Participants (applicants) for H2020-INFRASUPP-4-2015

PERITIA PROJECT

Partner Description

Section 4:   Members of the consortium

Participant No.	Participant organisation name	Country
1. (Coordinator)	Cincis Ltd	Ireland
2	BASSCOM	Bulgaria
3	CIT DEVELOPMENT	Spain
4	The University of Economics, Bratislava (EUBA)	Slovak Republic
5	CompletIT	Bulgaria
6	National University of Galway (ICHEC)	Ireland
7	De Montfort University, Leicester	UK
8	European University of Cyprus	Cyprus
9	PIN-SME	Brussels
10	Fondazione Politecnico di Milano	Italy
11	University of Haifa	Israel

PERITIA

Partner Descriptions

4.1. Participants (applicants)

4.1.1 CINCIS Ltd

BIG DATA, DATA ANALYTICS AND HIGH PERFORMANCE COMPUTING and SOCIETAL CHALLENGES

Cincis Ltd (website www.cinsis-research.com) is an SME that specialises in the review and analysis of the application of information management big data and analytics capabilities for sociological research topics. We look at data and knowledge to see how it affects our society, and our daily lives, and to determine the future of how best we will manage our ICT surrounds. Specifically this means reviews of the technologies in detail, and reports for predictions of next generation stages of technology.

- We act as a catalyst for review and summarising the key issues of future trends of new areas of research and their impact on society.

- We analyse and assess infrastructure technologies and their impact on our ability to conduct new research, and our need for training and recognition for this new field of expertise.

- We offer assessments of the challenges of new technologies and ICT for society, for Big Data and its impact on the citizen and issues of social inclusion that have become so important today.

The trend to larger data sets is due to the additional information derivable from analysis of a single large set of related data, as compared to separate smaller sets with the same total amount of data, allowing correlations to be found to "spot business trends, determine quality of research, prevent diseases, link legal citations, combat crime, and determine real-time roadway traffic conditions" as examples.

Horizon 2020 Projects:

We specialise in Horizon 2020 projects for ICT and FET proposals, and will bring the power of Big Data technologies and analytics, visualization, development tools, performance and security features.

We act as a liaison for High Performance Computing sites and massively parallel groups to provide thousands of computing processer power for prototyping of applications developed, to demonstrate research ideas with Hadoop.

Dr Maureen O'Flynn PhD MBA MEng

has a PhD in Parallel Processor Systems, worked with the Central Statistics Office, Ireland and as a Project Manager with telecommunications systems company Verizon and Pioneer Investments.

My role in the Project: Project Coordinator

I have many years experience as a Program Manager and QA team lead in the software industry working for the following companies and organisations, and an MBA qualification.

Executive Officer, (2011 -2012)
Central Statistics Office, Ardee Road Dublin 6.
I was a project researcher at the CSO for new web design and improve the web site content for the Visualisation group with GIS software and graphical displays, testing prototypes of data formats for GIS data. I created prototype samples of new web visualizations with Statistical Explorer and other GIS display and a cloud computing project with Google called 'Public Data Explorer'.

PhD: Research Assistant, Computer Science - (2005 - 2010)

HCL Laboratory, Department of Computer Science, UCD, Belfield, Dublin 4.

I was a full-time student with a SFI scholarship at the Heterogeneous Computing Lab in UCD, a world leader in research for Parallel systems with MPI Programming. My PhD project was to performance for software running on a network of heterogeneous computing for detailed performance measurements of network traffic and modeling congestion regions of the high performance networks on Linux/Windows.

I prepared reports and published papers for IEEE international conferences, and journals, I estimated timing with MPI programming, and analysed TCP/IP congestion rates.

Product Manager -- (J2003- 2005)

Verizon Jervis House, Dublin 1

The PKI (Public Key Infrastructure) software from Verizon provides security for VPNs and email services. I was a product manager for *very large infrastructure* web servers and LDAP directory servers with experience in team work with full responsibility for the directory server LDAP product range, .

- **Product Management –** working with QA testing results to review requirements and functional specifications to design complex test plans and test cases, reporting and forcasting product release dates and schedules. Experience with various software development lifecycle methodologies, including Agile/SCRUM and rapid prototyping, performance testing and project management.
-

Program Manager/QA - (Aug 2002 –2003)

Pioneer Investments Ltd, Georges Plaza George's Quay, Dublin 1.

I was Program Manager and QA for a large infrastructure bank project, with Pioneer Investments project with Citibank, to establish the transfer communications protocol for a communication link for the investment funds for a daily transfer of accounts. I created Strategy and Program Plans and Test cases scenarios with Risk Assessment, to ensure the safe arrival of hedge funds transfer each day.

Tony O'Flynn MPA BA (Hons) Psychology/Sociology

has a Masters in Public Administration and is with the Department of Environment with the Irish Government, has worked with the Irish Central Statistics Office, reviewing and processing governmental data sets and Societal Big Data Challenges.

4.1.2 Bulgarian Association of Software Companies – BASSCOM

The Bulgarian Association of Software Companies - BASSCOM was established in 2001. BASSCOM is a non-profit industry association representing more than 60 leading companies developing software products and systems and offering comprehensive IT solutions, and over 100 associated members, among which universities, foundations, venture capital funds, etc.

The software industry is among the few Bulgarian industries with high added value, competitive worldwide, providing exceptional opportunities for professional development of the people working in the sector.

The main objectives of BASSCOM are to promote the Bulgarian software industry, to develop professionalism and competitiveness, to work for the improvement of the education system and to actively participate in creating and implementing policies for effective IT investments for the benefit of the entire society.

As an active player BASSCOM has a key role in the whole process of creation and development of a stable and predictable business environment through:
- Legislation initiatives and advice on fiscal policy, education, lobbying, PPP initiatives, etc.;
- Support of the industry development and raising the level of competitiveness of the ICT sector itself;
- Promotion of the competitiveness of SMEs through education - strong communication between Branch Associations, Academia and Universities in order to create a competent, skilled and aspiring generation of IT professionals, etc.
- Branding and export promotion of the sector; support of SMEs internationalization, participation in EU projects, etc.

BASSCOM operates in connection with several entities on a national, regional and international level (CEIBG, SEE IT Regional Initiative, PIN-SME – The Pan European ICT & eBusiness Network for SMEs).

As a co-founder and active member of PIN-SME, BASSCOM is involved in several initiatives in order to position ICT certifications in accordance with the e-Competence Framework (e-CF) and the European Qualifications Framework.
BASSCOM is represented at the Small Business Standards "mirror committee"of TC428 (TC 428 is a CEN Technical committee on e-Competences and ICT Professionalism", that playsa strategic role in the larger framework of digitalisation of the European industry).

Relative expertise
BASSCOM has participated in the following relevant projects and activities:

EU/Other Programme	Year	Project Identification or Contract Number	Partners	Description
Co-funded by USAID and America for Bulgaria Foundation	March 2010 – still running	Software Engineering Management Program (SEMP) - http://semp.esicenter.bg	SEMP program is implemented by ESI CEE in partnership with Carnegie Mellon University - Software	The implementation of the Program has supported the modernization of the ICT higher education, strengthening the management capacity of the Bulgarian ICT industry and increasing the companies' ability

			Engineering Institute (SEI-CMU) and together with Sofia University, Technical University of Sofia, New Bulgarian University and American University in Bulgaria, as well as Varna Free University, University of Ruse and the Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences, with the support of the Bulgarian Association of Software Companies (BASSCOM) and the Bulgarian ICT Cluster.	to work on complex programs with world ICT leaders through providing contemporary content and training courses on software engineering and IT services management, with a special focus on modern training methods and style, the ultimate goal of the Program being to make students, professors, and future employees in the ICT sector one of the important factors for the increased ICT competitiveness of Bulgaria. Local capacity has been built through the Train-the-Trainer component. Bulgarian trainers, lead lecturers and assistants (devoted lecturers from leading Bulgarian universities from the whole country with respective background qualification and with proven students' appreciation, confirmed via transparent selection procedure) are qualified under the coaching of the lecturers from SEI-CMU and ESI CEE.
BASSCOM, Bulgarian Association of Information Technologies (BAIT), Bulgarian Web Association (BWA), Association Telecommunications (ASTEL) and ICT Cluster's own financing	01/09/2011 – still running	Defining the requirements of the software industry in Bulgaria towards the educational system - to unite the efforts of the Bulgarian branch organizations from the ICT sector and create a working group on education, with the participation of representatives of member firms of BASSCOM, representatives of Association Telecommunications (ASTEL), Bulgarian Association of Information Technologies (BAIT), Bulgarian Web Association (BWA) and	BASSCOM, Bulgarian Association of Information Technologies (BAIT), Bulgarian Web Association (BWA), Association Telecommunications (ASTEL) and ICT Cluster	Development of a questionnaire and conducting a survey among Bulgarian ICT companies on the necessary abilities of young people, the types of software positions and the number of professionals needed in the medium term;Analysis of the results and their public presentation at a conference;Quantitative analysis of tertiary education and employment in computer software majors;Building a model of roles and competences in the software industry;Participation in projects to develop requirements for training programs for key positions based on competency models and quantitative predictions;Initiation of the Board of Education in cooperation with the civil initiative "Dialogue for the Future" - including representatives of the business, the state, the educational institutions and other stakeholders - in order to develop strategies and practical

		the ICT Cluster		actions for the implementation of the requirements of the educational system.
"Human Resources Development" Operational Programme 2007-2013, Grant Scheme BG051PO001-2.1.06 "Increasing the flexibility and efficiency of the labor market through active actions of social partners"	01/02/2013-10/2014	BG051PO001-2.1.06/23.10.2009г. "Development of Workforce Competence Assessment System by Sectors and Regions"	Bulgarian Industrial Association - BulgarianCoordinator; BASSCOM – Partner	Objectives: To increase adaptabilityand efficiency and to balance the supply and demand of the labour market by building a system for assessment of the workforce competences at branch and regional level. BASSCOM was a partner of the Bulgarian Industrial Association in the implementation of the project for the IT sector. The operation of the project was ensured by the establishment of National reference network (NRN) that covers on partnership principle employers, managers, professionals, consultants, experts from governmental and other institutions. The network consists of National Council for competence assessment; Sector skills committees (SSC) in different sectors including "Information Technology"; 10 regional centres of competence assessment; Over 200 pilot enterprises chosen from 20 economic sectors /currently 13 of which are ICT companies/; 400 trained and certified assessors of competences;
"Human Resources Development" Operational Programme 2007-2013, Grant Scheme BG051PO001-3.1.07 "Curricula update in higher education according to the requirements of the labour market"	19/02/2013-19/10/2014	BG051PO001-3.1.07-0029. Improving the quality of education in informatics and ICT in the Faculty of Mathematics and Informatics - Plovdiv University through creation and implementation of a sustainable model for updating the curricula according to the EU's strategy for growth 2020 and the requirements of the labour market - *under*	Plovdiv University, Bulgaria - Coordinator; BASSCOM – Partner	The overall objective is to create a direct link between the management and faculty councils of universities, e.g. the Plovdiv University by its Faculty of Mathematics and Informatics, and management of branch labour organizations, large enterprises and key experts, e.g. BASSCOM in order to redefine and update curricula in higher education. Thus the social order of business for new professionals will be translated into the language of education.

		implementation		
"Human Resources Development" Operational Programme, Grant Scheme BG051PO001-3.1.07 "Curricula update in higher education according to the requirements of the labour market"	28/05/2013-28/02/2015	BG051PO001-3.1.07-0009.Updating of the training documentation and the learning process in Varna Free University "Chernorizets Hrabar" - *under implementation*	Varna Free University "Chernorizets Hrabar", Bulgaria - Coordinator; BASSCOM – Partner	Objectives: The demand of the business for new professionals to be translated into the language of education. The implementation of the project enabled the ICT business to take part in the preparation of the curricula and the introduction of practical tasks in the process of training. This facilitated the development of professional skills among students and promoted the practice of periodically updating and introducing new curricula, together with representatives of the business, and correspondingly to the dynamics of the labour market. The implementation of the project leadto stronger relationships between VFU, research and business, which in turn will multiply the effect of improving the quality of training and employability of graduates in the country.

Participation of BASSCOM in other networking projects under FP6, FP7 etc.:

- **European IST** (Enhancing the participation of research organizations from Associated Candidate Countries to the 6th Framework Programme);
- **SEE-Innovation** (Facilitating innovation for ICT SMEs in South Eastern Europe);
- **Promotion of the Bulgarian Software Industry**(GTZ/GOPA funded project);
- **Competitiveness Enhancement and Enterprise Development** (Bulgaria-Moldova), (USAID funded project);
- **SFERA** (Structural Funds for European Regional Advancement);
- **ICTtrain** (The transfer of ICT acquis information from 4 different EU ICT industry associations with different experiences to Bulgarian, Romanian, Turkish and Croatian ICT industry associations);
- **Know-How Exchange Programme of the Central European Initiative** (CEI KEP Project);
- **ICT Certification in Action** (SA/CEN/ENTR/000/2009);
- **Defining a common approach for employers' and employee organisations to address future challenges in the ICT sector** (for EU member countries);
- **RFID-ROI-SME** - Pilot RFID Deployments and ROI Studies using Open Source Middleware and Tools under the CIP (ICT-PSP);
- **Kosovo Economic Development through Quality and Networking EU Support for Regional Economic Development** (EU funded programme specially dedicated to Kosovo);

- **FORSEE** - Regional ICT Foresight exercise for Southeast European countries (South East Europe Transnational Cooperation Program);
- **MOTEPA** - Development and Piloting a Model for Occupational Training and Employment of People with ASD in the ICT Sector (EC - DG Employment, Social Affairs and Equal Opportunities);
- **W3TV** - Methodologies and tools for the cost-effective development of high-quality Web applications for IPTV service environments (FP7-SME-2011-2 / Research for SME Associations);
- **SWITCH YOU** - Society and work inclusion technologies for children and youths with ASD (NGO Programme in Bulgaria, EEA Financial Mechanism);
- **FRACTALS** - Future Internet Enabled Agricultural Applications (FP7).

Publications/Data Analyses

As a part of various projects and initiatives BASSCOMconducts and participatesin a number of surveys and studiesin the field of IT and develops strategic analyses and research documents, as follows:

- **Bulgarian IT Industry Barometer** (an Annual report on the Software Sector in Bulgaria, published since 2009. It is based mainly on data from a survey conducted by BASSCOM among the leading Bulgarian software companies) - http://www.basscom.org/publications;
- **Strategic Requirements for the Bulgarian Education System** (as determined by the Working Group on Education by BASSCOM, BAIT, BWA, ASTEL, ICT Cluster and ESI CEE, Version 1.0, Sofia, Bulgaria, 2012) - http://www.basscom.org/activities?mi=5;
- **ICT Sector Analysis**(Sofia, Bulgaria, 2013)- http://www.basscom.org/publications;
- **Competence Model for 12 IT key positions** (Sofia, Bulgaria, 2013) – http://www.basscom.org/publications;
- **Competence Model for 5 IT managing key positions** (Sofia, Bulgaria, 2014) - http://www.basscom.org/publications;
- **Regional Innovation and Entrepreneurship Enhancement Strategy Roadmap**(developed by BASSCOM under the FORSEE Project, Sofia, Bulgaria, 2014. Based on the results of the Foresight Exercise, the strategy aims to promote entrepreneurial culture at all levels of ICT related actors) - http://www.forsee.eu./.

BASSCOM is a partner in the main ICT Conferences and Events, such as:

- **Webit Congress** Conference & Expo (organised by e-Academy, since 2009)webitcongress.coam/en/webit_expo/2009/press_room/etimes.bg_is_one_of_the_webit_media_partner_and_suppliing_industry_news.html;
- **Bulgarian ICT Watch** (organised by ICT Media and BASSCOM, since 2012) - http://events.idg.bg/en/2014/ictwatch/event;
- **Digitalk** (organised by Economedia, Sofia, Bulgaria, since 2012) - http://digitalk.bg/2012/en/#intro;
- **Smart Cities** Exhibition and Conference for South East Europe (organised by Via Expo, Sofia, Bulgaria, since 2013) - http://via-expo.com/en/pages/smart-cities;
- **Security Expo** (organised by Bulgarreklama, Sofia, Bulgaria, since 2013) - http://iec.bg/en/event/95/security-expo;

- **DigitalKidz** (organised by Economedia, Sofia, Bulgaria, 2014) - http://digitalkidz.newtrend.events/.

Key experts

Mrs. Maya Marinova, Executive Director, joined BASSCOM in March 2006. Responsible for the implementation of BASSCOM's strategic objectives, as well as the coordination and administration of the overall activity of the Association. As an Executive Director she is supervising and participating in the whole process of development and implementation of project activities at national and international level, participating in negotiation meetings with the EC, etc., and also in the process of project reporting. She has a good knowledge in development and implementation of bilateral and multinational EU and non-EU funded projects related to the ICT/software sector (USAID, UNDP, GTZ, Norwegian Cooperation Programme, CEI Know-How Exchange Programme – KEP, FP6, FP7, ICT PSP, etc.).

Along with the Chairman of the Managing Board she is representing the organization in local and regional initiatives.

Previously she worked at the Bulgarian SME Promotion Agency for over 6 years (Head of Department Internationalization of SMEs). She was involved in the implementation of a number of international projects in the field of trade and export promotion of Bulgarian SMEs and presentation of the economic potential of Bulgaria.

Mrs. Verka Ilieva, Project Manager, joined BASSCOM in April 2011. Over 14 years of experience in developing and managing of national, bilateral and international programs and projects, funded by national budget, EU Pre-accession and Structural funds, FP7, SEE Program, ICT PSP, UNDP, SIPPO, ITC/UNCTAD, JICA, JETRO, CIDA, OCEK, USAID, etc. She has a good understanding of preparatory processes in the field of economic and social cohesion in new EU member states as a part of the Bulgarian team that developed theOperational Program "Development of the Competitiveness of the Bulgarian Economy" 2007-2013 (OP "Competitiveness"), co-funded by EC ERDF. She has a broad experience in programs and projects related to ICT, SME development, trade promotion, innovations, EU issues and international relations. She is experienced in establishing, restructuring and strengthening of the administrative capacity of state institutions, establishing and development of Public-Private Partnership in different fields, e.g. innovations. She has a profound knowledge and experience in Project Cycle Management. She has been involved in the elaboration of different strategic documents, concepts, action plans, analyses, risk assessments, internal rules and procedures, audit trails, etc. She is a certified Consultant and Internal Auditor under ISO 9000:2000 Series.

Previously she worked for the Bulgarian SME Promotion Agency (Intermediate Body for BG OP "Competitiveness" 2007-2013) for over 11 years. As an Acting Head of the Monitoring Department she was in charge of technical monitoring at a national level of all grant projects, financed under OP "Competitiveness" 2007-2014.

4.1.3 Cit development

ICT SME specialized in design, development and an integrator of ICT solutions, making it the technology partner of the company which provides its services, and as Consulting company specialized in R&D activities specially ICT, mathematics logistics and security research and implementation/integration tasks in its other business activities. The main areas of activity of CIT are Consulting Services; Implementation of SAP® Systems and QlikView® solutions; Support and Incident Management; and R&D in different sectors, including ICT applications in electro mobility and smart cities. In this last aspect, CIT holds the business intelligence & smart systems of support collaborating with National Police Headquarters (providing a smart traffic management for Valencia), Valencian University Hospital and Murcian Health Public Service (eHealth systems) and different public / private companies in Spain supporting many of their technological systems. CITDEV is member of [European Technology Platform dedicated to Software and Services (NESSI)](#) and [Valencian Regional Innovation Technology Foundation, InnDEA.](#)

Expertise

CITDEV has an active participation in projects funded by Directorate-General for Research & Innovation of European Commission in which CITDEV leads the design and implementation of the business intelligence, PKI-based security architecture, M2M communications, user authentication access protocols, multidisciplinary (web-APP, Android, iOS-Apple platforms) interfaces in [FP7-SmartV2G](#), [FP7-Mobincity](#). Additionally, CITDEV achieves the implementation of the cloud service based on a support tool for farming activities through the implementation of a smart tool under the trial "Crop Protection Information Sharing" in [FP7-FiSpace](#).

Role in the Project:

CitDEV will specialise in the development of the website for the ecosystem of knowledge and the stakeholder display of information about e-infrastructure - and an integrator of ICT solutions, for the final Results Display website.

This is making them the technology partner of the company which provides its services, and as Consulting company specialized in R&D activities. They also play an active part in oother areas of research due to their wide ranging experience.

Publications
- *"Smart Vehicle to Grid Interface Project: Electromobility Management System Architecture and Field Test Results"*(*at* 2014 IEEE International Electric Vehicle Conference, Florence, Italy, 2014)
- *"SMARTV2G: Algorithms for EV infrastructure planning"* (*at* 27th International Electric Vehicle Symposium & Exhibition EVS27, Barcelona, Spain, 2013)
- *"Elderly Living Independently with Ambient Intelligence. The elderly lifestyle prediction solution for future smart homes"* (*atAmI-13*.Fourth International Joint Conference on Ambient Intelligence)

- ***"Optimal electric vehicles to grid power control for active demand services in distribution grids"** (*at 20th Mediterranean Conference on Control and Automation MED12, Barcelona, Spain, 2012)

Conferences and Events in where we have participated:

- International Congress "Urban pollution; General population and exposed workers". University of Rome "LA SAPIENZA" 13th December 2014.
  Speech: "Development of an innovative tool to improve the traffic conditions in cities"

- Smartgreens 2014. European Projects Space. Barcelona. Spain

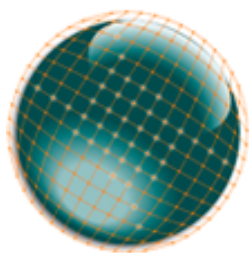- En.grids 014: Conference of the Technological Platform for Smart Grids. Lujbljana. Slovenia

- EmTechn Spain 2013. Valencia. Spain

- 5th International Conference on IRED – Berlin. Germany

People involved

Mr. Víctor Fernández. R&D Manager, MBA (Postgraduate certificate in Business Administration) Professor (ICT Master's Responsible) in University Jaume I of Castellon (Spain) and Associate Professor of Applied Economics in the Faculty of Economics & Mathematics in Valencia. He is Telecommunications Engineer, Maths Statistics Ing. and Software Architect, focused on applied Computer Science. He has received national and international awards such as Winner of the International Mathematical Olympiads, Champion of the National Olympiads in Physics, Best National Telecommunications Project in eCommerce and the award of management of different projects in the field of R&D from different universities in Spain. Concerning to his career, notably their occupation into High Technology & Performance Department and so on, the direction & project management of Processes & Strategy Department of Accenture, where he achieved and hold the management of eBusiness Area until 2004. Since then, he has coordinated and participated in EU projects funded by research and innovation framework program of the EC (for instance INTEROP, SmartV2G, Mobincity and FiSpace). Currently, he is the head of the research & development and innovation area of CIT and he has published several papers in international technical journals and renowned conferences in the field of virtual enterprises and information & knowledge management systems.

Mr. Raúl Urbano. R&D Analyst. Industrial Engineer. His expertise lies on applied Business Intelligence and Data Mining Technologies. He has coordinated the technical design in CITDEV's European Projects. He has participated in projects related to Business Intelligence solutions and Quality Systems for Public Health Administration and private companies. His expertise and research includes the study about how these all Data Mining models can be embedded in applications to offer improved business intelligence, more efficient for our implemented eHealth distributed systems. Moreover, he has a long expertise in eLearning coordination activities for high education. Currently, he is coordinating the technical issues in the European R&D Project SMARTV2G, MOBINCITY and FiSpace.

4.1.4 The University of Economics in Bratislava (UEBA)

The University of Economics in Bratislava (UEBA) is a leading public research university offering higher education in a wide range of disciplines in economics and management at all three levels of studies. UEBA is interested in research and teaching related cooperation in the following areas:

- Project management,
- Financial analysis including impact studies,
- Regional studies,
- Marketing analysis,
- Human capital and human resource management,
- Other aspects of economic analysis in an economic, finance and management related areas.

The expertise of the University of Economics in Bratislava is based on the experience of its faculty and more than 70 years of research and teaching of economics and management. Recently, the core research areas of UEBA academic staff are related to the knowledge economy, innovation economics, new forms of governance, sources of economic growth and competitiveness; globalization, financial markets dynamics and regulation, corporate governance in international business; employment and labour market rigidities. Also, the interdisciplinary research has intensified, esp. in the field of biomedicine and new materials.

Beneficiary Legal Name	
General Description	The University of Economics in Bratislava (UEBA) is a leading public university in Slovakia. It has extensive experience in research and teaching in Economics, Business, Finance and Management. UEBA has more than 10 000 students at its 7 faculties and it is the largest centre of research in these disciplines in Slovakia. Over 80 % of UEBA academic staffs hold a PhD. University is using quality standards compliant with ENQA. UEBA researchers have been involved in several international projects supported by FP6, FP7, COST, South East Europe Transnational Cooperation Programme, as well as by Structural Funds of the EU. One of the key recent projects supported from the European structural funds and implemented at UEBA has been the establishment of the *Centre of Excellence in Economic Research Focused on Civilization Challenges in the 21st Century*. The interdisciplinary research has intensified especially in the field of biomedicine and new material research. UEBA is also cooperating on the establishment of two University Research Parks for these fields in cooperation with local partners. A part of UEBA is also the Research, Educational and Information Center located in Kapušany.
Role and Commitment of key persons (including supervisors)	Prof. Anetta Čaplánová, PhD. – vice rector for Research and Doctoral Studies of the UEBA, professor of Economics Ing. Gabriel Adamek – project and finance manager
Key Research Facilities, Infrastructure and Equipment	UEBA owns a high-quality infrastructure for the realization of its research and teaching activities. It consists of information technology, videoconference and software equipment (mainly the statistical and econometrical software), accesses to the

	databases, reference and full-text databases of scientific articles and case studies and much more. <mark>These resources will support effective collaboration among partner institutions and the transfer of knowledge and experience in the international context.</mark>
Independent Research premises	The University is located in own university campus that fosters research and collaboration. All relevant premises, facilities and equipment are owned by UEBA and are fully independent from the other beneficiaries and organisations in the consortium.

Profile of researchers:

Personal information

Surname(s) / First name(s) **ADAMEK Gabriel**

Address(es) Oravska 3, 821 09 Bratislava, SLOVAKIA
Telephone(s) ++421 2 6729 5278 Mobile: ++421 908937711
E-mail(s) gabriel.adamek@euba.sk
Date of birth 3rd September 1975
Gender male

Work experience
Dates 09/2014 – currently

Occupation or position held Project manager
Main activities and responsibilities Preparation and implementation of international/transnational projects within the research and 3rd level study.
Project and finance management, Coordination, Dissemination activities, Contact point for external and internal stakeholders.

Name and address of employer University of Economics in Bratislava, Dolnozemska cesta 1, Bratislava SLOVAKIA,
Type of business or sector
References
Phone
Email
Academic
Prof. Anetta Caplanova, PhD.
++421 2 6729 5373
anetta.caplanova@euba.sk
Dates 03/2011 – 09/2014
Occupation or position held Project Manager
Main activities and responsibilities ☐ Implementation of international projects the Green Urban Transport Systems (OP Central Europe, 03/2010 – 03/2013, project partner) and the Sustainable European Biogas Environment (OP
Central Europe, 03/2010 – 09/2013, project partner)
☐ Education in the field of renewable energy sources
☐ Implementation of the HerbAid Project (www.herbaid.eu) – bringing selfemployment for marginal
groups
☐ Monitoring, Financial Management , Communication with the stakeholders, Public Relations

- Consulting activities for EU funds, project applications

Name and address of employer NGO No Gravity NGO

Kornelia Summerlingova

++421 905983671

nelushka@post.sk

Dates 01/2003 – 03/2011

Occupation or position held Credit Manager

Main activities and responsibilities ☐ Establishment and implementation of customer's credit assesment in the MOL Group (reached

success in significant decrease of overdue debt ratio from 22% (2003) up to 0,3% (2011))

- Implementation of Credit Management Support tools in ERP Systems (ORACLE, SAP, Navision, BPCS)
- Managing of Credit Management Slovnaft Group teams(Slovakia, Poland, Czech Republic)
- Harmonization the Credit Management Regulations within MOL Group
- Payment Securities among different countries/legal environment including L/Cs, Bank Guarantees
- Contract wording checking (all Contracts have been checked by the Credit Manager)
- Analyzing wording of Performance Guarantees received from suppliers
- Collection of overdue receivables, reminders
- Credit Insurance activities
- Credit Risk Capacity
- KPIs for Sale units and Credit Management team
- Reporting, Regulations, Contracting
- Cooperation with external partners (Credit Agencies, Collection Agencies, brokers, banks, insurers, external lawyers, etc)
- Implementation of Credit Management in oil and gas companies(subsidiaries) INA/Croatia TVK/ Hungary and IES/Italy
- Establishment of the Credit Committee (Chairmen: Credit Manager and Manager of Commerce) for the riskiest customers and taking decisions

Name and address of employer SLOVNAFT, a.s., Vlcia hrdlo 1, Bratislava, SLOVAKIA

Type of business or sector

Corporate/refinery

Ing. Jana Kovacova

++421 908437800

jana.kovacova@slovnaft.sk

Dates 01/2012 – 12/2002

Occupation or position held Investment Promotion Officer

Main activities and responsibilities
- Screen investment and technology opportunities in the developing countries identified by UNIDO Headquarters and other sources,
- Identify investment opportunities as well as appropriate technologies and possibilities for transfer of technlogy from developed countries to the Slovak Republic and from the SR to developing countries,
- Maintain contacts with Slovak enterprises, in order to explore possibilities for industrial
- cooperation with developed countries, with special attention focused on investment and technology projects emanating from UNIDO's activities,
- Appraise investment and other industrial cooperation projects utilizing financial analysis software,
  Establish contacts between Slovak enterprises and potentail foreign partners and follow them up,

- Provide information and advice to interested parties regarding forms of industrial cooperation, such as joint venture, leasing, subcontracting, licensing, limited-time partnerships and other form of transfer of resources to and from the Slovak Republic.

Name and address of employer UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANISATION
Type of business or sector International Organisation
Eva Hudacka
++421 905983671
Education and training Dates 09/1993 – 06/1998
Title of qualification awarded Ing., Principal subjects/Occupational skills, Finance and Banking
~~~~~~

Name: **Eva Pongrácz**
Gender: female
Office: University of Economics in Bratislava
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I work in the Department of Social Development and Labour of Faculty of National Economy at the University of Economics in Bratislava. I teach the subjects: Social security, Labour market and Employment Policy and Social Economics. I have been involved in research and published in peer reviewed journals numerous articles relateed to these fields. I work on the issues related to the non-profit sector, social economics, social inclusion, gender issues and labour market inequalities also related to the provision of social services and problems of the social exclusion. I have participated in numerous research projects in the field both at national and international levels. I am a principal researcher of the project "The establishment and perspectives of the social economics concept in the context of the ongoing socio-economic changes in Slovakia", which is financed by the Ministry of Education of the Slovak Republic. I am a member of the International Research Network EMES.

The **list of up to 5 relevant publications**

1. Pongrácz, Eva. Social economy. Bratislava: Ekonóm, 2011. ISBN 978–80–225–3291–4. 155 p.
2. PONGRÁCZ, Eva - KOLLÁRIKOVÁ, Tímea. Situation of young people in the Slovak labor market and possibilities of their placement in the area of social economy. In Hospodářská politika v členských zemích Evropské unie. Mezinárodní vědecká konference. Hospodářská politika v členských zemích Evropské unie : recenzovaný sborník příspěvků XII. mezinárodní vědecké konference : 16. - 18. září 2014 Ostravice [elektronický zdroj]. - [Karviná : Obchodně podnikatelská fakulta v Karviné SU v Opavě, 2014]. ISBN 978-80-7510-045-0, p. 762-771 CD ROM.
3. RIEVAJOVÁ, Eva - PONGRÁCZ, Eva. The Social economy as a tool to deal with unemployment in the Slovak Republic. In Nová ekonomika : vedecký časopis Národohospodárskej fakulty Ekonomickej

univerzity v Bratislave. - Bratislava : Národohospodárska fakulta EU, 2012. ISSN 1336-1732, Marec 2012, roč. 5, č. 1, p. 54-65.

4. RIEVAJOVÁ, Eva et al. Labour market and employment policy. Bratislava: Vydavateľstvo EKONÓM, 2012. 267 p. ISBN 978-80-225-3544-1.

5. PONGRÁCZ, Eva - RIEVAJOVÁ, Eva. Social economy as a tool to decrease inequality on the Slovak labor market. In: Trh práce v Slovenskej republike po jej vstupe do Európskej menovej únie : zborník príspevkov z vedeckej konferencie : 8. decembra 2011 Bratislava. - Bratislava : Ekonomický ústav SAV : Katedra sociálneho rozvoja a práce NHF EU, 2011. ISBN 978-80-7144-188-5, p. 202-209.

The list of 5 relevant projects

1. Project „The establishment and perspective of social economy concept development in the context of the ongoing socio-economic changes in Slovakia", financed by the Ministry of Education of the Slovak Republic. (2013-2015)

2. Project „Promotion of equal opportunities for Roma men and women by way of provisional countervailing measures" , financed by EEA Financial Mechanism. (2014 – 2015)

3. Project „The Support of Municipality Social Business". Funded by the Fund for non-governmental organizations, financed by the Financial mechanism EHP 2009-2014. (2014 – 2015)

4. Project „Poverty and employment", financed by EU ERASMUS+ (2015 – 2016)

5. Project „Labour market in relation to economic growth in the context of socio-economic changes", financed by the Ministry of Education of the Slovak Republic. (2012-2015)

Bratislava, January 2015

Keywords describing the expertise offered (up to 10 words)

Project Management, Financial Management, Economic Analysis, Marketing, Interdisciplinary Research, Biomedicine, New Materials, Social Challenges

(*) Relevant topic in work programme

INT-04-2015: The European Union's contribution to global development: in search of greater policy coherence

INT-05-2015: Rethinking the European Union crisis response mechanism in light of recent conflicts

INT-12-2015: The cultural, scientific and social dimension of EU-LAC relations

REFLECTIVE-3-2015: European cohesion, regional and urban policies and the perceptions of Europe

YOUNG-3-2015: Lifelong learning for young adults: better policies for growth and inclusion in Europe

INFRASUPP-4-2015: New professions and skills for e-infrastructures

EINFRA-5-2015: Centres of Excellence for computing applications

ISIB-03-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation

MG-5.4-2015: Strengthening the knowledge and capacities of local authorities

INNOSUP-1-2015: Cluster facilitated projects for new value chains

EE-11-2015: New ICT-based solutions for energy efficiency

Former participation in FP or other international cooperation projects

Welfare, Wealth and Work for Europe (2012-2016, Faculty of National Economy – project partner), FP7

Lifelong Learning, Innovation, Growth and Human Capital Tracks in Europe / LLLight in Europe (2012-2015, Faculty of Economic Informatics – project partner), FP7

Regional Trajectories to the Knowledge Economy: a dynamic model (EURODITE) (2005-2011, Faculty of National Economy – project partner), FP6

Priority European Programme in Advanced Regional Economics (PREPARE) (2006-2011, Faculty of National Economy – project partner), FP6

Science and Technology Research in a Knowledge-based Economy (STRIKE) (2007-2011, Faculty of National Economy – project partner), COST

The Territorial Dimension of the Innovation and Knowledge Economy (ESPON KIT) (2010-2013, Faculty of National Economy – project partner), ESPON

ENER SUPPLY - Energy Efficiency and Renewables – Supporting Policies in Local Level for Energy (2009-2013, Faculty of Business Economy with seat in Košice – project partner), South East Europe – Transnational Cooperation Programme

University Research Park for Biomedicine Bratislava (2013-2015, University of Economics in Bratislava – project partner), Operational Programme Science & Research

Creation of excellent workplace of economic research for solving the challenges of civilization in the 21st century (2010-2013, Faculty of National Economy- project partner), Operational Programme Science & Research and others.

4.1.5 CompletIT

doing business ac IndigoVerge

Expertise description

CompletIT Ltd. (2006) is specialized in design, development and online marketing for high-end web, mobile and cloud software solutions. CompletIT expertise covers business strategy, architecture, user interface and user experience design, programming and social media marketing for corporate web and intranet portals, community portals, media portals, startup products and other complex software solutions.

Besides offering services for clients, CompletIT also develops and offers proprietary software solutions. We have launched 3 own solutions so far, handling everything from concept through design and development to sales and online marketing. One of the solutions, SilverlightShow.net has become the most-popular non-Microsoft Silverlight portal, with 40,000+ members. The other two – Deed and HutGrip - have been supported by national innovation funding and received multiple awards, among which the President's innovation reward, top 8 position (from 1000 participants worldwide) in Get in the Ring 2013 innovation contest and others. We are experienced in national funding programs.

Skills and competences

Strategy, architecture, user interface and user experience design, programming and online marketing for high-end web, mobile and cloud software solutions.

Software project management of multiple projects and technologies for international customers.

Certified software engineers in Microsoft's technologies for desktop, web, mobile and cloud solutions. Experienced in open-source technologies, languages and frameworks. Deep knowledge about cloud infrastructure, scalable solutions, security, deployment and maintenance of software systems; Architectures for data storage, data analytics, redundancy and zero-downtime solutions.

Social media marketing, Google AdWords and analytics, search engine optimization, content marketing. Google Partner, with 2 Google-certified professionals.

Key technologies: Microsoft .Net (C#, ASP.NET, WPF, WinRT), RDBMS, NoSQL (Couchbase, MongoDB), RabbitMQ, Redis, AWS, Azure, Python, PHP, C/C++, Windows, Linux, Puppet, Virtualization, Node.JS, LAMP&LEMP stacks, etc.

Key personnel CompletIT:

Ivan Dragoev is a Co-founder of CompletIT (2006) and his role is related to business development and product management of the company's product HutGrip. He is also responsible for the technology development, R&D, product development, positioning and marketing of HutGrip.

Emil Stoychev is a partner in CompletIT since 2009 and he was the company's chief technology officer. He is certified Microsoft engineer & trainer, Silverlight MVP and responsible for the development of the SilverlightShow.net. Now he is focused on business development and sales.

Georgy Stoyanov is CompletIT's chief solution architect and CTO. He is actively involved in HutGrip's and Deed's architecture design and implementation, experienced in cloud solutions, testing and deployment.

Svetla Markova is CompletIt's chief marketing officer and she is responsible for brand recognition, marketing strategy and implementation, ad campaigns, social networks and positioning of the company and its products and services. She is also the business development and sales person behind Deed.

Products, services and publications

1. **HutGrip** (www.hutgrip.com) is a Cloud-based SaaS allowing the OEMs and their customers to increase the performance and efficiency of the equipment on the floor and prevent costly equipment failures. HutGrip provides efficient automated remote monitoring and reliable traceability of equipment's parameters by replacing VPNs with the cloud. Real-time analytics and remote failure alarms allow full control and prevention of possible equipment failures, from any part of the world. HutGrip was chosen to become part of GigTank - a business development program in Chattanooga, TN, United States. Later in 2013 we became part of the Alcatel Lucent ngConnect and LaunchTN TENN program. We started multiple projects in the Printing and Packaging Industry, Carpet, Induction Heating, Food Production and others. In November 2013 HutGrip became finalist in a global competition organized by the Kauffman Foundation - Get In the Ring. In December '13 we were awarded by the Bulgarian President Mr. Rosen Plevneliev as one of the most innovative companies in the country. In June 2014 HutGrip was invited to participate and present at Siemens New Ventures Forum in Munich.

2. **SilverlightShow.net**: a 40,000+ members community portal dedicated to Microsoft Silverlight, Windows Phone, Windows 8 and Windows RT technologies. The portal provides high quality – news, articles and web casts delivered by Microsoft MVPs, showcases e books and newsletters. Within 3 years the site has become the most popular non-Microsoft portal for Silverlight resources.

3. **Deed** is an employee engagement solution allowing companies to bond their teams via small but regular challenges. Thanks to creative challenge content and exciting user interface Deed has become an essential part of team life in many companies.

Previous projects

1. **Capillary Electrophoresis** based DNA sequencing and fragment analysis – a project

with CompletIT acting as software partner and responsible for data acquisition storing, analyzing and visualizing in web with a duration of 2 years.

2. **Adest Web** is a module for document management offering comprehensive access and search into documents via browser interface. The module may be integrated in both intranets and extranets, and features user management, access management, options for documents, advanced document search functionality with options to view, collate, email, print and others.

3. Various projects for Microsoft Bulgaria

Significant infrastructure and technical equipment

CompletIT is focused on building cloud products and services on top of the cloud infrastructure and platforms provided by different providers such as Amazon Web Services, Rackspace, Digital Ocean, Microsoft Azure and others. CompletIT is buying on monthly basis the required

computational power, storage and throughput from the selected providers and builds its private cloud on top of them.

4.1.6 National University of Ireland, Galway (NUI Galway)

The Irish Centre for High-End Computing (ICHEC) is the national HPC centre in Ireland. It was established in late 2005 under the aegis of the National University of Ireland, Galway (NUIG). With its 27 staff, including 18 research-active computational scientists, ICHEC is pursuing an active policy of engagement and collaboration with the research community to support the development of internationally competitive computational modelling and world-class research across all the main disciplines.

As ICHEC is an e-Infrastructure provider,the staff at the centre compromises of the e-infrastructure professionals for whom the project aims to establish the various distinct professions.

ICHEC is involved in significant training and mentoring activities, including the provision of HPC-related courses both nationally and internationally, and the hosting of students every year. In 2014 it was involved in delivering a total of 67 training days, half of which consists of ECTS-accredited taught modules.

Since its establishment in 1845, NUIG has developed a distinguished record in scholarship and research. The university is one of Ireland's foremost educational institutions.

Role:

ICHEC will be involved in WP6 (Reference Model) developing case studies, WP8 (Education and e-Infrastructure Careers) and WP10 (Dissemination, Exploitation & Communication).

Participants in the project:

Dr. Simon Wong (male) is an adjunct lecturer in NUI Galway (Discipline of Information Technology) and leads the education and training activities at ICHEC that include provision of courses, accredited university teaching, industry training and pan-European training coordination (e.g. the establishment and operation of six PRACE Advanced Training Centres in Europe). He also in charge of bioinformatics support at ICHEC enabling high-end computational research for the bioinformatics community, which includes PhD mentorships in collaboration with universities. He holds a PhD from Trinity College Dublin and carried out postdoctoral research in computational genomics at The University of Queensland in Brisbane, Australia.

Dr. Michael Browne (male) is the Technical Manager at ICHEC. He leads national service user support and coordinates PRACE activities at ICHEC. He works closely with Irish PIs that are actively pursuing access to some of the world's fastest HPC systems including PRACE resources. He co-leads a task in PRACE-1IP and PRACE-2IP and acts as an advisor at PRACE council level. He is the Irish representative to the ETP4HPC.

Ms. Nicola McDonnell(female) coordinates project management activities within ICHEC. She has many years of technical and managerial experience within HPC while working at ICHEC and EPCC (University of Edinburgh). She was the Pillar 4 (WP3 Dissemination and WP4 Training) co-Leader in PRACE-2IP. She lead the PRACE-3IP Summer of HPC programme for 2013; its

inaugural year. She studied Natural Sciences at Trinity College Dublin (TCD) and has an MSc in Computer Science from Queens University, Belfast.

Ms. Emma Hogan(female) is a Data Analyst with experience spanning the HPC, FMCG, biomedical, financial and pharmaceutical industries. She is the PRACE-3IP WP3 Leader and PRACE-4IP WP3 Co-Leader. She holds an BA in Economics & Business from Trinity College Dublin, an MA in Economic Policy from the National University of Ireland, Galway and a H.Dip in Statistics from the National University of Ireland, Maynooth. She splits her time between analytic and communications & outreach roles at ICHEC. Her interests include HPC outreach, dissemination and training.

Previous project activities:

ICHEC is the Irish representative in the series of Partnership for Advanced Computing in Europe (PRACE) projects funded by the EC, where it plays a leading role in the Training, Dissemination and Outreach work packages. ICHEC organised the inaugural and highly successful Summer of HPC programme in 2013 and hosted three European students that year. ICHEC is heavily involved in the organisation of the International HPC Summer School every year in collaboration with HPC organisations from the U.S., Canada and Japan, and hosted the 2012 instance of the school in Dublin. ICHEC also led the establishment of a network of six PRACE Advanced Training Centres in Europe and continues to coordinate their operations that delivers over 70 courses for over 1,500 researchers from all over Europe annually.

ETP4HPC[1] has identified one of it's areas of concern that HPC development could be limited by some barriers, namely, shortage of skills, insufficient availability of services to fill the gap between potential user demands and HPC solution offerings, usability of solutions or flexibility and vitality of the ecosystem. ICHEC are members of ETP4HPC since December 2014.

Partnering with General Motors (GM), ICHEC developed and delivery of a new 'Diploma in Applied Science entitled 'HPC System Design & Development' and funded by the Irish Springboard programme[2].This programme offers free courses at certificate, degree and master level leading to qualifications in areas where there are employment opportunities in the economy. GM provided placements for all eleven students signed up to the programme and it is expected that employment of students immediately following the programme, which is due to end in Q2 2015.

Infrastructure relevant to the project:

Fionn is the new Irish National Supercomputer, launched in November 2013. It is a heterogeneous machine made up of four components: Thin, Hybrid, Fat and Service The Thin component is an SGI ICE X system of 320 nodes or 7680 cores made of 2.4GHz Intel Ivy Bridge cores. Each node has 2x12 core processors, 64GB of RAM and is connected using FDR InfiniBand. This amounts to 20TB of RAM across the partition. The Hybrid partition contains 32 nodes. Each of these nodes has 2x10 core 2.2GHz Intel Ivy Bridge with 64GB of RAM. This partition has accelerators from Intel and NVIDIA. 16 nodes have 32 Intel Xeon Phi 5110P's while the other 16 have 32 NVIDIA K20X's. The Fat section is an SGI UV2000 where 1.7TB of RAM is accessible to 112 cores of Intel

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[1] http://www.etp4hpc.eu/strategy/the-strategy/
[2] http://www.springboardcourses.ie/

Sandy Bridge (14x8 cores processors) and 2 Intel Xeon Phi 5110P's.The final component contains a set of service and administrative nodes to provide user login, batch scheduling, management, tape backup, switches, etc. Storage is provided via a DDN SFA12k-20 with 560TB of capacity to all components of the machine via a Lustre file system.

4.1.7 De Montfort University (DMU)

a. Profile

De Montfort University (DMU) is a leading research-oriented University in the UK with approximately 20,500 students, 3,240 staff, and an annual turnover in the region of £132.5 million. De Montfort University has a dedicated and experienced Research and Development Office which will support the administrative aspects of the project and take responsibility for the non-academic side of project management.

The Centre for Computational Intelligence (CCI) is a specialist research, consultancy and teaching group based within De Montfort University, which aims to make a worthwhile and significant contribution to Computational Intelligence and its applications in Europe. CCI currently employs 15 full-time academic staff, 5 research fellows, and over 30 PhD students working on a wide range of Computational Intelligence related research projects. The CCI is well-known in the theoretical and application-driven research of Computational Intelligence and data mining, and conducts application driven basic research in fuzzy logic, Grey Systems, evolutionary computation, artificial neural networks, business intelligence and robotics. It has significant research collaborations with external experts in UK, Europe and other overseas countries, and industrial partners. The Centre has been involved in a number of international collaborative research projects funded by EU, European Space Agency (ESA), Royal Society and EPSRC, including FP7 International Incoming Fellowship project GS-A-DM-DS, FP7 Regions of Knowledge project THE-ISSUE, FP7 project SMARTRAIL, ESA project iTRAQ, Royal Society International Joint Project on Grey Systems, EPSRC project ECDONE, etc. The diversity of the research activities, the dedication of the staff and the culture of collaboration, has earned the Centre an international reputation and the excellent results in the 2008 RAE.

b. Key people

Dr. Yingjie Yang (male) is currently a Reader in Computational Intelligence at the Centre for Computational Intelligence of De Montfort University, Leicester, U.K. He received the B.Sc. (Hons.), M.Sc. and Ph.D. degrees in engineering from Northeastern University, Shenyang, China, in 1987, 1990, and 1994, respectively. He was awarded his PhD degree in computer science at Loughborough University, Loughborough, U.K., in 2008. Before joining De Montfort University in 2002, Dr. Yang had worked at Beijing Jiaotong University, Nottingham Trent University and Loughborough University for various research projects. He has published over 80 papers on grey systems, fuzzy sets, rough sets, neural networks and their applications to civil engineering, transportation and environmental engineering. His research interests include the representation and modelling of various uncertainties and the application of computational intelligence to real world

problems. Dr. Yang is a senior member of IEEE Systems, Man and Cybernetics Society, a co-chair of IEEE SMC Technical Committee on Grey Systems and the vice-chair of the Task Force on Competitions for Fuzzy Systems Technical Committee of IEEE Computational Intelligence Society. He has been involved in over 15 research projects with total fund value exceeding £1 million from various funding sources including EU FP6, EU FP7, European Space Agency, Royal Society, EPSRC, Royal Academy of Engineering, Leverhulme Trust and De Montfort University. He is currently focusing on extended fuzzy sets, grey systems, rough sets, and their applications to transportation. Dr. Yang has co-chaired several international conferences/special sessions, and been involved as programme committee member in over 80 international conferences. Dr. Yang is serving as associate editors in 5 international academic journals, including IEEE Transaction on Cybernetics, Journal of Intelligent and Fuzzy Systems, World Scientific Journal, Journal of Grey Systems and Journal of Grey System: Theory and Applications. His pioneer work on factor analysis using neural networks has been adopted by many researchers since its publication more than 10 years ago. His work on the integration of neural networks with GIS is an early attempt in this field. His work on extended fuzzy sets and grey systems has been well received in research community.

c. Relevant publications, and/or products, services

1. Y. Yang, S. Liu and R. John. "Uncertainty Representation of Grey Numbers and Grey Sets", *IEEE Transaction on Cybernetics*, PP(99):2168-2267, 2014.
2. Y. Yang and R. John. "Grey sets and greyness". *Information Sciences*, 185(1):249–264, 2012.
3. Y. Yang and C. Hinde. "A new extension of fuzzy sets using rough sets: R-fuzzy sets". *Information Sciences*, 180(3):354–365, 2010.
4. Y. Yang and F. Chiclana. "Intuitionistic fuzzy sets: Spherical representation and distances". *International Journal of Intelligent Systems*, 24(4):399–420, 2009.
5. Y. Yang and R. John. "Roughness bounds in rough set operations". *Information Sciences*, 176:3256–3267, 2006.

d. Relevant Projects

1. GS-A-DM-DS: Grey Systems and Its Application to Data Mining and Decision Support, EU FP7 Marie Curie International Incoming Fellowship, 2014-2016.
2. International Network Research Project on Grey Systems and Its Applications, Leverhulme Trust, 2015-2018.
3. International Joint Project on Grey Systems and Computational Intelligence, Royal Society, 2011-2013.
4. Evolutionary Computation for Dynamic Optimisation in Network Environments, EPSRC, 2012-2016.
5. ITRAQ: Integrated Traffic Management and Air Quality Control Using Space Services, Europe Space Agency, 2011-2012.

4.1.8   European University Cyprus

European University Cyprus (EUC – prior Cyprus College) is the first higher private educational institution to be established in Cyprus. Today EUC is a modern university, operating five Schools, namely, the School of Arts and Education Sciences, the School of Business Administration, the School of Humanities and Social Sciences, the School of Sciences, and the Medical School. All undergraduate and postgraduate programs offered by EUC are recognised nationally and internationally. The mission of the university is to educate our students for successful careers and life achievement, to understand and serve the needs of our society, and to create knowledge through research and innovation. EUC is a member of Laureate International Universities a worldwide network of Higher Education institutions founded in 1998 in the United States. Laureate International Universities is currently made up of more than 75 accredited campus-based and online institutions, in 29 countries throughout North America, Latin America, Europe, Asia, Africa and the Middle East, with more than 150 campuses and over 850,000 students worldwide.

With an emphasis on interdisciplinary approaches, EUC is one of the leading research institutions in Cyprus. During the last few years, the University has developed an intense action in a wide spectrum of ICT, Health, Education, and Socioeconomic Sciences and Humanities through coordination or participation in national, international and European Union-funded research programs. EUC is the only organization in Cyprus that has become partner in the following three ESFRI (European Strategy Forum on Research Infrastructures) projects, funded under the FP7 Capacities Programme and aiming at optimizing the use and development of the best research infrastructures existing in Europe: European Social Survey, Digital Research Infrastructure for the Arts and Humanities (Preparing DARIAH) and Common Language Resources and Technology Infrastructure (CLARIN). Other sources of funding for research conducted by faculty members involve the Life-Long Learning 2007-2013 and the Erasmus+ Programmes, the Horizon 2020 Programme, as well programmes funded by the Cyprus Research Promotion Foundation, the United Nations, Governmental Bodies and others. The University also serves as the national representative for the prestigious International Social Survey Program (ISSP), the World Economic Forum, and as the official administrator in Cyprus of the World Bank publications.

Research activity at EUC is centred in a number of research units and laboratories, which among others include the ICT-Enhanced Education Laboratory (ICTEE) involved in this project. ICTEE is committed to promoting the intelligent use of information technologies in teaching and learning through the conduct of high quality research that can stimulate effective innovations and improved learning outcomes. The Laboratory acts as the umbrella organization for numerous research projects of interdisciplinary nature, seeking to advance current knowledge in the area of ICT applications in educational environments. Projects are of a diverse scope, ranging from small interdepartmental collaborations to large European-level projects jointly undertaken by multiple institutions around the continent. More information about these projects can be found on the Laboratory website http://www.icteeresearch.com/projects.html

ICTEE has led the evaluation activities for several of the EU-funded projects in which it has participated. It has formulated the project evaluation strategy and has implemented the evaluation activities using various quantitative, qualitative, and blended research methods using traditional and/or online data collection methods.

☐ **a curriculum vitae or description of the profile of the persons, including their gender, who will be primarily responsible for carrying out the proposed research and/or innovation activities;**

Dr. Maria Meletiou-Mavrotheris is a Professor at the European University Cyprus and Director of the Research Laboratory in ICT-Enhanced Education (ICTEE). She has a Ph.D. in Mathematics Education (University of Texas at Austin), an M.Sc. in Statistics (University of Texas), an M.Sc. in Engineering (University of Texas), an M.A. in Open and Distance Learning (Open University, UK), a B.A. in Mathematics (University of Texas), and Teacher's Diploma in Elementary Education (Pedagogical Academy of Cyprus). Her research work focuses on the study of issues related to the teaching and learning of statistics, while at the same time contributing to several other areas of mathematics, science and technology education. She has established a respected research record through several publications in scholarly international journals, and has managed to obtain considerable funding in support of her research from funding agencies in Cyprus, the EU, and the USA. Indicative EU-funded programmes in which she has participated in the capacity of coordinator or research collaborator, include Erasmus+, LLP-Grundtvig, Socrates Minerva and Comenius, Leonardo da Vinci, and Eureka. Her past research activity includes the coordination of the EU-funded Socrates-Comenius project *EarlyStatistics: Enhancing the Teaching and Learning of Early Statistical Reasoning in European Schools*. The *EarlyStatistics* project won the 2009 Best Cooperative Project Award in Statistical Literacy. This award is given every two years by the International Association of Statistics Education (IASE),*"in recognition of outstanding, innovative, and influential statistical literacy projects that affect a broad segment of the general public and are fruit of the cooperation of different types of institutions (national statistical office and schools, schools and statistical societies, statistical societies and statistical offices, statistical societies, college, schools, etc."*

Dr. Efi Paparistodemou is a mathematics educator. She holds a PhD in Mathematics Education (Institute of Education, University of London), an MA in Mathematics Education (Institute of Education, University of London), a BSc in Mathematics and Statistics (University of Cyprus) and a B.Ed. in Education (University of Cyprus). She has worked in different positions concerning mathematics education: as a teacher, as a special math educator trainer and as an Assistant Professor at EUC. Currently, she is working at the Cyprus Pedagogical Institute as a writer of the new primary school pupils' mathematics books and as an advisor for in-service educators. She also holds an adjunct faculty position at EUC. She has been involved in several European and other projects concerning Mathematics, Statistics Education and Technology. She has published many studies in

scholarly international journals and edited volumes in relation to mathematics and statistics education, technology education, prospective teachers and teacher development in mathematics.

Publications, **and/or products, services (including <u>widely-used datasets</u> or software), or other achievements relevant to the call content;**

Prodromou, T., & Meletiou-Mavrotheris, M. (2015). *Students' Emerging Reasoning about Large-Scale Data.* To be presented at: 39th Conference of the International Group for the Psychology of Mathematics Education, Tasmania, Australia.

Meletiou-Mavrotheris, M., and Paparistodemou, E. (2014). Developing Young Learners' Reasoning about Samples and Sampling in the Context of Informal Inferences. *Educational Studies in Mathematics: Special Issue on Learning to Make Informal Statistical Inferences from Samples.*

Meletiou-Mavrotheris, M. , and Serrado, A. (2012). Distance Training of Mathematics Teachers: The *EarlyStatistics* Experience. *Universities and Knowledge Society Journal (RUSC). 9(*1), 340-353.

Meletiou-Mavrotheris, M., and Serradó, A. (2011). Distance Education of Statistics Teachers. In C. Batanero, G. Burrill, and C. Reading (Eds.), *Teaching Statistics in School Mathematics - Challenges for Teaching and Teacher Education: A joint ICMI/IASE Study* (pp. 383-394), New ICMI Study Series, Springer.

Paparistodemou, E., and Meletiou-Mavrotheris, M. (2008). Developing Young Students' Informal Inference Skills in Data Analysis. *Statistics Education Research Journal, 7*(2), 83-106.

List of up to 5 relevant previous projects or activities, connected to the subject of this proposal;

Socrates/Comenius Action (Program Coordinator): EarlyStatistics- Enhancing the Teaching and Learning of Early Statistical Reasoning in European Schools, level of funding €275 000, 2005-2008. The overall aim of the project was to enhance the quality of statistics education offered in European schools by utilizing distance education to offer a high-quality professional development opportunities in statistics education to geographically-dispersed teachers. The project consortium developed and pilot tested an online professional development course in statistics education targeting European elementary and middle school mathematics teachers. The course facilitates intercultural collaboration of teachers using contemporary technological tools and resources. An online information base offers access to standards-based pedagogical models, didactic approaches, and instructional materials, resulting in a complete and flexible teacher professional development program.

European Commission - Lifelong Learning Development of Innovative ICT-Based Content, Services, Pedagogies and Practice for Lifelong Learning Multilateral Network (Research Collaborator): School on Cloud: Connecting Education to the Cloud for Digital Citizenship, level of funding €450 000, 2014-2016. The Cloud is a major technological breakthrough with huge potential for education. It allows students and their tutors/teachers to interact productively in formal and informal education situations. Hosted Cloud communities mean that learners themselves can become creators and developers. Laptops and tablets will be everywhere, eBooks will replace text books as a normal part of classroom learning. Every learner will have access to a device of their own. An integrated system can also have an offline mode. Even remote communities can be connected. Making this happen is an ET 2020 challenge. *School on Cloud* is a project funded by the European Union Lifelong Learning program, under the KA3 ICT Multilateral Network action, that focuses on the impact of the Cloud and apps on education. It has built a network that explores the new dynamic ways to educate that aligns with the way we think, share, learn and collaborate outside of the classroom, across various education sectors. *School on Cloud* aims to respond to the dynamic, interactive, multimedia ICT environments that allow resources to be distributed in a range of formats by: (i) undertaking research and publish the "state of art"; (ii) examining pedagogical approaches; (iii) producing guidance resources for teachers and teacher educators; (iv) establishing four working groups themes on management (transition), iTeacher/Trainer, personalised learning and Cloud-based digital futures; (v) creating a project website offering access to materials, an online community, training opportunities and SoC products, research reports, resources etc., and (vi) disseminating School on Cloud and widen community via partners' extended networks.

European Commission - Lifelong Learning Program Erasmus Academic Networks (Research Collaborator): European and Global Engineering Education (EUGENE), level of funding €600000, 2009-2012. EUGENE Network aimed at improving the impact of European Engineering Education (EE) on competitiveness, innovation and socio-economic growth in a global context. During the project lifetime, a top-level "discussion & action" forum was set to monitor and support

the continuous evolution of EE in the EHEA and to open its competition and cooperation borders beyond Europe. In order to ensure managerial effectiveness, EUGENE was organised in 5 Lines and 3 Transversal Actions (TA), identifying main issues in the development of the current EE scenario in Europe and important tools for reaching the overall aim of the Academic Network. The first Line was concerned with the establishment of a European set of excellence standards and principles to make the PhD training in engineering and technology in Europe more compatible, effective, competitive and innovative. The second Line aimed at promoting EE in Europe as a true research field to improve all aspects of it in comparison also with worldwide developments. The third Line had been aimed at enhancing trans-national mobility of engineering students, graduates and professionals, supporting efforts to spread the accreditation of degree programs in engineering, maintaining contacts with the International Engineering Alliance, and other international organisations. LLL and Continuing EE had been the concern of the fourth Line, as tools of paramount importance for the improvement of the professional development of European engineers. The fifth Line's goal was to enhance the attractiveness of engineering studies in Europe both for Europeans as well as non-Europeans (a multifaceted topic that included gender problems, influence of media, and many other sub-topics). The Transversal actions (TAs) considered actions of transversal importance for the whole AN, such as the continuous maintenance of the EUGENE web site, the involvement of industrial partners, the establishment of a European Engineering Deans Council.

European Commission - Lifelong Learning Development of Innovative ICT-Based Content, Services, Pedagogies and Practice for Lifelong Learning Multilateral Network (Research Collaborator): ENTELIS: **European Network for Technology Enhanced Learning in an Inclusive Society***, level of funding €450 000, 2014-2016.* The development of digital skills is important for the inclusion and participation, further learning, employability, emancipation and active citizenship and self-fulfilment of people with disabilities. ENTELIS, a KA3 ICT Multilateral Network, aims to address issues of reducing the digital divide, especially for people with disabilities of all ages, and to increase participation and social inclusion, by creating a sustainable network of significant stakeholders in digital competence acquisition of people with disabilities. The project will promote the quality and quantity of opportunities for learners with disabilities, by sharing experiences and expertise and by providing policymakers, and the entire community committed to support people with disabilities, with foresight scenario's and roadmaps. The role of assistive technology in educational processes will be a central issue in this project, although also mainstream ICT and accessibility issues will be addressed.

European Commission - LLP Tempus Higher Education and Society Joint Project (Research Collaborator): NeReLa: Building Network of Remote Labs for strengthening university-secondary vocational schools collaboration, level of funding €750 000, 2014-2016. The wider objective of this project is to increase attractiveness of engineering education through innovative teaching methods as well as through the strengthening of university- secondary vocational schools collaboration The specific objectives, which the project aims to achieve, are the following: (i) To build cross-universities network of remote engineering laboratories in order to enhance engineering education at Serbian HE institutions; (ii) To strengthen university-secondary vocational schools collaboration through secondary vocational schools teacher training in using resources of The Library of Remote Experiments; and (iii) To bring remote engineering experiments into secondary vocational school classrooms in order to promote engineering education attractiveness to prospective engineering students.

Descriptions of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work;   --

Research activities at EUC are mainly implemented through a number of dedicated Research Units / Laboratories that are equipped with state-of-the art technology, including software and hardware for large scale data collection and analysis. In the following paragraphs we present the most relevant examples of these establishments, along with a short description of their activities and their areas of specialization.

ICT-Enhanced Education (ICTEE) Laboratory (www.icteeresearch.com)
The Research Laboratory in ICT-Enhanced Education is committed to promoting the best in educational technology through the conduct of high quality research. The Laboratory extends its efforts beyond EUC by entering into creative partnerships with educational, community, corporate, and research groups in Cyprus and beyond. It serves as a national resource for stimulating research on innovative, technology-enabled solutions to critical problems in education and training, which can provide faster and more effective access to knowledge for all learners, regardless of their circumstances.

Center for Mobile Computing (MECI) (meci.euc.ac.cy)
The Center for Mobile Computing conducts high quality basic and applied research in the area of mobile computing. It also develops and promotes novel technologies, and promotes entrepreneurship and mobile computing-related education in Cyprus. Furthermore, MECI brings together researchers from the public and private sector in Cyprus and internationally and the local industry, public organizations or local associations.

Center for Game Studies (CGS) (cgs.euc.ac.cy)
The Center for Game Studies conducts research activities on various aspects of games, from their impact on society to the creation of game design and evaluation principles and guidelines. The Center is particularly interested in social games, and the way that these games allow players to socialize, as well as how they should be designed to maximize the social player experience.

Centre for Risk and Safety in the Environment (CERISE) (ceriseeuc.blogspot.com)
The Center for Risk and Safety in the Environment fosters high level research and development in the area of environmental risk and safety. It provides tailor made services to the local and wider business and industrial community and provides high level educational output in the areas of safety and risk assessment in the micro and macro environment.

The previous Units / Laboratories, as well as a significant number of smaller establishments which operate under the auspices of European University Cyprus, share a common view about the objectives of their research activities, which can be summarized as follows:
- Implementation of sustainable world-class funded and non-funded research activities in their specialization area;
- Development of research partnerships with academic and industrial stakeholders in Cyprus and abroad Implementation of teaching, training, and consultation schemes in their specialization area.

7.1.9 PIN-SME

PIN-SME is an association formed in 2007 to represent the interests of Europe's ICT SME sector. Currently ten national and regional associations are members, representing some 50,000 ICT SME companies that account for around 200,000 jobs. PIN-SME aims to ensure that ICT SMEs get talked to rather than just talked about. It provides a voice for ICT SMEs in the policy and business arenas and is already represented in several EU expert groups and taskforces.

Summary

• Sebastiano is currently the Secretary General of PIN-SME, the first European association of the ICT sector exclusively focused on representing the interests of SMEs. PIN-SME currently represents more than 50.000 enterprises, which employ around 200.000 people across Europe.

• From 2005 to 2013 Sebastiano worked for NORMAPME, the European association of small and medium sized enterprises (SMEs) for standardisation, funded by the European Commission in 1996. The association's members represent 12 Million SMEs in Europe. Sebastiano joined NORMAPME as a project manager in 2005. Since then, he contributed to the development of NORMAPME that achieved to doubled its size and operating budget. From 2010 he was the Director of NORMAPME.

• From 2010 to 2012 Sebastiano also launched and managed the EU funded project RFID-ROI-SME. This is a 2.5 M € initiative that deploys 8 different RFID pilot projects in 6 European countries.

• Prior to joining NORMAPME in 2005, Sebastiano worked in Belgium for the Swedish-American truck manufacturer VOLVO.

• Sebastiano holds a Masters Degree in Industrial Engineering and Management from the University of Bologna (Italy)

• Sebastiano fluently speaks and works in English, French and Spanish in addition to his mother tongue, Italian.

Experience

[Secretary General](#)   [PIN-SME](#)

December 2007 – Present (7 years 2 months)Brussels Area, Belgium

• Representing the association in relevant public fora and before the European institutions
• Advocating the association's public policy interests
• Leading negotiations with Trade Unions on behalf of the associations' members
• Managing the association's secretariat
• Reporting to the Board and General Assembly

[Director](#)

[NORMAPME](#)

October 2010 – September 2013 (3 years)Brussels Area, Belgium

• Managing a team of 8 project managers and reporting to the Secretary General
• Coordinating a team of 50 industry experts in standardization technical committees
• Representing the association in relevant public fora and before the European institutions

(Open)1 recommendation

[Tom Brookes](#)

Project Manager at Axillium Research

Sebastiano is a capable, well connected EU expert. His project control was personable but strict, delivering a successful project. He is bilingual and connects excellently with all people, bringing the best communications out of partners. He is a...[View](#)

[Head of Unit](#)

[NORMAPME](#)
October 2008 – September 2010 (2 years)Brussels Area, Belgium

[Standardization Project Manager](#)

[NORMAPME](#)
December 2005 – September 2008 (2 years 10 months)Brussels Area, Belgium

Aims of PIN-SME - detailed in the statute these include:

- to promote meetings and exchanges of experience and know-how amongst its members; in particular PIN-SME will promote exchanges of interesting experiences and best practices in the ICT sector;
- to carry out actions at the European level, dealing with or delving more deeply into topics of general interest to ICT small and medium sized enterprises in Europe; initiatives may in particular take the form of training programmes, organising conferences and seminars and carrying out research;
- to provide information to the members on Community policies;
- ancillary to the foregoing, to represent the interests and stances of the organisation's members on specific problems vis-à-vis the institutions of the European Union
- to carry out actions in third countries, especially in matters relating to the support and training of local ICT small and medium sized enterprises.
- In order to pursue its objectives the association will carry out the following activities:
- Participating in and propose EU founded projects;

- Organizing conferences and seminars;
- Publication of newsletters and studies;
- Research activities on ICT related areas;
- Monitoring EU policies and regulations on ICT and informing its members.

Grand Coalition for Digital Jobs: PIN-SME promotes eCF as EU standard for eSkills

Brussels, 29 August 2014 - PIN-SME officially supports the Grand Coalition for Digital Jobs in order   to

 promote the adoption and uptake of a European standard for ICT skills. Read more about PIN-SME's involvement in the Grand Coalition and support to e-Competence Framework.

Topics – links:

The Grand Coalition for Digital Jobs

The role of PIN-SME in the Coalition

Our Pledge: a standard for e-skills in Europe

Progress toward our pledge

PIN-SME- Welcome to the leading web platform for european clusters

This platform provides online quality information and networking support for clusters (organisations and members) aiming to improve their performance and increase their competitiveness through the stimulation of trans-national and international cooperation. This brand new online portal rich in features and information has been developed aiming to build communication bridges between cluster players from the same or a different sector. The ultimate goal is to facilitate cluster cooperation, both between cluster organisations, as well as between cluster members (i.e. companies, R&D institutions, other players).

The European Cluster Collaboration Platform is embedded within the European Cluster Excellence Initiative and financed by the Competitiveness and Innovation Programme, since it is an instrument provided by DG Enterprise & Industry to enable cluster organisations to actively play a role on the international cluster arena. This can be achieved either through a professional presentation of their activities/members, through a dynamic interaction in virtual or personal dialogue with peers in communities or through accessing structured cluster information and using it to become better. "Striving for excellence" represents the mindset of those cluster people who intend to bring their

clusters to an excellent level of performance. Some of them are at the beginning of this process, some of them already advanced, but it is this shared spirit that makes their getting together on/through the platform that creates a win-win situation.

What the platform does not target: to become just a telephone book or a data graveyard. It targets a quality approach through the quality information provided by its users in their profiles, through their contributions, postings, intensity of use, but also in their feedback on how the platform could better serve their expressed needs. The European Cluster Collaboration Platform is a user-driven instrument. The basis for its development lies in the results of the largest European survey among cluster organisations and cluster policy makers. 420 cluster players provided detailed input regarding their expectations from such an online portal that were considered in the technical development (for detailed info see >>here). However, the platform must keep the pace with the changes in the needs of the users in order to make it useful over a long period of time and for this it is vital that ideas for improvement coming from users should be permanently provided and considered.

7.1.10 Fondazione Politecnico Milano

Fondazione Politecnico di Milano was founded in 2003 through a joint effort between the Politecnico di Milano, major city and regional institutions and important corporations to support the university's research projects and contribute to innovating and developing the economic, productive and administrative environment. Fondazione Politecnico is committed to building a more effective relationship between the university, industry and public administrations.

Fully controlled by the Politecnico di Milano (PoliMI), FPM has access to and can leverage on all of its competencies and resources, including 1700 full-time professors and researchers.

More specifically, FPM was specifically set up to be a flexible instrument for the socio-economic development of the PoliMi eco-system by fostering, mainly through joint projects and initiatives, collaboration between academic research, industry (large and small), and public institutions (local and regional), many of which directly participate in FPM as founding members or institutional partners.

To achieve its goals, Fondazione Politecnico develops:

- innovation projects not only for large companies, but for numerous small to medium sized enterprises that characterise the Italian economy;
- European projects that, by leveraging the Politecnico's renowned capabilities, extend the network of both university and industrial collaborations outside our borders.

These efforts are complemented by a number of training programmes aimed at upgrading professional skills, to keep workers up-to-date with the rapidly evolving labour market.

Aware of the importance of contributing to economic and social growth, Fondazione Politecnico develops social responsibility projects in collaboration with the Politecnico di Milano, involving teachers and students in the drive for civil and communal change.

In a global context, Fondazione Politecnico has been active in co-operation projects with both countries in need and nations experiencing exponential growth.

Within the Human Resource Project Promotion and Development Area, FPM is engaged in several European and local studies on eSkills and certification models for competences acquired on the job.

FPM started its work on European eSkills about ten years ago, participating in the European eSkills Forum, leading a survey on the Skills for eGovernment, and working at the European e-Competence framework (e-CF) in the CEN Workshop on ICT Skills since 2004, being the methodological leader of the several CWAs on the e-CF development.

Amongst the activities with social partners:
FPM contributed in the "Social partnership for digital jobs in Europe" (PIN-SME / UNIEurope) carrying on the study "European Social Dialogue in ICT". It is the scientific reference for the Rete Competenze per l'EconomiaDigitale (Assintel, Assinter IT, CNA-ict, ConfindustriaDigitale, Unimatica-Confapi, the major ICT employer Associations), born in 2012 to spread e-CF in the Italian market. It is the Rapporteur in the UNI Committee on ICT Professions which issued the e-CF national standard UNI 11506:2013. It is the national delegate for UNI in the CEN PC/428 e-Competences and ICT professionalism. It participates in the ESCO Reference Group "ICT service

activities", being involved in the ESCO ICT core Group as well. It also participated in the development of the JOBICT (www.jobict.it), the UILTuCS–Networkers' open portal for ICT job matching, , in cooperation with ASSINTEL and IWA Italia.

Past projects on the topic

Fondazione po9litecnico di Milano was involved in projects related to the development of the European e-Competence Framework as follows:

- Towards a European e-Competence Framework, 2006-2008; The European e-Competence Framework in action, 2008-2010, European e-Competence Framework 3.0, 2011-2013, within the CEN eSkills Workshop, covering the role of methodological leader.
- Implementing the eCompetence Framework into SMEs, 2009-2011, within the CEN eSkills Workshop, covering the role of Project Leader

Current projects on the topic

The Fondazione is currently involved in the following projects where it is leveraging its skills in ICT competence domain.

- MODAClouds (MOdel-Driven Approach for design and execution of applications on multipleClouds), project funded under the FP7-ICT WP programme, addressing methodologies and instruments for the design and prototyping, and code generation of applications on multi-Clouds (IP project; ObjectiveICT-2011.1.2 Cloud Computing, Internet of Services and Advanced SoftwareEngineering).Duration: 36 months. Budget 8.7 Million Euro (6.2 funded).
- PICTET (EQF-based professional ICT training for Russia and Kazakhstan). Project funded under theProgramme Tempus IV Call V. The project is aimed atcreating and e-qualification framework for Russia and Kazakhstan on the basis of the EQF ICT education experience in Europe,enhancing the RU-KZ system of professional ICT-training. Fondazione is WP1 which is related to the design of the qualification system for Russia and Kazakhstanand is responsible for theInformation System design.
- Lombardia Informatica (ICT insourcer of Lombardy Region): definition of business cases for ICT Shared Services in the healthcare ecosystem of Lombardy Region; focus on HR shared services for hospitals, unified communication and collaboration shared services for public administrations, shared service for Picture Archiving and Communications Systems (PACS) for hospitals.
- Lombardia Informatica (ICT insourcer of Lombardy Region): analysis of technologies and cost model for the private cloud infrastructure of Lombardia Informatica.

Clementina Marinoni, Head of department, HR Project Promotion and Development of skills, Fondazione Politecnico di Milano (the Foundation of the Technical University of Milan).

Lifelong learning : Training and skill development systems are fundamental to build a knowledge based economy, fostering innovative professional and organizational changes.

•designs and provides customized training services for businesses

•recognizes and enhances skills informally acquired through life and work experience

•develops and promotes e-collaboration and e-learning

Here, we present a selection of international projects. The full list of all projects is available on the Italian version of this website.

Social Responsibility: Polisocial is the academic social responsibility programme launched in 2012 by the Politecnico di Milano in collaboration with Fondazione Politecnico. In line with other international experiences, Polisocial stimulates and encourages new multidisciplinary approaches attentive to human and social development, promoting responsible practices of sustainable and equitable development in local and international settings.

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Published on *Digital Agenda for Europe* (http://ec.europa.eu/digital-agenda)

Home > Growth & Jobs > Grand Coalition > Get Involved > Current pledges > Rete Competenze per l'Economia Digitale >

Disseminate the European e-Competence Framework, e-CF, all over the national territory, and enhance the culture of competences for ICT within Italian enterprises.

In July 2012 Assintel, Assinter, CNA, namely the major ICT Company Associations in Italy, with the scientific support of Fondazione Politecnico di Milano (the Foundation of the Technical University of Milan), set up La Rete Competenze per l'Economia Digitale [1], the Italian Network for the **Competences in the Digital Economy.**

The Rete's purpose is to disseminate the **European e-Competence Framework** [2], e-CF, all over the national territory, and enhance the culture of competences for ICT within Italian enterprises, through specific joint or individual, precompetitive, initiatives and activities. La Rete has promoted and supported the development of the national e-CF-based technical standard UNI for the ICT competences and intends to be the national contact point for the e- CF against Europe.

The aim of the RETE in 2013 is to promote and disseminate the e-CF within the main stakeholders, namely enterprises, Public Administration and ICT professionals. The main actions to be organised accordingly are as follows:

Two general workshops addressing all potential stakeholders to introduce the RETE and the e-CF: Milan 7th November 2012; Torino 5th May 2013;

Two workshops organised by Assintel to present the e-CF and their Osservatorio Competenze ICT 2012 Report (where the eSkills surveys within around 500 SMEs were based on the e-CF): Milano,

5th December 2012; Roma 29th January 2013;

Development of a free of charge job-matching tool (JobICT) for enterprises and ICT professionals, based on the e-CF, by UilTucs, with the support of ASSINTEL, IWA Italia and FPM. IWA Italia has translated their web profiles in the e-CF language, using the **European ICT Profiles** structure (Generation 3), planned delivery, summer 2013:

- Revision of Città dei Mestieri (Provincia di Milano) ICT job profiles with the support of CNA, Assintel and FPM, through the e-CF, deadline November 2013;

- Development of the UNI technical standard based on the e-CF: under consultation, planned standard delivery, summer 2013;

- Meeting with Lombardy Region, by summer 2013

- Meeting with Tuscany Region by 2013;

- A third national workshop on the e-CF, planned in Autumn 2013.

Contact Person
Clementina Marinoni | Clementina.Marinoni@fondazione.polimi.it [3]

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Paolo Locatelli is project manager at FPM and scientific director in the Digital Innovation in Healthcare Observatory at School of Management – Politecnico di Milano. From 1998 he has developed strong competences in ICT support for healthcare processes and ICT innovation in companies and public administrations. WP leader of eHealth projects at national and regional level, he actually manages the research projects of FPM with relevant care organizations in Lombardy (IRCCS Istituto Nazionale dei Tumori, Azienda Ospedaliera Niguarda Ca' Granda, Fondazione Don Gnocchi, IRCCS Istituto Clinico Humanitas). In the last four years he leaded the work group in Lombardia Informatica who defined the guidelines for Hospital Information Systems in Lombardy. At EU level he has worked in the Leonardo project "ICT Lane – Towards a shared European Language for ICT Qualifications and Competencies" and he was technical expert in the eCareer Services project of the CEN/ISSS Workshop on ICT Skills (CEN CWA 16053:2009 - Interoperability of European e-Career Services).

Publications

- Health Care Information Systems: Architectural Models and Governance; P. Locatelli, N. Restifo, L. Gastaldi, M. Corso; In C. Kalloniatis (ed.), "Information Systems – Book 1" (ISBN 979-953-307-585-2), InTech - Open Access Publisher
- Mobile&Wireless Technologies Close The Safety Loop in Hospital's Bedside Therapy Management; P. Locatelli, N. Restifo, R. Facchini, E. Sini, M. Torresani; Awarded as Best Paper at IADIS International Conference Applied Computing 2011, 6-8 November 2011, Rio de Janeiro, Brazil
- Open source clinical portals: a model for healthcare information systems to support care processes and feed clinical research : an italian case of design, development, reuse, and exploitation. P. Locatelli, E. Baj, N. Restifo, G. Origgi, S. Bragagia. Advances in experimental medicine and biology 2011;696:667-77; Springer; PubMed ID: 21431608
- Healthcare Information Systems in a Network Environment: An interoperability model and a real case in a Pathology Network; E. Baj, P. Locatelli, I. Marzolla, N. Restifo, S. Bragagia, G. Origgi; HEALTHINF2010 – Third International Conference on Health Informatics, 20-23 January 2010, Valencia, Spain
- *The eCCO System: An eCompetence Management Tool Based on Semantic Networks; B. Pernici, P. Locatelli, C. Marinoni; R. Meersman, Z. Tari, P. Herrero et al. (Eds.): On the Move to Meaningful Internet Systems 2006: OTM 2006 Workshops, Lecture Notes in Computer Science (LCNS) 4278, pp. 1088 – 1099, Springer-Verlag Berlin Heidelberg 2006, http://www.springerlink.com/content/ym5l1g2463102x67/*

7.1.11 University of Haifa

Dr Dani Ben-Zvi is a senior lecturer at the University of Haifa, Israel, in the Faculty of Education, **Head of the Technologies in Education** Graduate Department, and member of the Mathematics Education Graduate Department.(SRTL).

His research interests focus on two aspects of human life: statistical reasoning and technology-enhanced learning. For many years, I co-chair with Joan Garfield the International Collaboration for Research on Statistical Reasoning, Thinking, and Literacy.

The Technologies in Education Program is intended for individuals wishing to gain expertise in the design, implementation, evaluation and research of educational programs in technology-rich environments. Relevant contexts for using such expertise include schools, informal education programs, industrial and governmental systems, colleges and universities. The program focuses on learning from a number of interacting perspectives, namely, cognition, education and special education, psychology, design and social context.

Dani Ben-Zvi's Publications

Ben-Zvi, D. (in press). Using wiki to promote collaborative learning in statistics
education. *Technology Innovations in Statistics Education Journal 1*(1). (Expected date: September 2007)

Ben-Zvi, D., Gil, E., & Apel, N. (in press). What is hidden beyond the data? Helping
young students to reason and argue about some wider universe. To appear in D. Pratt & J. Ainley (Eds.), *Reasoning about Informal Inferential Statistical Reasoning: A collection of current research studies*. Proceedings of the Fifth International Research Forum on Statistical Reasoning, Thinking, and Literacy (SRTL-5), University of Warwick, UK, August, 2007.

Chance, B., Ben-Zvi, D., Garfield, J., & Medina, E. (in press). The role of technology in improving student learning of statistics. *Technology Innovations in Statistics Education Journal 1*(1). (Expected date: September 2007)

Garfield, J., & Ben-Zvi, D. (in press, a). *Developing students' statistical reasoning: Connecting research and teaching practice*. Springer. (570 pages.)

Garfield, J., & Ben-Zvi, D. (in press, b). How students learn statistics revisited: A current review research on teaching and learning statistics. *International Statistical Review*.

Rota, S., & Ben-Zvi, D. (in press, a). *Exploratory Data Analysis – The water around
us* (Hebrew) (Student's Textbook in the *Pathways* Series). Tel-Aviv: The Center for Educational Technology.

Rota, S., & Ben-Zvi, D. (in press, b). *Exploratory Data Analysis – The water around
us* (Hebrew) (Teacher's Guide in the Pathways Series). Tel-Aviv: The Center for Educational Technology.

4.2. Third parties involved in the project (including use of third party resources)

Please complete, for each participant, the following table (or simply state "No third parties involved", if applicable):

Does the participant plan to subcontract certain tasks (please note that core tasks of the action should not be sub-contracted)	Y
If yes, please describe and justify the tasks to be subcontracted Consultancy advisory work from University Postdoctoral staff – over a range of issues, For the Reference Model, Cincis Ltd has requested 40,000 euro for this task, it would involve a number of experts providing assistance with the QA of the reports and the website and risk assessment that is part of WP1 for Cincis as lead project coordinator. The areas of expertise are: 1. Computational science 2. Data Analytics 3. Big Data Programming – hadoop 4. Machine Learning Algorithms 5. Social Media Data – key performance indicators 6. Digital Data Archiving 7. Security system administration These are a set of topics that e-Infrastructure reports and best practices will cover and i need extra advise and consultancy to verify the standards in-house at Cincis Ltd to ensure highest standards of verification and validation, and risk analysis. We plan to have a number of expert opinions for each area and work closely with each to ensure the best possible assessments.	
Does the participant envisage that part of its work is performed by linked third parties[3]	N
If yes, please describe the third party, the link of the participant to the third party, and describe and justify the foreseen tasks to be performed by the third party	
Does the participant envisage the use of contributions in kind provided by third parties (Articles 11 and 12 of the General Model Grant Agreement)	N
If yes, please describe the third party and their contributions	

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[3] A third party that is an affiliated entity or has a legal link to a participant implying a collaboration not limited to the action (Article 14 of the Model Grant Agreement).

Section 5:   Ethics and security

⚠️ *This section is not covered by the page limit.*

5.1   Ethics

If you have entered any ethics issues in the ethical issue table in the administrative proposal forms, you must:

- submit an ethics self-assessment, which:

  - describes how the proposal meets the national legal and ethical requirements of the country or countries where the tasks raising ethical issues are to be carried out;

  - explains in detail how you intend to address the issues in the ethical issues table, in particular as regards:

    - research objectives (e.g. study of vulnerable populations, dual use, etc.);

    - research methodology (e.g. clinical trials, involvement of children and related consent procedures, protection of any data collected, etc.);

    - the potential impact of the research (e.g. dual use issues, environmental damage, stigmatisation of particular social groups, political or financial retaliation, benefit-sharing, malevolent use, etc.).

- provide the documents that you need under national law (if you already have them), e.g.:
  - an ethics committee opinion;

  - the document notifying activities raising ethical issues or authorising such activities.

⚠️ *If these documents are not in English, you must also submit an English summary of them (containing, if available, the conclusions of the committee or authority concerned).*

⚠️ *If you plan to request these documents specifically for the action you are proposing, your request must contain an explicit reference to the action title.*

5.2   Security[4]

Please indicate if your project will involve:

- activities or results raising security issues: (YES/NO)

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[4]   Article 37.1 of the Model Grant Agreement: *Before disclosing results of activities raising security issues to a third party (including affiliated entities), a beneficiary must inform the coordinator — which must request written approval from the Commission/Agency.* Article 37.2: *Activities related to 'classified deliverables' must comply with the 'security requirements' until they are declassified. Action tasks related to classified deliverables may not be subcontracted without prior explicit written approval from the Commission/Agency. The beneficiaries must inform the coordinator — which must immediately inform the Commission/Agency — of any changes in the security context and — if necessary — request for Annex 1 to be amended (see Article 55).*

- 'EU-classified information' as background or results: (YES/NO)