIVERSITAET STUTTGART - GERMANY
BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM - HUNGARY
UNIVERSITA DI PISA - ITALY
CHALMERS TEKNISKA HOEGSKOLA AB - SWEDEN
UNIVERSITY OF NEWCASTLE UPON TYNE - UNITED KINGDOM
RUHR-UNIVERSITAET BOCHUM - GERMANY
ELECTRICITE DE FRANCE S.A. - FRANCE
VEIKI INSTITUTE FOR ELECTRIC POWER RESEARCH - HUNGARY
FORSCHUNGSZENTRUM JUELICH GMBH - GERMANY
KARLSRUHER INSTITUT FUER TECHNOLOGIE - GERMANY
DEPARTMENT OF ATOMIC ENERGY - INDIA
NATIONAL NUCLEAR LABORATORY LIMITED - UNITED KINGDOM
PAUL SCHERRER INSTITUT - SWITZERLAND
USTAV JADERNEHO VYZKUMU REZ A.S. - CZECH REPUBLIC
LIETUVOS ENERGETIKOS INSTITUTAS - LITHUANIA
ENERGY INSTITUTE JSC - BULGARIA
KOREA ATOMIC ENERGY RESEARCH INSTITUTE - REPUBLIC OF KOREA
COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES - FRANCE
U.S. NUCLEAR REGULATORY COMMISSION - UNITED STATES
COMMISSION OF THE EUROPEAN COMMUNITIES - DIRECTORATE GENERAL JOINT

RESEARCH CENTRE - JRC - BELGIUM
TECHNICAL UNIVERSITY OF SOFIA - BULGARIA
TRACTEBEL ENGINEERING S.A. - BELGIUM
RICERCA SUL SISTEMA ENERGETICO - RSE SPA - ITALY
SUEZ-TRACTEBEL SA - BELGIUM
AREVA NP SAS - FRANCE
AREVA NP GMBH - GERMANY
GESELLSCHAFT FUER ANLAGEN- UND REAKTORSICHERHEIT (GRS) MBH - GERMANY
ATOMIC ENERGY OF CANADA LIMITED - CANADA
NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS" - GREECE
KOREA INSTITUTE OF NUCLEAR SAFETY - REPUBLIC OF KOREA
THERMODATA - FRANCE
INSTITUTE OF NUCLEAR RESEARCH AND NUCLEAR ENERGY - BULGARIAN ACADEMY OF SCIENCES - BULGARIA
NUBIKI NUCLEAR SAFETY RESEARCH INSTITUTE LTD. - HUNGARY
MAGYAR TUDOMANYOS AKADEMIA KFKI ATOMENERGIA KUTATOINTEZET - HUNGARY
REGIA AUTONOMA PENTRU ACTIVITATI NUCLEARE DROBETA TR. SEVERIN RA
SUCURSALA CERCETARI NUCLEARE PITESTI - ROMANIA

VUJE, A.S. – SLOVAKIA

INZINIERSKA VYPOCTOVA SPOLOCNOST TRNAVA S.R.O., COMPANY FOR ENGINEERING CALCULATIONS TRNAVA, LTD- SLOVAKIA

URAD JADROVEHO DOZORU SLOVENSKEJ REPUBLIKY, NUCLEAR REGULATORY AUTHORITY OF THE SLOVAK REPUBLIC - SLOVAKIA

Project Description: The SARNET2 (severe accidents Research NETwork of Excellence) project started in April 2009 and shall continue within the 7th Framework Programme (FP7) of the European Commission (EC) for 4 years, following a similar first project in FP6. Forty-seven organisations from 24 countries network their capacities of research in the severe accident (SA) field inside SARNET to resolve the most important remaining uncertainties and safety issues on SA in water-cooled nuclear power plants (NPPs). The network includes a large majority of European actors involved in SA research plus several non-European relevant ones. The "Education and Training" programme in SARNET is a series of actions designed in this network for the "spreading of excellence." It is focused on raising the competence level of Master and Ph.D. programme students and young researchers engaged in SA research, and on organizing information/training courses for NPP staff or regulatory authorities (as well as for researchers) interested in SA management procedures.

Project Objectives: In SARNET2 (Severe Accident Research NETwork of Excellence - Phase 2) most of the actors involved in severe accident research in Europe, Canada, Korea and the United States (41 partners) will network their capacities of research in order to resolve important pending issues on postulated severe accidents of existing and future Nuclear Power Plants (NPPs).

The project has been defined in order to optimize the use of available means, and to constitute a sustainable consortium in which common research programmes and a common computer tool to predict NPP behaviour during a postulated severe accident (ASTEC integral code) are developed. With this aim, the SARNET2 partners contribute to a Joint

Programme of Activities, which consists of:

- maintaining and improving an advanced communication tool (developed during SARNET Phase 1) for accessing all project information, fostering exchange of information, and managing documents;
 - harmonizing and re-orienting the research programmes, and defining new ones;
 - performing experimental programmes on high-priority issues, defined during SARNET Phase 1;
 - analysing experimental results in order to elaborate a common understanding of relevant phenomena;
 - developing the ASTEC code (including its applicability to all types of European NPPs), which capitalizes the knowledge produced within SARNET2 in terms of physical models;
 - developing Scientific Databases in which all the results of research programmes are stored in a common format (DATANET);
 - developing education courses on severe accidents for students and researchers, and training courses for specialists;
 - promoting personnel mobility amongst various European organizations;
 - organizing an annual international conference on Severe Accident research (ERMSAR).
- After the first phase (2004-2008) and the four-year proposed second phase, co-funded by the EC, the network will evolve toward self-sustainability: a legal entity will be created.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: VUJE Inc. is a company with a tradition of over 30 years in nuclear energy. At present, it has over 800 employees. Its basic orientation is applied research and development in the area of operation of NPP with VVER in relevant fields – nuclear safety, fuel cycle management including advanced cycles, operational diagnostics and inspections, preparation and support of NPP operation, start-up, requalification and decommissioning of nuclear facilities, ICT, RA waste management, SAM, PLIM, training of staff and other related activities. In recent years VUJE participated in the development and evaluation of advanced nuclear fuel cycles and technologies. Performed numerical analyses (project LWR-DEPUTY) confirmed significant potential of the reactors VVER-440 with inert matrix fuel to significantly reduce (3-times) the mass of Pu, produced as by-product of electricity generation without substantial reactor changes. Parameters characterising Pu generation were compared with performance of fast reactor at this field (SUPERPHENIX). Inclusion of fast reactors into the fleet of PWR (VVER) reactors was evaluated in the IAEA project GAINS (part of INPRO - IAEA activity). The main contribution of VUJE Inc. to ALLEGRO design preparation lies in the following fields: (1) Core - thermal hydraulic design, reactivity control, decay heat removal, (2) Containment, (3) I&C - structure, defence in depth, RPS, RLS, RCS, operational I&C, control room, TSC, (4) Power supply - off site, on site AC and DC, emergency, I&C, (5) Auxiliary systems - fuel handling, ventilation, fire protection and (6) Safety analysis.

SK Participant Project Cost: EUR 117 000

SK Participant EC Financial Contribution: EUR 26 521

Project Outcomes planned/real: The project has been defined in order to optimize the use of available means and to constitute a sustainable consortium in which common research programmes and a common computer tool to predict NPP behaviour during a postulated severe accident (ASTEC integral code) are developed.

Slovak Participant's Role in Project: VUJE, a. s. has contributed to the project by performing the following tasks:

- integral calculation with ASTEC V2.0-revx of the Phébus FPT3 experiment,
- recalculation with ASTEC V2.0-revx of a complete SBO scenario applied to a VVER-440 and comparison with results obtained using former code versions,
- recalculation with ASTEC V2.0-revx of a complete LOCA 100 mm scenario applied to a VVER-440 and comparison with results obtained using former code versions,
- follow-up of the development of an ASTEC containment model for VVER-440, along with benchmarking calculations.

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 142 200

SK Participant EC Financial Contribution: EUR 50 303

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 3

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 209 040

SK Participant EC Financial Contribution: EUR 22 000

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SITEX

Project ID: 295889

Project Title: Sustainable network of Independent Technical EXpertise for radioactive waste disposal

Project website: <http://www.sitexproject.eu/>

Project Start Date: 2012-01-01

Project End Date: 2013-12-31

Project Total Cost: EUR 1 363 512.8

Project EC Financial Contribution: EUR 950 080

Slovak participant Name: DECOM A.S.

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 STRALSAKERHETSMYNDIGHETEN - SWEDEN
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 BEL V - BELGIUM
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 LIETUVOS ENERGETIKOS INSTITUTAS - LITHUANIA
 MUTADIS CONSULTANTS SARL - FRANCE
 MINISTERE DE L'ECOLOGIE, DU DEVELOPPEMENT DURABLE DES - TRANSPORTS ET DU LOGEMENT - FRANCE
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 MINISTERIE VAN ECONOMISCHE ZAKEN, LANDBOUW EN INNOVATIE – NETHERLANDS
 DECOM A.S. - SLOVAKIA

Project Description: SITEX aims at identifying efficient means that should be developed through the establishment of a sustainable expertise function network within a European framework with the view to:

- allowing mutual understanding between regulatory bodies, TSOs and waste management organisations (WMOs) on (1) the regulatory expectations at decision hold points and (2) how the scientific and technical elements carried out by the WMOs comply with these expectations. In that perspective, the needs in clarification of existing regulatory guidance or in developing new guidance will be addressed. Exchanges with IGD-TP on these issues is favoured. In addition, the role of expertise function and the needs for the improvement thereof will be discussed;
- in coordination with or complementing WMO's research program, defining TSO's R&D program that would ensure independent capability development for reviewing the Safety Case and assessing the scientific arguments provided by WMOs. TSO's R&D program and priorities will be addressed by favouring close interaction with IGD-TP and seeking joint research activities with the WMOs in order to foster common understanding of technical key points for safety and avoiding undue duplication;
- ensuring competence building of experts in charge of technical review and transfer of knowledge on waste safety and radiation protection; the needs in guidance development for harmonising the technical review activity and in dedicated training and tutoring for spreading the expertise culture and practices will be addressed;
- sharing, where needed, expertise approach with various stakeholders, in a manner more integrated than where only communication or dissemination are envisaged. Compilation of past actions and learning of ways of implication of stakeholders in the process of technical review will be discussed.

Project Objectives: The objective of the FP7 program SITEX project is to set up a network capable of harmonizing European approaches to technical expertise in geological repositories for radioactive waste. Lasting 24 months, SITEX brings together 15 organisations representing technical safety organisations (TSOs) and safety authorities, as well as civil society outreach specialists. SITEX plans to help establishing the conditions required for developing a sustainable network of technical safety experts who have their own skills and analytical tools at their disposal, independently of the operators, and who are capable of conducting their own research programs in coordination with research activities performed by operators.

Profile of Slovak Participant/ -s: DECOM, a.s. is a company with a 21-year history of providing engineering and consultancy services in nuclear energy for customers in Slovakia and abroad, mainly in NPP decommissioning and waste management planning and documentation. The company was involved in the development of deep geological repository in Slovakia as coordinator of research works. Its current main activities include technical support in technical and economic analyses of nuclear installation decommissioning, radioactive waste management and EIA assessment procedures. DECOM has participated in a number of international projects related to radioactive waste and spent nuclear fuel management including public involvement.

SK Participant Project Cost: EUR 96 000

SK Participant EC Financial Contribution: EUR 85 600

Project Outcomes planned/real: SITEX plans were to help establishing the conditions required for developing a sustainable network of technical safety experts who have their own skills and analytical tools, independently of the operators, and who are capable of conducting their own research programs in coordination with research activities performed by operators. The aim of SITEX is to pave the way for the establishment a coordinated European and possibly international Workforce ensuring a sustainable capability:

- to provide independent technical expertise in the field of RadWaste disposal safety and Radioprotection,
- to harmonize and coordinate research programmes involving TSOs and regulatory authorities,
- to ensure competence building and transfer of knowledge, without replacing national competencies. This workforce would contribute in encouraging the development of harmonized technical expertise methods among the EU Member States, in particular in the practical implementation of the EC Directive (including the Peer review process), the Aarhus Convention, etc.

Societal impact is expected by developing technical skills of public stakeholders and defining the conditions for their involvement in the assessment process; that participation would contribute in building up the credibility of the safety analysis process over time.



Slovak Participant's Role in Project: The role of DECOM as national representative of a small technical support organisation was focused on contributing to all research tasks the information on the national layout. Furthermore, DECOM was a leading beneficiary responsible for managing the stakeholder involvement work package while focusing on collecting information on the present state of stakeholder involvement practices and experience across Europe. Under SITEX project the European workshop "Independent Technical Expertise Interacting with Civil society on Radioactive Waste Management in Europe" was organised by DECOM in Slovakia.

TRASNUSAFE

Project ID: 249674

Project Title: TRAINING SCHEMES ON NUCLEAR SAFETY CULTURE

Project website: <http://trasnusafe.eu/>

Project Start Date: 2010-11-01

Project End Date: 2014-10-31

Project Total Cost: EUR 1 926 948

Project EC Financial Contribution: EUR 974 133.4

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SLOVAK PARTICIPANT 2

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 SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE, Slovak Technical University (STUBA)- SLOVAKIA

Project Description: The European Commission has funded a project, TRASNUSAFE, to design, develop and validate training schemes on nuclear safety culture for professionals operating at a high level of managerial responsibility in the industrial and medical sectors.

Project Objectives: The central objective being the mutual recognition of good practices and behaviours related to the safety culture management of the nuclear installations in Europe, the safety managers will be the first beneficiaries of this coordination action. Two groups of users will be set up: a nuclear industry group and a use of ionising radiation based technology group. The analysis team (WP1) will collect and analyse the data on the needs. It will exchange information on a regional basis. The links between the ALARA principle and the safety culture will be subject of a specific action in WP2. Two reflection groups will be organised with the European ALARA Network and the European Platform EUTERP. Using the results of WP1, the design and development team (WP3) will involve several European training providers, as well as university specialists of the technical topics and methods to be dealt with, including distance learning. The validation team (WP4) will test the new teaching modules by means of pilot sessions. The Quality Assurance will be established as a support to the project.

SLOVAK PARTICIPANT 1

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 4 800

SK Participant EC Financial Contribution: EUR 0

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

SLOVAK PARTICIPANT 2

Profile of Slovak Participant/ -s: N/A

SK Participant Project Cost: EUR 72 370.8

SK Participant EC Financial Contribution: EUR 64 530.63

Project Outcomes planned/real: N/A

Slovak Participant's Role in Project: N/A

INDEX OF ORGANIZATIONS

This index contains names of all Slovak beneficiaries funded within 7th Framework Programme, as well as acronyms of projects in which they have participated. All projects have been marked with a color box corresponding with their specific programme (red for COOPERATION/ orange for IDEAS/ purple for PEOPLE/ pink for CAPACITIES and green for EURATOM). Additionally, these projects which have their profile in this publication have a page number assigned to them.

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SLOVAK FP7 SUCCESS STORIES UNDER ONE COVER