



ELECTRONIC PARTNERING CATALOG ON ICT THEME



The EUINEC project, in cooperation with EIRC Consulting Private Limited (EIRC) and Dayananda Sagar Institutions (DSI) organised 1-day training on how to obtain funding from the European Commission and how to participate in European projects. The training is focused on ICT and Energy themes and will be held in Bangalore (India) the 2nd of February 2010.



The Catalogue will be presented during this event with the aim to facilitate the creation of partnership for future cooperation between Europe and India.

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ENG. RENATO AIELLO, INDESIT COMPANY S.P.A., ITALY

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Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input checked="" type="checkbox"/> 250 +	
Organisation type	<input type="checkbox"/> University	<input type="checkbox"/> Research Center	<input checked="" type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department	Innovation & Digital Design (IDD)				
Short description of your company/organization	Indesit Company is Europe's second biggest producer of home appliances by market share. It leads the market in Italy, the UK, Russia, Portugal, Romania, Bulgaria and the Ukraine and is one of the leaders in France, Poland, Turkey, the Czech Republic, Hungary and Greece. Founded in 1975 by the current chairman Vittorio Merloni and listed on the Milan stock exchange since 1987, the Group posted sales of €3.2 billion in 2008, having turned out 15 million appliances (washing machines, dryers, washer-dryers, dishwashers, fridges, freezers, ovens and hobs). Indesit Company operates through 16 production facilities (Italy, Poland, the UK, Russia and Turkey) and 24 commercial branches worldwide and has 17,000 employees. The Group's main brands are Indesit, Hotpoint-Ariston and Scholtès. Indesit Company is headquartered in Fabriano, Italy.				
PARTICIPANT					
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Engineer		
First name	Renato				
Last name	Aiello				
Position	Networking & Funding				
Areas of activity (Free keywords)	New ICT models and systems to intelligent energy consumption devices. Indesit Smart Appliances can collaborate with other home appliances in the domestic environment and they are connected to the outside world, to the smart grid.				
PROJECT DESCRIPTION					
Title of your research project in one sentence	New energy saving integrated system regarding white goods equipments				
Short description of project	The project aim is improving energy efficiency of white goods working about the appliance and in other hand on the entire system. Today the house are networked and this allow the exchange of more data and information. The project core is to have a full integration between appliances and system to obtain high efficiency and energy consuming optimization strategy.				
Description of expertise offered	Indesit has been pioneer in home automation even before 2000 year, with many relevant experiences. We can remember for instance the Margherita 2000.com (networked) washing machine, Leon@rdo (a precursor of inHome Displays), the PayXuse system, the				

	<p>revolutionary concept based on the leasing of the domestic appliance and the billing of its usage. Thanks to these experiences, investigated at a time when technology was limited and very expensive, we have now a strong competitive advantage over other companies in home automation in terms of know-how and intellectual property.</p> <p>Today ADSL networks reach most of the houses; new and advanced wireless local area communication technologies are available, characterized by low costs and high market penetration (such as Zigbee).</p> <p>Through all these technologies, the domestic appliance will not be any long 'stand alone' in the house, but begins to be part of a truly intelligent and integrated ecosystem: it is becoming a Smart Appliance.</p> <p>Indesit would like to give a strong contribution also to the evolving standards of communication between household appliances. For this reason, we recently joined the ZigBee Alliance, which brings together 250 companies dedicated to the development and implementation of this standard for wireless connectivity.</p> <p>Our appliances will thus be integrated into energy distribution networks (i.e. Smart Grid compliant to optimize energy usage and consumption) and Wide Area Networks, such as Internet and in home automation systems (i.e. Assistive System).</p>
<p>Description of requested partner expertise</p>	<p>Communication protocols & networking, energy management, FW/SW development</p>

DR. RICHARD ANTHONY, THE UNIVERSITY OF GREENWICH, UK

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Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input checked="" type="checkbox"/> 250 +	
Organisation type	<input checked="" type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department	Computer Science				
Short description of your company/organization	A British University active in advanced research and high quality higher education at degree and postgraduate levels.				
PARTICIPANT					
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Dr.		
First name	Richard				
Last name	Anthony				
Position	Reader in self-managing computer systems				
Areas of activity (<i>Free keywords</i>)	Autonomic computing, wireless sensor networks, embedded systems, renewable power sources for wireless sensor systems				
PROJECT DESCRIPTION					
Title of your research project in one sentence	Self-managing computer systems - applications in embedded systems and wireless sensor systems				
Short description of project	I am concerned with the development of autonomic computing techniques and technologies (pure research aspect) and the application of self-managing (self-configuring, self-organising) behaviours into a embedded systems and wireless sensor systems (applied research). I am also interested in smart power management techniques for wireless sensor systems, as well as renewable energy and 'scavenged energy' power for these systems.				
Description of expertise offered	Autonomic computing (including policy-based computing, utility functions, reinforcement learning, emergence). Embedded systems				
Description of requested partner expertise	Application domains and problems to which my work can be applied. Complementary technical skills leading to collaborative pure research. Opportunities to join and contribute to appropriate funding proposals				

VIRGINIA BALEA, NATIONAL INSTITUTE OF STATISTICS, ROMANIA

ORGANISATION DETAILS				
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Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input checked="" type="checkbox"/> 250 +
Organisation type	<input type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME <input checked="" type="checkbox"/> Other
Department	Structural business statistics directorate			
Short description of your company/organization	Official statistics in Romania is organized and coordinated by the National Institute of Statistics, specialized body of central general government, legal entity, subordinated to the Government. The main tasks of INS are: draws up the system of statistical indicators, the computation methodologies and the specific technologies and standards to obtain these indicators; organizes and manages the statistical surveys on economic and social phenomena and processes; collects, processes and stores data; disseminate the data.			
PARTICIPANT				
Gender	<input type="checkbox"/> Mr	<input checked="" type="checkbox"/> Ms	Title	
First name	VIRGINIA			
Last name	BALEA			
Position	Deputy Director			
Areas of activity (<i>Free keywords</i>)	methodological work concerning the survey for Information Society; implementation of EU regulations on services; analysis of the data coherence between annual data; analysis of data from annual surveys and Information Society survey.			
PROJECT DESCRIPTION				
Title of your research project in one sentence	Information Society Statistics			
Short description of project	The project focused on measuring the access and usage of ICT products by different industries and the impact of ICT usage. The project was focus on data collection, production and analysis of the data. Concerning data collection, the main activities were dedicated to design the survey tools (questionnaires and methodologies), to define the scope of the survey and to set up the list of enterprises which will be included in the survey (do draw the sample of enterprises), to delivery the questionnaire to the enterprises, organise the field work (data collection and technical assistance for the enterprises). After information has been collected or filled in on the paper questionnaires, using an IT tool developed in-house, data were entered in the database. The records in the data base have been checked and validated. The data has been proccesed and aggregated and then published.			
	I have subsequently worked for several years on methodological work concerning			

<p>Description of expertise offered</p>	<p>Information Society (IS) statistics. The expertise in Information Society statistics is related to the activities I did in the Statistical Institute to obtain data on this matter. This comprises organising and supervising the data collection, data analysis and publications. I developed the methodology and the statistical tools to collect data, check and validate the data, analyse the aggregates and draw the publication on ICT sector and ICT usage.</p> <p>In this context I have had an important contribution in the settlement the Information Society survey, in implementation of EU regulation concerning IS and data analysis for ICT sector.</p> <p>I took part in Eurostat and UNCTAD Working Groups on Information Society statistics and I had a couple of presentations on “Information Society statistics in Romania”.</p>
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PROF. KARLHEINZ BLANKENBACH, PFORZHEIM UNIVERSITY, GERMANY

ORGANISATION DETAILS					
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Employees	<input type="checkbox"/> 1-10	<input checked="" type="checkbox"/> 11-50		<input type="checkbox"/> 51 - 250	<input type="checkbox"/> 250 +
Organisation type	<input checked="" type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department	Electronics Engineering & Information Technology				
Short description of your company/organization	The Display Lab at Pforzheim University is dedicated to R&D on electronic displays. This covers display systems as well as display driving and interfacing as well as display measurements and evaluation of many display technologies. New systems and technologies incl. image enhancement is a major topic. We have expertise from numerous projects.				
PARTICIPANT					
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Prof. Dr.		
First name	Karlheinz				
Last name	Blankenbach				
Position	Academic Head of Display Lab				
Areas of activity (Free keywords)	Displays, LCD, OLED, LED, electrowetting, display metrology, display driving, image enhancement, local dimming, grey level expansion				
PROJECT DESCRIPTION					
Title of your research project in one sentence	New algorithms for reducing of power consumption and improvement of image representation on LED-backlighted LCDs and OLEDs				
Short description of project	The image quality and power consumption of modern LCDs and OLEDs can be enhanced by dedicated software. Gamma and histogram manipulation are well known methods. Combining this with display technologies (LED local dimming for LCDs etc.) both energy efficiency and image quality can be improved. Goal of the proposal is to compare and evaluated nowadays methods for the combination of energy consumption and image quality (new) and to improve those algorithms.				
Description of expertise offered	Knowlegde of display improvements and algorithms, displays for evaluation, measurement equipment vor verification				
Description of requested partner expertise	MATLAB, C++ for algorithms				

PROF. CATALIN BUIU, POLITEHNICA UNIVERSITY OF BUCHAREST, ROMANIA

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Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input checked="" type="checkbox"/> 250 +	
Organisation type	<input checked="" type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department	Automatic Control and Systems Engineering				
PARTICIPANT					
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Professor		
First name	Catalin				
Last name	Buiu				
Position	Head of Autonomous Robotics Laboratory				
Areas of activity (Free keywords)	Cognitive robotics, computational intelligence				
PROJECT DESCRIPTION					
Title of your research project in one sentence	Human - Swarm Interface Design and New Control Techniques for Swarms of Autonomous Mobile Robots				
Short description of project	<p>The proposed project aims to develop a human-swarm interface and a distributed intelligent control system for a swarm of mobile robots. The system as a whole would be able to perform tasks such as: searching and detection, handling and transportation of dangerous materials in uncertain and hazardous industrial environments. Scalability, flexibility and extensibility are a few of the properties that swarm control systems and their user interfaces must demonstrate. The proposed project's strategic objective in the context mainly of "human robot interfacing and safety" and secondly of "networked robots" research foci is to design and implement such systems which would be further adapted and used for industrial applications and environments. Three innovative approaches will be the core of this project: the use of Gravitational Points Method and of membrane computing for improved control of the swarm, and the development of a swarm-human interface.</p>				
Description of expertise offered	Mobile robots control, particle swarm optimization, membrane computing				
Description of requested partner expertise	Swarm intelligence, human-robot interface				

DR. DANIELA CAVALLONI, UNIVERSITY OF BOLOGNA, ITALY

ORGANISATION DETAILS					
Organisation name University of Bologna					
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Employees <input type="checkbox"/> 1-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> 51 - 250 <input type="checkbox"/> 250 +					
Organisation type <input checked="" type="checkbox"/> University <input type="checkbox"/> Research Center <input type="checkbox"/> Industry <input type="checkbox"/> SME <input type="checkbox"/> Other					
Department Physics					
Short description of your company/organization Reseach group working on semiconductor physics, expertize: physics of defects in semiconductors, semiconductor nanostructures...					
PARTICIPANT					
Gender <input type="checkbox"/> Mr <input checked="" type="checkbox"/> Ms Title Dr					
First name Daniela					
Last name Cavalcoli					
Position Senior Researcher- Lecturer					
Areas of activity (<i>Free keywords</i>) Photovoltaic technology, semiconductors, silicon, electrical characterization, scanning probe microscopy, thin film solar cells.					
PROJECT DESCRIPTION					
Title of your research project in one sentence Study of electronic properties of semiconducting materials and thin films for photovoltaic applications.					
Short description of project Understanding of the basic physical properties of mixed phase Si thin films (amorphous-micro and nanocrystalline) in order to optimize solar cell parameters. Study of light trapping processes.					
Description of expertise offered Knowledge of physical properties of defects in semiconductors, of semiconductor nanostructures. Expertise on different methods for electrical and microscopical characterization of semiconducting materials and devices.					
Description of requested partner expertise Growth of thin films, development of solar cells, Structural analyses by Transmission microscopy methods,					

DR. JEAN-BAPTISTE DE LA RIVIÈRE, IMMERSION, FRANCE

ORGANISATION DETAILS					
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Employees	<input type="checkbox"/> 1-10	<input checked="" type="checkbox"/> 11-50		<input type="checkbox"/> 51 - 250	<input type="checkbox"/> 250 +
Organisation type	<input type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input checked="" type="checkbox"/> SME	<input type="checkbox"/> Other
Department	Research & Development				
Short description of your company/organization	Immersion is the French leader of virtual reality, providing hardware devices and integrated solutions to well known companies and research centres. The company R&D department develops interaction and visualisation devices, proposing intuitive and innovative interaction techniques with 3D and virtual environments, and allowing comfortable visualisation of 3D or complex data. For instance, Immersion is developing a proprietary tactile technology, built the first 3D multitouch device and investigates numerous uses of such techniques.				
PARTICIPANT					
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Dr		
First name	Jean-Baptiste				
Last name	de la Rivière				
Position	Head of the R&D Department				
Areas of activity (Free keywords)	User input, input devices, 3D interaction, visualisation devices, immersive visualisation, stereo images, virtual environments				
PROJECT DESCRIPTION					
Short description of project	Immersion is interested in projects that include research on the way people interact with and visualise information, either by adapting existing visualisation and interaction solutions or by creating totally new interaction and visualisation schemes. The company is for instance convinced that many domains could benefit from Immersion own technologies such as tactile interaction or immersive video-projection.				
Description of expertise offered	A long experience in the virtual reality domain ensures Immersion a strong knowledge of the existing input and output devices that are related to 3D interaction, as well as strong relationships with many hardware manufacturers. The company RTD department also has the capability to develop, experiment and study innovative interaction and visualisation hardware solutions that would address specific requirements and constraints.				
Description of requested partner expertise	While Immersion has proved to be successful in the development of hardware devices, the company is looking for both end-user requirements, which could result in an innovative design of the interaction and/or visualisation techniques that their domain is used to, and software technology providers that could be able to support the development of the innovative application that would be associated to the hardware solution.				

DR. JOHANNES EDLINGER, VORARLBERG UNIVERSITY OF APPLIED SCIENCES (FACHHOCHSCHULE VORARLBERG - FHV), AUSTRIA

ORGANISATION DETAILS					
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Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input checked="" type="checkbox"/> 250 +	
Organisation type	<input checked="" type="checkbox"/> University	<input checked="" type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department	Research Centre for Microtechnology				
Short description of your company/organization	<p>The Fachhochschule Vorarlberg was founded in 1997 as a non-profit institution with the State of Vorarlberg as sole associate and was granted status as a university of applied sciences in October 1999, being among the first institutions of higher education in Austria to be awarded such a status.</p> <p>The University of applied sciences has four main areas of teaching and research: business administration, engineering/computer science, design, and social work. We have 3 Research Centres: Microtechnology, User-Centred Technologies, Product and Process Engineering, those already have a proven track record in creating solutions with over 100 companies and organizations worldwide and in acquiring extensive funding and grants.</p>				
PARTICIPANT					
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Dr.		
First name	Johannes				
Last name	Edlinger				
Position	Head of Research Centre for Microtechnology				
Areas of activity (<i>Free keywords</i>) Optics, Numerical Simulations, Optical Lithography, Dry Etching, Electroplating, Laser Ablaton, Sputtering, Thermal Oxidation, SEM,					
PROJECT DESCRIPTION					
Title of your research project in one sentence	CODERS - Components for Optical Decoding and Encoding for Routing of Signals				
Short description of project	CODERS project targets to develop a single cost-effective photonic encoding/decoding subsystem that can replace electronic components in both high-speed core networks and broadband access systems, reducing power-consumption and network complexity, increasing the overall spectral efficiency, protocol transparency and information throughput.				
Description of expertise offered	Years of experience in developing designs for PLC products. Fully equipped cleanrooms for first prototyping.				

DR. JUERGEN EHRENSBERGER, HEIG-VD, SWITZELAND

ORGANISATION DETAILS					
Organisation name HEIG-VD					
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Employees <input type="checkbox"/> 1-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> 51 - 250 <input checked="" type="checkbox"/> 250 +					
Organisation type <input checked="" type="checkbox"/> University <input type="checkbox"/> Research Center <input type="checkbox"/> Industry <input type="checkbox"/> SME <input type="checkbox"/> Other					
Department ICT					
Short description of your company/organization The School of Engineering and Business , Vaud (HEIG-VD) is a university of applied sciences located in the French speaking part of Switzerland. Its campus includes three sites with a total of about 2'000 students and a faculty of 160 professors. HEIG-VD's missions include: <ul style="list-style-type: none"> * Enable students to develop theoretical knowledge as well as practice oriented skills * Aim at excellence in applied research, technology and collaboration with the industry. * Actively promote the creation of new ventures, to foster technology transfer to the industry. 					
PARTICIPANT					
Gender <input checked="" type="checkbox"/> Mr <input type="checkbox"/> Ms Title Dr					
First name Juergen					
Last name Ehrensberger					
Position Professor					
Areas of activity (<i>Free keywords</i>) Information security, networking, multimedia, wireless networks, ubiquitous computing, mobile applications, software security, web services, virtual reality, content management, database systems, business intelligence, geoinformatics, enterprise systems, transmission systems, low-power radio transmission, embedded systems, powerlines communications.					
PROJECT DESCRIPTION					
Title of your research project in one sentence Collaborations with academic and industrial partners.					
Short description of project We are interested in establishing collaborations with Indian IT and Telecom companies for research collaborations, technology transfer and joint collaborations with Swiss and Indian companies. We are also interested in establishing academic partnerships with Indian universities for research collaborations and student/faculty exchange programs.					
For companies: through its excellent contact network of ICT companies in Switzerland,					

<p>Description of expertise offered</p>	<p>HEIG-VD provides a contact point for Indian companies wishing to establish collaborations with Swiss companies in the ICT sector, in particular in the French speaking part of Switzerland. HEIG-VD is specialized in applied research, technology transfer and creation of new ventures.</p> <p>For universities: HEIG-VD has active international research collaborations in many ICT areas. HEIG-VD also has active academic exchange programs, in particular several Summer University programs in ICT and Business.</p>
<p>Description of requested partner expertise</p>	<p>Indian IT and Telecom companies wishing to establish research or business collaborations with Switzerland.</p> <p>Indian universities wishing to establish research or academic exchange collaborations.</p>

DR. SATU EK, PICOSUN OY, FINLAND

ORGANISATION DETAILS					
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Employees	<input type="checkbox"/> 1-10	<input checked="" type="checkbox"/> 11-50		<input type="checkbox"/> 51 - 250	<input type="checkbox"/> 250 +
Organisation type	<input type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input checked="" type="checkbox"/> SME	<input type="checkbox"/> Other
Department					
Short description of your company/organization	Picosun is an international equipment manufacturer with a world-wide sales and service organization. We develop and manufacture Atomic Layer Deposition (ALD) reactors for micro- and nanotechnology applications. Picosun provides its customers with user-friendly, reliable and productive ALD process tools, which offer unique scalability from research to production. SUNALE ALD process tools are used by leading scientific institutions and companies across Europe, America and Asia.				
PARTICIPANT					
Gender	<input type="checkbox"/> Mr	<input checked="" type="checkbox"/> Ms		Title Dr.	
First name	Satu				
Last name	Ek				
Position	Project manager				
Areas of activity (<i>Free keywords</i>)	atomic layer deposition, ALD, ALD reactor manufacturer, thin film, solar photovoltaics, PV, solar cell, MEMS				
PROJECT DESCRIPTION					
Title of your research project in one sentence	All-inorganic nano-rod based thin-film solarcells (ROD-SOL)				
Short description of project	Thin film solar cells will dominate the photovoltaic market in the future and replace bulk silicon. Criteria for success of thin-film technologies in the long term are low cost, high efficiency, non-toxicity, abundance and durability. The ROD-SOL silicon nano-rod based solar cell material on glass fulfills most of these criteria with the exception of high efficiency. The targeted thin film solar cell processing of nanorods includes many materials optimization steps among which the most crucial are the doping and the transparent conductive oxide (TCO) deposition.				
Description of expertise offered	Picosun develops and manufactures equipment for industrial processing of the novel solar cell materials.				
Description of requested partner expertise	Expertise in solar cell technology.				

DR. ANNA FENSEL, FTW FORSCHUNGSZENTRUM TELEKOMMUNIKATION WIEN GMBH, AUSTRIA

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Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50	<input checked="" type="checkbox"/> 51 - 250	<input type="checkbox"/> 250 +	
Organisation type	<input type="checkbox"/> University	<input checked="" type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department	Networked Services				
Short description of your company/organization	FTW is a nationally leading and internationally acclaimed center for research and development of technologies for future communication systems. FTW was established in December 1998 for the purpose of carrying out Research and Development together with partners from academia and industry.				
PARTICIPANT					
Gender	<input type="checkbox"/> Mr	<input checked="" type="checkbox"/> Ms	Title Dr.		
First name	Anna				
Last name	Fensel				
Position	Senior Researcher				
Areas of activity (Free keywords)	green home, building automation, semantic technologies				
PROJECT DESCRIPTION					
Title of your research project in one sentence	SESAME (SEmantic SmArt Metering: Enablers for Energy Efficiency)				
Short description of project	The high-level societal goal of the project SESAME (http://sesame.ftw.at) is to facilitate home owners and building managers in saving energy within their environments and in optimizing their energy costs, while actively controlling and maintaining their preferred quality of living.				
Description of expertise offered	experts in placing consumer in charge of his/her energy consumption, energy efficient systems, sensors, reasoning, semantics, user interfaces				
Description of requested partner expertise	Case study or application partners, technology partners				

DR. ENG. MAURIZIO FERRARIN, FONDAZIONE DON CARLO GNOCCHI ONLUS, ITALY

ORGANISATION DETAILS				
Organisation name Fondazione Don Carlo Gnocchi Onlus				
Street * via Capecelatro, 66				
ZIP * 20148	City * Milan		Country * Italy	
Phone * +39-02-40308305			Fax +39-02-4048919	
Email * mferrarin@dongnocchi.it			Web	
Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input checked="" type="checkbox"/> 250 +
Organisation type	<input type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME
	<input checked="" type="checkbox"/> Other			
Department	Polo Tecnologico (Biomedical Technology Department)			
Short description of your company/organization	<p>Fondazione Don Gnocchi (FDG), with main seat in Milano, is a non-profit organisation, involved in the fields of health, rehabilitation, training and international cooperation. It holds 30 centres in 10 Italian regions, with more than 3500 beds and about 5000 operators employed. In 5 centres FDG performs an activity of scientific research and, in two of them, it has been recognized by the Italian Ministry of Health as "IRCCS" (research hospital of national interest) in the field of rehabilitation and, in particular, in the research lines of advanced technology, biotechnology, neuroscience and neurological, cardiological and pulmonary rehabilitation, child neuropsychiatry. A Biomedical Technology Department (Polo Tecnologico, formerly Centro di Bioingegneria) is present in the Foundation for more than 30 years, especially working in the field of biosensors and devices for rehabilitation. Within this centre some integrated laboratories have been set up in collaboration with the medical divisions and the biomolecular and imaging depts.</p> <p>FDG is and has been involved in European researches since the first framework programmes, both in technological, medical, biological and organisational issues. More than one hundred peer-reviewed scientific papers on international journals are produced every year by the FDG research community</p>			
PARTICIPANT				
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title PhD, DrEng	
First name	Maurizio			
Last name	Ferrarin			
Position	Research Coordinator - Neuromotor Area			
Areas of activity (<i>Free keywords</i>)	Biomedical Engineering, Rehabilitation Engineering, Human Movement Analysis, Functional Electrical Stimulation, Rehabilitation Robotics, Assistive Devices			
PROJECT DESCRIPTION				
Title of your research project in one sentence	Multi-dimensional approach to motor and cognitive rehabilitation in humans affected by Central Nervous System's pathologies.			
Short description of project	Development and application of protocols for human motion analysis in several filed: clinical decision making, outcome assessment, functional evaluation, ergonomics. Development and application of FES systems and robotics for motor recovery of paralysed			

	<p>patients (post-stroke, spinal cord lesion, multiple sclerosis). Development and application of technology for the assessment and rehabilitation of cognitive disturbances (computerised tests for attentive and visuo-motor exploratory skills, drawing, writing based on touch screen and tablet technology).</p>
<p>Description of expertise offered</p>	<p>Fully equipped human motion lab (3D kinematics, dynamometric platforms, wireless multichannel EMG system), software and modelling for biomechanics data analysis, expertise on development and application of Functional Electrical Stimulation (FES) systems, robotics in rehabilitation. Hardware and software for the acquisition and evaluation of drawing, writing, pointing, exploratory skills).</p>

PROF. HENRYK FIEDOROWICZ, INSTITUTE OF OPTOELECTRONICS, MILITARY UNIVERSITY OF TECHNOLOGY, POLAND

ORGANISATION DETAILS					
Organisation name Institute of Optoelectronics, Military University of Technology					
Street * Kaliskiego 2					
ZIP *	00-908	City *	Warsaw	Country *	Poland
Phone *			48226839430	Fax 48226668950	
Email *			hfiedorowicz@wat.edu.pl	Web http://www.ztl.wat.edu.pl/zoplzm	
Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50	<input checked="" type="checkbox"/> 51 - 250	<input type="checkbox"/> 250 +	
Organisation type	<input checked="" type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department	Laser-Matter Interaction Group				
Short description of your company/organization	The Institute of Optoelectronics (IOE) is an interdisciplinary academic research institute at the Military University of Technology in Warsaw with a mission to support research and education in the optoelectronics and lasers. The IOE is a leading research institution on laser development and application in Poland. The specific areas of research activities in the field include: laser optics and electronics, laser systems, laser-matter interactions, medical lasers, laser nanotechnology, laser ranging and sensing. The Laser-Matter Interaction Group (LMI) research interests cover interaction of high-power laser pulses with matter, laser plasmas, generation of x-ray and EUV radiation. The aim of the studies is to develop efficient, debrisless laser plasma x-ray and EUV sources for various applications in nanotechnology, including nanolithography, nanoimaging and nanoprocessing of materials.				
PARTICIPANT					
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Prof		
First name	Henryk				
Last name	Fiedorowicz				
Position	Director				
Areas of activity (Free keywords)	lasers, laser plasmas, x-ray and EUV technology, nanolithography, nanoprocessing, nanoimaging				
PROJECT DESCRIPTION					
Title of your research project in one sentence	Laser plasma EUV sources based on a gas puff target for application in nanotechnologies				
Short description of project	It was demonstrated that laser plasma EUV sources producing radiation in the extreme ultraviolet range from about a few nanometers to a few tens of nanometers are useful for applications in nanotechnology, including nanolithography, imaging with nanometer resolution, nanoprocessing materials, etc. However, conventional laser plasma EUV sources based on a solid target have serious debris production problem. To solve this problem a new double-stream gas puff target approach has been proposed. The target is formed by injection of high-Z gas (xenon, krypton, argon, etc.) into a hollow stream from				

	<p>low-Z gas (hydrogen and helium) using a double nozzle setup. The use of a gas puff target instead of a solid made possible to develop an efficient and debrisless laser plasma EUV source. Investigations on EUV emission from laser plasma sources with a double-stream gas puff target performed at various laboratories have shown efficient EUV production exceeding emissions from solid targets and a compact laser plasma EUV source has been developed for applications in for EUV lithography technologies. Conversion efficiency of the laser energy into EUV energy at 13.5 nm of about 1.6% was measured. The source has been successfully used in the measurements of optical characteristics of Mo/Si multilayer mirrors at 13.5 nm. With use of this source experiments on EUV ablation of materials have been performed and efficient micro- and nanoprocessing polymers, comparable with processing using synchrotron, was demonstrated for the first time. Recently, a new laser plasma EUV source, dedicated for processing polymers, has been developed in the frame of the EUREKA project. The source is equipped with unique EUV optical systems based on grazing incidence mirrors. The source has been used in the experiments on modification polymer surfaces by EUV ablation. Formation of micro- and nanostructures on the surface without degradation the bulk material was observed. Preliminary investigations on cell adhesion and proliferation have shown an alignment of CHO cells along the EUV produced structures. The results of the studies should be useful in biomedical engineering. In the future the EUV source will be used for imaging at 13 nm with nanometer resolution for actinic inspection of EUV masks and resists.</p>
<p>Description of expertise offered</p>	<p>laser-matter interactions, laser plasmas, laser plasma X-ray and EUV sources, EUV lithography</p>
<p>Description of requested partner expertise</p>	<p>nanoelectronics, nanophotonics, processing polymers</p>

BAERBEL FRANZEN, ABSINT ANGEWANDTE INFORMATIK GMBH, GERMANY

ORGANISATION DETAILS					
Organisation name AbsInt Angewandte Informatik GmbH					
Street * Science Park 1					
ZIP * 66123		City * Saarbruecken		Country * Germany	
Phone * +49-681-383600			Fax +49-681-3836020		
Email * info@absint.com			Web www.absint.com		
Employees	<input type="checkbox"/> 1-10	<input checked="" type="checkbox"/> 11-50		<input type="checkbox"/> 51 - 250	<input type="checkbox"/> 250 +
Organisation type	<input type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input checked="" type="checkbox"/> SME	<input type="checkbox"/> Other
Department					
Short description of your company/organization	<p>Founded in February 1998, AbsInt Angewandte Informatik GmbH is a spin-off from the Department of Compiler Construction and Programming Languages at Saarland University, Germany.</p> <p>AbsInt's team is composed of highly skilled computer science experts. Our close ties to Saarland University's Department of Computer Science and its numerous research institutes enable us to benefit from the latest research findings and to recruit highly trained personnel. Currently AbsInt has got about 36 employees.</p> <p>AbsInt is an SME focussed on the development of program analysis and optimization tools. AbsInt's product range includes tools for timing analysis, stack usage analysis, static program analysis and graph visualisation. The analysis tools are based on an abstract interpretation approach. They operate on executables for various processor architectures including modern micro-controllers with caches and complex pipelines. AbsInt's main products are aiT Worst-Case Execution Time Analyzer, the StackAnalyzer and the static run-time error analyzer Astrée. For its aiT WCET-Analyzer, AbsInt has been awarded the 2004 European Information Society Technology (IST) Prize.</p>				
PARTICIPANT					
Gender	<input type="checkbox"/> Mr	<input checked="" type="checkbox"/> Ms		Title	
First name	Baerbel				
Last name	Franzen				
Position	Marketing&Sales				
Areas of activity (<i>Free keywords</i>)	program analysis, execution time analysis, analysis of stack usage, analysis of run-time errors, WCET, safety, validation				
PROJECT DESCRIPTION					
Title of your research project in one sentence	Validating the correct timing behavior of safety-critical applications				
Short description of project	AbsInt's approach to verify that safety-critical programs always react fast enough is the first automatic method for ensuring the correct timing behavior of software in embedded systems. This is required for any kind of safety-critical applications. One example is the				

	<p>airbag control in modern cars: igniting the airbag is controlled by software that is executed by a microprocessor embedded in the car. Blowing up the airbag too late in an accident can have disastrous consequences.</p> <p>Using aiT WCET Analyzer pays off in multiple ways. The widely-used but error-prone and time-consuming methods based on time-stopping can be shortened or replaced. This enhances system safety and contributes to reducing system cost. The precise bounds on the execution time enable a better system utilization without compromising safety. For the end user this leads to lower prices at enhanced safety.</p> <p>Another important goal when developing critical software is to prove that no run-time errors can occur. Software testing can be used to detect errors, but since usually no complete test coverage can be achieved, it cannot provide guarantees. Astrée is a static program analyzer that proves the absence of run-time errors (RTE) in safety-critical embedded applications written or automatically generated in C. Astrée analyses whether the C programming language is used correctly and whether there can be any run-time errors during any execution in any environment.</p>
<p>Description of expertise offered</p>	<p>AbsInt provides sophisticated software products and advanced services in the areas of compiler technology, static program analysis and optimization.</p> <p>AbsInt's tools are designed to</p> <ul style="list-style-type: none"> • Enhance software safety • Speed up time-to-market • Lower testing and validation costs • Improve software efficiency to reduce system costs for embedded, real-time, safety-critical applications <p>AbsInt's tools are based on a generic and generative framework which allows an extremely quick, sound and flexible response to customer needs. This has been more than proven in a series of successful projects and by outstanding customer satisfaction.</p>
<p>Description of requested partner expertise</p>	<p>AbsInt is a technology provider. Typical partners are users of this technology (automotive and avionics industries companies).</p>

PROF. CHRISTIAN FREKSA, UNIVERSITY OF BREMEN, GERMANY

ORGANISATION DETAILS					
Organisation name University of Bremen					
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Phone * +49 421 218 64231			Fax +49 421 218 98 64230		
Email * freksa@uni-bremen.de			Web www.cosy.informatik.uni-bremen.de		
Employees <input type="checkbox"/> 1-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> 51 - 250 <input checked="" type="checkbox"/> 250 +					
Organisation type <input checked="" type="checkbox"/> University <input type="checkbox"/> Research Center <input type="checkbox"/> Industry <input type="checkbox"/> SME <input type="checkbox"/> Other					
Department Informatics + Transregional Collaborative Research Center SFB/TR 8 Spatial Cognition					
Short description of your company/organization The University of Bremen is a research university with particular strengths in informatics, cognitive systems, robotics, and their applications. It is the site of the headquarters of the SFB/TR 8 Spatial Cognition, a research center run jointly with the University of Freiburg. The working language is English. Starting with academic and student exchange, we also welcome / encourage the possibility of institutional involvement at the level of MOU's with our group to enable flexible long-lasting collaborations and exchange.					
PARTICIPANT					
Gender		<input checked="" type="checkbox"/> Mr		<input type="checkbox"/> Ms	
Title Prof					
First name Christian					
Last name Freksa					
Position Professor					
Areas of activity (<i>Free keywords</i>) Spatial and temporal reasoning, cognitive systems, knowledge representation, artificial intelligence, spatial cognition, robotics, design, cognitive modelling					
PROJECT DESCRIPTION					
Title of your research project in one sentence		Spatial Cognition: Reasoning, Action, Interaction			
Short description of project		The interdisciplinary Transregional Collaborative Research Center Spatial Cognition: Reasoning, Action, Interaction has been established by the Deutsche Forschungsgemeinschaft (DFG) on 01 January 2003 at the Universities Bremen and Freiburg. Spatial Cognition is concerned with the acquisition, organization, utilization and revision of knowledge about spatial environments, be it real or abstract, human or machine. Research issues range from the investigation of human spatial cognition to mobile robot navigation. The goal of the SFB/TR 8 is to investigate the cognitive foundations for human-centered spatial assistance systems.			
Description of expertise offered		Representation and reasoning with incomplete, imprecise, lean, coarse, approximate, fuzzy, and conflicting knowledge about physical environments. Particular emphasis is on the development of 'cognitively adequate' qualitative approaches in spatial and temporal			

	<p>domains. The interdisciplinary research group employs formal and computational approaches to knowledge representation, designs computer models for simulation studies, and carries out autonomous robotics experiments using diverse intelligent technologies.</p>
<p>Description of requested partner expertise</p>	<p>Spatio-temporal application domains that require analysis and synthetic treatment. Knowledge representation and reasoning with particular interest in qualitative spatio-temporal representations and abduction as a mode of reasoning. Application of robotics research including 'machine learning' for intelligent assistive systems, creating robotic mechanisms incorporating sensors and other embedded technology to enable high-level human assistance with natural interaction, development of hybrid qualitative-quantitative AI architectures, and computer-human interaction from the viewpoint of smart environments and intelligent (spatial) design assistance systems.</p>

PROF. ANTONIOS GASTERATOS, DEMOCRITUS UNIVERSITY OF THRACE, GREECE

ORGANISATION DETAILS					
Organisation name Democritus University of Thrace					
Street * 12 Vasilisis Sophia str					
ZIP * 67100		City * Xanthi		Country * Greece	
Phone * +302541079359			Fax +302541079343		
Email * agaster@pme.duth.gr			Web http://robotic.pme.duth.gr		
Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input checked="" type="checkbox"/> 250 +	
Organisation type	<input checked="" type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department	Production and Management Engineering				
Short description of your company/organization	The Democritus University of Thrace (DUTH) was founded in 1973, with the School of Laws in Komotini, Greece and the School of Engineering in Xanthi. Today it consists of 18 departments in four different towns of Thrace, Northeastern Greece. The School of Engineering is located in Xanthi and consists of five Departments. The School is particularly well equipped with computer facilities and possesses an integrated computing centre. The computer and network administration centre offers all modern network services. The School of Engineering has well equipped laboratories and halls for teaching and workshop facilities.				
PARTICIPANT					
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Prof		
First name	Antonios				
Last name	Gasteratos				
Position	Assistant Professor				
Areas of activity (Free keywords)	robotics, vision				
PROJECT DESCRIPTION					
Title of your research project in one sentence	The role of perception in industrial automisation.				
Short description of project	The proposed work will be carried out at the Department of Production and Management (DPM). The DPM was established in 2000, in Xanthi. Today the Department has 13 permanent members of academic staff and approximately 490 undergraduate students and 56 doctoral ones. Of the objectives of DPM is the programming of the production process; the research, design and automatisation of the production; decision making and management. The Laboratory of Robotics and Automation, treats the educational and research activities of automation, robotics, vision and intelligent systems. Within this Laboratory the Robotics and Cognitive Systems Group is to perform and promote research in application problems that rise in the area of robotics, computer vision, multimodal integration, image analysis and understanding, quality control, visual surveillance, intelligent sensory networks.				
Description of expertise	The tools that the group uses to expand the front of the science and the corresponding research areas of interest are:				

<p>offered</p>	<ul style="list-style-type: none"> • Artificial Vision (including Machine Vision, Cognitive Vision and Robot Vision) • Intelligent Systems (such as Fuzzy Systems and Artificial Neural Network) • Sensor Data Fusion • Pattern Recognition <p>Antonios Gasteratos is an Assistant Professor of "Mechatronics and Artificial Vision" at the DPM, DUTH, Greece. He teaches the courses of Robotics, Automatic Control Systems, Measurements Technology and Electronics. He holds a Diploma and a PhD from the Department of Electrical and Computer Engineering, DUTH, Greece, 1999. During 1999-2000 he was a Post-Doc Fellow at the Laboratory of Integrated Advanced Robotics (LIRA-Lab), DIST, University of Genoa, Italy. He has served as a reviewer to numerous of scientific journals and international conferences. He has also served as peer reviewer for several funding schemata. His research interests are mainly in mechatronics and in robot vision. He has published one textbook, 3 book chapters and 60 scientific papers. He is a member of the IEEE, IAPR, ECCAI, EURASIP and the Technical Chamber of Greece (TEE). He has participated in many European and national funded projects. He is/was principal investigator in RESCUER (FP6-IST-511492), ACROBOTER (FP6-IST-2006-045530, VIEW-FINDER (FP6-IST-2006-045541) and INFRA (FP7-ICT-SEC-2007-1-22????????????coordinating??the??efforts??of??the??DUTH?s??team??Also??he??coordinated?????Greek??national??projects??Dr??Gasteratos??is??a??member??of??EURON??euCognition??and??I??PROMS??European??networks??He??has??served??as??the??G eneral??Chair??for??the??International??Conference??on??Computer??Vision??Systems ??□ICVS??</p> <p>??????</p>
<p>Description of requested partner expertise</p>	<p>robotics, artificial intelligence, end-user</p>

PROF. SERGIO JESUS, CENTRO DE INVESTIGAÇÃO TECNOLÓGICA DO ALGARVE (CINTAL), PORTUGAL

ORGANISATION DETAILS				
Organisation name Centro de Investigação Tecnológica do Algarve (CINTAL)				
Street * Universidade do Algarve, Campus de Gambelas				
ZIP * 8005	City * FARO		Country * PORTUGAL	
Phone * +351 289 244422			Fax +351 289864258	
Email * cintal@ualg.pt			Web www.cintal.ualg.pt	
Employees	<input type="checkbox"/> 1-10	<input checked="" type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input type="checkbox"/> 250 +
Organisation type	<input type="checkbox"/> University	<input checked="" type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME <input type="checkbox"/> Other
Department	Signal Processing Laboratory (SiPLAB)			
Short description of your company/organization	<p>CINTAL - Centro de Investigação Tecnológica do Algarve, is a non profit private association, created in 1990, with the following main objectives: R&D in the areas of science and technology; higher education and formation; services and contracting in relation with the industry.</p> <p>As a contract research organization CINTAL provides a link within the innovation chain between fundamental research as a source of knowledge and practical application as the use of knowledge which can be commercially exploited.</p> <p>CINTAL is hosted at the University of Algarve, Campus de Gambelas, and most of its activities are initiated by professors and laboratories of the University, often in relation with industrial partners or other University laboratories either in Portugal or in the EU.</p>			
PARTICIPANT				
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Prof	
First name	Sergio			
Last name	Jesus			
Position	President Administration Board			
Areas of activity (Free keywords)	underwater acoustic applications, marine technology			
PROJECT DESCRIPTION				
Title of your research project in one sentence	Underwater acoustic network (UAN)			
Short description of project	UAN objective is to conceive, develop and test at sea an innovative wireless network integrating submerged, terrestrial and aerial sensors for the protection of off-shore and coastline critical infrastructures.			
Description of expertise offered	Development of underwater acoustic wireless devices and systems, sonar and acoustic tracking, ocean acoustic tomography and acoustic ocean sensing technologies			
Description of requested partner expertise	Development of mobile platforms for ocean sensing: AUVs, gliders, etc			

DR. NICOS KOMNINOS, URENIO - URBAN AND REGIONAL INNOVATION RESEARCH UNIT, GREECE

ORGANISATION DETAILS					
Organisation name URENIO - Urban and Regional Innovation Research Unit					
Street * Aristotle University of Thessaloniki P.O. Box 491					
ZIP * 54124	City * Thessaloniki			Country * Greece	
Phone * 00302310489304			Fax 00302310472240		
Email * sotzig@urenio.org			Web www.urenio.org		
Employees	<input type="checkbox"/> 1-10	<input checked="" type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input type="checkbox"/> 250 +	
Organisation type	<input type="checkbox"/> University	<input checked="" type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department	Architecture				
Short description of your company/organization	<p>The URBAN AND REGIONAL INNOVATION Research Unit (URENIO) is a university laboratory for the promotion of research and supply of scientific and technological services. URENIO is part of the Department of Urban and Regional Planning and Development in the Faculty of Engineering, Aristotle University of Thessaloniki.</p> <p>The initial research focus of URENIO concerned the technological development of cities and regions and their ability to create environments supporting R&D, human skills, and innovation. Interest in the contribution of technological innovation to urban and regional development peaked after 1980 by economic geography research on industrial districts of central Italy, new industrial spaces in the west coast of the USA, and the planning of large technopoles in Japan. These new forms of agglomeration brought on the surface a series of phenomena with major impact on urban and regional development, such as the geographical concentration of innovative activities, the role of R&D and innovation in competitiveness and growth, the drivers of innovative agglomerations, the new divides and unevenness in terms of knowledge and innovation. Since then, technology and innovation have been a standard point of reference in the development and planning of cities and regions.</p> <p>The current research emphasis, however, is on intelligent cities and regions. Intelligent cities are 3-layer systems of innovation, combining (1) innovative clusters, (2) innovation and technology learning institutions, and (3) digital innovation environments. Intelligent cities constitute a discrete category of intelligent environments created by the agglomeration of creativities, smaller systems of innovation that operate within cities (technology districts, technology parks, innovation poles, innovative clusters), and digital networks and online services. Their added value is in the ability to bring together three forms of intelligence (human intelligence of the city's population; collective intelligence of institutions supporting learning and innovation; artificial intelligence of digital networks and online services) and assure higher innovation performance.</p> <p>URENIO is mainly involved in competitive projects from the European R&D Framework Programmes (FP) and the Innovative Actions of the European Regional Development Fund. The Unit took part in numerous projects funded by national and international research institutions and the European Commission. URENIO is mainly known for its research record in the field of 'regional innovation'. Research carried out in the Lab is acknowledged by leading organizations in this field. It is among the few academic organizations promoting research in the field of intelligent cities, having introduced the concept of intelligent cities as physico-virtual territorial systems of innovation and most advanced innovative agglomerations.</p>				
PARTICIPANT					
Gender	<input type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Dr		

First name	Nicos
Last name	Komninos
Position	Head
Areas of activity (<i>Free keywords</i>)	Intelligent cities, smart cities
PROJECT DESCRIPTION	
Title of your research project in one sentence	Open Platform for Digital Cities
Short description of project	<p>The transformation of cities to digital is no longer a future project but has begun to be implemented in various cities and regions around the world, making it one of the main advantages of these cities in the Knowledge Economy. An ever increasing number of Local Authorities have begun to implement applications to:</p> <ul style="list-style-type: none"> • facilitating citizens' lives, simplifying procedures, reducing the time and transaction costs. • to improve the economic situation offering them an alternative source of costs. <p>These applications are available through wireless and wired broadband networks.</p>
Description of expertise offered	Intelligent content management
Description of requested partner expertise	ICT for smart cities

DR. TWAN KORTHORST PHOENIX SOFTWARE , NETHERLANDS

ORGANISATION DETAILS				
Organisation name Phoenix Software				
Street * PO Box 545				
ZIP *	7500 AM	City *	Enschede	Country * the Netherlands
Phone *	+31 53 4836460		Fax	+31 53 4337415
Email *	info@phoenixbv.com		Web	www.phoenixbv.com
Employees	<input type="checkbox"/> 1-10	<input checked="" type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input type="checkbox"/> 250 +
Organisation type	<input type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input checked="" type="checkbox"/> SME <input type="checkbox"/> Other
Department				
Short description of your company/organization	Phoenix Software supports more than 120 companies and institutes worldwide to improve quality, reduce time to market, enhance research and automate micro and nano technology fabrication by offering a unique fully integrated mask layout, process flow design and simulation environment and the only dedicated Manufacturing Execution System and Technology Knowledge Base for the industry: The Living Database.			
PARTICIPANT				
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title	
First name	Twan			
Last name	Korthorst			
Position	CEO			
Areas of activity (<i>Free keywords</i>)	Phoenix Software is developing, reselling and supporting advanced software tools for institutes and companies active in the field of micro and nanotechnology. With a very strong background in integrated photonics, new application fields are added to the product portfolio. This portfolio covers all stages of research, product development and manufacturing of micro and nanotechnology devices. Mask and chip layout, process flow design, advanced simulations at sub-system and component level and a technology knowledge base solution to improve the learning cycle in MNT research and development as well as a manufacturing execution system to optimize manufacturing sites.			
PROJECT DESCRIPTION				
Title of your research project in one sentence	improved software tools for the integrated product creation process for micro and nano technologies			
Short description of project	creating advanced mechanisms to incorporate fabrication tolerances into the whole design cycle for MNT products and devices			
Description of expertise offered	strong knowledge of micro and nanotechnologies in general and the creation and implementation of software tools in particular			
Description of requested partner expertise	software algorithms for multi parameter optimizing routines			

DR. XAVIER LEINEKUGEL, CNRS & UNIVERSITY BORDEAUX 1&2, FRANCE

ORGANISATION DETAILS					
Organisation name CNRS & University Bordeaux 1&2					
Street * Av des Facultes					
ZIP * 33405		City * Talence		Country * France	
Phone * +33 609 555 339			Fax		
Email * xlk1@free.fr			Web http://xavierlkg.free.fr/		
Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50		<input type="checkbox"/> 51 - 250	<input checked="" type="checkbox"/> 250 +
Organisation type	<input checked="" type="checkbox"/> University	<input checked="" type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Departmen	Neurosciences				
Short description of your company/organization	Academic Research				
PARTICIPANT					
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms		Title Dr	
First name	Xavier				
Last name	Leinekugel				
Position	Team leader				
Areas of activity (<i>Free keywords</i>)	neuronal networks, cortex, inhibition, brain rhythms, synaptic plasticity				
PROJECT DESCRIPTION					
Title of your research project in one sentence	Emergence and functions of cortical cell assemblies in adult and immature rats and mice				
Short description of project	Sensory and cognitive functions rely on the coordinated activation of large neuronal ensembles ("cell assemblies") distributed among different brain areas and stabilized by synaptic plasticity. Using electrophysiological recordings from many neurons at the same time, we try to understand how local microcircuits are functionally organized, interact and participate in various cognitive behaviors. Recording from immature animals, we also investigate the effects of neuronal activity on the building of cortical circuits during development.				
Description of expertise offered	Using massive parallel electrophysiological recording by a combination of extracellular (32 recording sites and more : tetrodes, Michigan and home made multisite probes...) and intracellular (sharp and patch clamp with up to 4 electrodes simultaneously) techniques in different preparations (rats and mice, in vitro and in vivo, adults and neonates), we simultaneously record from a few tens of individually identified neurons during various cortical patterns (theta, gamma, Sharp Waves, slow oscillations / Up and Down states, sleep spindles...) and behaviours (exploration, sleep, epileptic discharges...). In vitro recordings using similar approaches allow unprecedented opportunities for the examination of mono- and poly-synaptic interactions within localized microcircuits.				
Description of requested partner expertise	Signal processing, matlab,				

DR. MILKO MARINOV, UNIVERSITY OF RUSE, BULGARIA

ORGANISATION DETAILS					
Organisation name University of Ruse					
Street * 8 Studentska Str					
ZIP * 7017		City * Ruse		Country * Bulgaria	
Phone * +359 88 999 6793			Fax +359 82 845 708		
Email * MMarinov@ecs.ru.acad.bg			Web http://www.ecs.ru.acad.bg/index.php?cv=cv_mmarinov&lng=uk		
Employees					
<input type="checkbox"/> 1-10		<input type="checkbox"/> 11-50		<input type="checkbox"/> 51 - 250	
<input checked="" type="checkbox"/> 250 +					
Organisation type					
<input checked="" type="checkbox"/> University		<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department Dept. of Computer Systems & Technologies (www.ecs.ru.acad.bg)					
Short description of your company/organization University of Ruse is a state higher education institution. More than 9000 students, including about 450 international students and 150 PhD students, 450 professors, associate professors and assistant professors and around 350 support staff belong to the community of the University. (More information at www.ru.acad.bg)					
PARTICIPANT					
Gender					
<input checked="" type="checkbox"/> Mr		<input type="checkbox"/> Ms		Title Dr	
First name Milko					
Last name Marinov					
Position Associate Professor					
Areas of activity (<i>Free keywords</i>) Distributed database systems; Knowledge-based systems; Object-oriented database systems; Deductive database systems; Query processing; Knowledge-based distributed information systems					
PROJECT DESCRIPTION					
Title of your research project in one sentence DIGITAL ENVIRONMENT HOME ENERGY MANAGEMENT SYSTEM (DEHEMS)					
Short description of project The main objective of DEHEMS is to support households to reduce their energy usage through better management and analysis of their energy consumption. The first and fundamental step in achieving this goal is to have devices for monitoring the energy consumption of household appliances. Data from different energy meter systems and supporting sensors e.g. for gas and electricity, will be analysed against business intelligence on target efficiency, average efficiency rates and projected environmental conditions to provide practical information to the householder in a 'green dashboard' accessible online. DEHEMS uses monitored energy consumption data to provide live feedback to household on their energy consumption and provide advice to household on efficient use of energy. Such functionality requires a large amount of energy consumption data of households to be stored and analyzed.					
Description of expertise offered Development of distributed data warehouse and time series database. This database stores the raw time series data that is coming from each of the households. As well as the ability to store data streamed through the data capture engine, it will provide query services to allow data to be retrieved for analysis, primarily by the Data Extraction Engine.					

PROF. GIORIA MENEGAZ, UNIVERSITY OF VERONA, ITALY

ORGANISATION DETAILS					
Organisation name UNIVERSITY OF VERONA					
Street * STRADA LE GRAZIE 15					
ZIP * 37134		City * VERONA		Country * ITALY	
Phone * +39 045 802 7809			Fax +39 045 802 7068		
Email * gloria.menegaz@univr.it			Web http://www.di.univr.it/dol/main?ent=persona&id=4526		
Employees					
<input type="checkbox"/> 1-10		<input type="checkbox"/> 11-50		<input type="checkbox"/> 51 - 250	
<input checked="" type="checkbox"/> 250 +					
Organisation type					
<input checked="" type="checkbox"/> University		<input type="checkbox"/> Research Center		<input type="checkbox"/> Industry	
<input type="checkbox"/> SME		<input type="checkbox"/> Other			
Department COMPUTER SCIENCE					
Short description of your company/organization					
The University of Verona was founded in 1982 . It consists of 8 Faculties organized in 15 Departments. It features 6 Graduate Schools, about 870 Faculty members, about 680 Administrative staff members and 22000 students. The Dept. of Computer Science encloses different areas the most relevant ones being Vision, Image and Sound Processing, Computational models and bioinformatics, Biotechnologies, Artificial Intelligence and, Robotics , Basic and applied physics using Synchrotron Light, Databases and Information Systems, Electronic Systems Design (ESD), Languages ,Logic and Formal methods and Mathematics. The turnover is about 1.5Meuros and coordinates and participates to many EC funded projects.					
PARTICIPANT					
Gender					
<input type="checkbox"/> Mr		<input checked="" type="checkbox"/> Ms		Title Prof. Dr.	
First name Gloria					
Last name Menegaz					
Position Associate Professor					
Areas of activity (Free keywords) Image processing, medical imaging, computer vision, image perception					
PROJECT DESCRIPTION					
Title of your research project in one sentence					
Imaging and Perception: linking image processing, perception and cognitive psychology					
Short description of project					
The project aims at blending the approaches, methodologies and know-how of image processing, vision and cognitive sciences to develop a novel approach to imaging accounting for human factors. The main field of application is medical imaging (presurgical planning, computer aided diagnosis, image analysis and interpretation, validation and performance analysis) and social signalling (modeling of human behavior as observed by digital cameras in controlled and uncontrolled conditions).					
Description of expertise offered					
The Vision, Image and Sound Processing (VIPS) group consists of one Full Professor, three Associate Professors and three full time researchers. VIPS group has a proved expertise in the fields of medical imaging, image processing (still pictures and video), pattern recognition, computational vision (investigating and modeling visual perception by psychophysics) and computer graphics.					
Description of requested partner expertise					
The partner should hold a good expertise in either of the following fields: (neuro)surgery, radiology, cognitive or experimental psychology, minimally invasive surgery, and medical robotics. Collaborations could also be envisioned with partners having the same expertise as VIPS.					

PROF. GIORGIO METTA, ITALIAN INSTITUTE OF TECHNOLOGY, ITALY

ORGANISATION DETAILS					
Organisation name Italian Institute of Technology					
Street * Via Morego, 30					
ZIP * 16163		City * Genoa		Country * Italy	
Phone * +39 320 4218836			Fax +39 010 7170817		
Email * giorgio.metta@iit.it			Web http://www.iit.it		
Employees <input type="checkbox"/> 1-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> 51 - 250 <input checked="" type="checkbox"/> 250 +					
Organisation type <input type="checkbox"/> University <input checked="" type="checkbox"/> Research Center <input type="checkbox"/> Industry <input type="checkbox"/> SME <input type="checkbox"/> Other					
Department Robotics, Brain and Cognitive Sciences					
Short description of your company/organization The Fondazione Istituto Italiano di Tecnologia (IIT) - Italian Institute of Technology is a government sponsored Foundation created in 2003 to promote excellence in research, technological development and training within a national and international context. IIT cooperates with both academic institutions and private organizations, fostering through these partnerships scientific development, technological advances and training in high technology IIT has a large international research community with over 350 researchers working on four synergetic and interdisciplinary platforms – Robotics, Neurosciences, Nanobiotechnologies, and Drug Discovery & Development					
PARTICIPANT					
Gender		<input checked="" type="checkbox"/> Mr		<input type="checkbox"/> Ms	
Title Prof.					
First name Giorgio					
Last name Metta					
Position Senior Researcher					
Areas of activity (<i>Free keywords</i>) Robotics and Cognitive Systems					
PROJECT DESCRIPTION					
Title of your research project in one sentence		iCub, humanoid robots for studying artificial cognitive systems. www.icub.org or www.cognitivehumanoids.eu			
Short description of project		We developed a complete robotic platform shaped as a humanoid child called iCub (approximately 1m tall) together with control and supporting software. Our aim is to make the iCub the platform of choice for research on Cognitive Systems. For this reason, we licensed the iCub and its accompanying software as Open Source (GPL). The iCub is now spread across Europe, 15 copies have been built and more are planned for the near future. We would like to continue using the iCub on research projects and are starting to form connections with partners in US and Japan to work on the common topic of integration & interoperability on one side, and the construction of artificial cognitive systems on the other.			
Description of expertise offered		Robotics, Cognitive Systems, Artificial Intelligence, Machine learning			
Description of requested partner expertise		Any relevant to research in Artificial Cognitive Systems			

PROF. CORRADO PRIAMI, THE MICROSOFT RESEARCH - UNIVERSITY OF TRENTO COSBI, ITALY

ORGANISATION DETAILS					
Organisation name	The Microsoft Research - University of Trento CoSBI				
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Phone *	+390461282811		Fax	+390461282809	
Email *	info@cosbi.eu		Web	www.cosbi.eu	
Employees	<input type="checkbox"/> 1-10	<input checked="" type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input type="checkbox"/> 250 +	
Organisation type	<input type="checkbox"/> University	<input checked="" type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department					
Short description of your company/organization	Research centre focused on the implementation of new conceptual tools to perform analysis and modelling of biological systems to enhance the quality of life and the ICT field				
PARTICIPANT					
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Professor		
First name	Corrado				
Last name	Priami				
Position	President & CEO				
Areas of activity (Free keywords)	Programming languages, Simulation, Algorithmic Systems Biology, Biotech, pharma, agro-food, healthcare, environment				
PROJECT DESCRIPTION					
Title of your research project in one sentence	Developing and distributing key enabling technology based on programming language design for biotech, pharma, healthcare, environment				
Short description of project	<p>We help grow a new kind of scientist that, empowered with novel conceptual and computational tools smoothly connecting models and experiments, will discover and better understand fundamental biological principles at different levels (from molecular to ecological systems) and thereby construct a brighter future for the quality of our lives and our environment.</p> <p>Our objectives.</p> <ul style="list-style-type: none"> - The design and development of an integrated artificial plug-in based biological laboratory connecting computational modeling with experiments and built on top of a biology programming language to experiment on the spatial and temporal dynamics of biological systems as well as on their evolution with new conceptual and computational tools that can answer new relevant questions. - Predictive models of multi-level, multi-component biological systems at population level interacting internally and externally with the environment and other systems. - Large dissemination of our new conceptual/computational tools in the life sciences 				

	<p>community.</p> <p>- Definition and implementation of new languages and bio-inspired paradigms that enhance programming and software development techniques in computer science applications characterized by complexity and interactions between components.</p> <p>Our mission. To contribute to the future of science through connecting models and experiments by means of new conceptual and computational tools integrated in a user-friendly environment equipped with templates of major biological components for drag-and-drop modeling of (artificial) organisms or populations and used by a large part of life scientists to predict the behavior of multi-level, multi-scale biological systems in a modular, compositional, scalable and executable manner.</p>
<p>Description of expertise offered</p>	<p>programming languages, modelling of systems, static analysis, development, visualization</p>
<p>Description of requested partner expertise</p>	<p>Biotech, pharma, healthcare, environment</p>

PROF. ANNA PIOTROWSKA, INSTITUTE OF ELECTRON TECHNOLOGY, POLAND

ORGANISATION DETAILS					
Organisation name Institute of Electron Technology					
Street * Al. Lotnikow 32/46					
ZIP * 02-668		City * Warsaw		Country * Poland	
Phone * 48225487940			Fax 48228470631		
Email * ania@ite.waw.pl			Web http://www.ite.waw.pl		
Employees		<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input checked="" type="checkbox"/> 250 +
Organisation type		<input type="checkbox"/> University	<input checked="" type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME
Department	Micro- and Nanotechnology of Wide Bandgap Semiconductors				
Short description of your company/organization	<p>The Institute of Electron Technology (ITE) is a major Polish research centre with the primary focus on semiconductor micro- and nanotechnology.</p> <p>The fundamental goal of ITE is to conduct basic and applied research in the area of microelectronics, semiconductor optoelectronics and micromechanics as well as characterisation of semiconductor materials and structures. The Institute complies with the PN-EN ISO 9001:2001 standard in these areas.</p> <p>The basic statutory activity of the Institute is financed by the State Committee for Scientific Research. Additional funding of research is provided on competitive basis in the form of grants for research teams and individual researchers. Also, ITE research teams actively participate in European consortia which execute projects supported by the EU Research Framework Programmes.</p> <p>The applied research led by ITE is focused on meeting the demand of the industry for new, advanced and innovative technologies and products in the field of Information Society Technologies. ITE develops and sells market products such as devices, services and intellectual property rights to domestic and foreign customers.</p> <p>ITE is also involved in educational and training activities for Polish and foreign Ph.D. students and engineers. The Institute is entitled to award Ph.D. and D.Sc. degrees, both in the field of semiconductor electronics.</p>				
PARTICIPANT					
Gender		<input type="checkbox"/> Mr	<input checked="" type="checkbox"/> Ms	Title Prof.	
First name		Anna			
Last name		Piotrowska			
Position		Head of the Department			
Areas of activity (Free keywords)		Processing of wide bandgap semiconductor materials, high power and high frequency electronic s, short wavelengths; processing of IR II-VI and III-V semiconductors, photovoltaics.			
PROJECT DESCRIPTION					
Title of your research project in one sentence		Novel technologies of multifunctional materials and structures for nanoelectronics, photonics, spintronics, photovoltaics, and sensor techniques			

<p>Short description of project</p>	<p>The Project is aiming at the development of new technological solutions enabling to fabricate novel semiconductor devices based on wide band gap materials, in particular GaN and related semiconductors, ZnO and related semiconductors and SiC. Functional thin-film structures playing the role of ohmic contacts, Schottky contacts, metallization, gate dielectrics and passivating coatings will be made basing on four groups of materials: thermally stable oxides, nitrides, carbides and borides.</p> <p>The following techniques are being in use to material growth: MBE, ALE, HT-UHV magnetron sputtering, e-beam deposition. Patterning involve the use of photolithography, e-beam lithography, laser lithography, RIE/ICP etching and Nanoimprint Lithography.</p> <p>The project is centred on developing individual process modules to be integrated in the complete chain for fabrication of model electronic and optoelectronic devices, and sensors.</p>
<p>Description of expertise offered</p>	<p>Vacuum techniques, plasma techniques, lithography, processing device structures</p>
<p>Description of requested partner expertise</p>	<p>Semiconductor Device Modelling and Characterisation</p>

DR. IMAN POERNOMO , KING'S COLLEGE LONDON, UK

ORGANISATION DETAILS					
Organisation name King's College London					
Street Department of Computer Science, Strand,					
ZIP * WC2R 2LS		City * London		Country * United Kingdom	
Phone * +44 20 7848 2562			Fax +44 20 7848 2851		
Email * michael.luck@kcl.ac.uk			Web www.dcs.kcl.ac.uk		
Employees	1-10	11-50	51 - 250	250 + X	
Organisation type	University X	Research Center	Industry	SME	Other
Department	Department of Computer Science				
Short description of your company/organization	King's College London is one of England's oldest and most prestigious university institutions: a multi-faculty research-led university college based in the heart of London with over 19,700 students, of whom more than 6,200 are postgraduates. It is ranked as one of the world's top 25 universities.				

PARTICIPANT			
Gender	Mr	Ms	Title Dr
First name	Iman		
Last name	Poernomo		
Position	Lecturer		

Areas of activity (Free keywords)	model driven architecture, model transformation, type theory
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PROJECT DESCRIPTION	
Title of your research project in one sentence	Higher-order Refinement Techniques for Model Driven Architecture

<p>Short description of project</p>	<p>This project addresses the important question of how to develop and implement correct MDA transformations. We will do this by formalising MDA metamodels: to provide a common framework for the MDA architecture and its model transformations; providing a way to develop model transformations: to obtain a toolkit to specify and synthesize complex model transformations that are provably correct with respect to their specification; developing tool support: that implements our methods, supports the OMG standards and is interoperable with commonly used MDA CASE tools. Delivering this presents us with some serious research issues: how to encode the MDA model hierarchy; how to use this to develop automatic transformations; and how to implement these so that as much of the theory is hidden from the user as possible.</p> <p>The MDA model hierarchy is intrinsically higher-order, and requires an expressive formal framework from which we can synthesize complex model transformations. However, expressivity must be balanced with computational power, and a constructive approach is necessary. To do this we will bring together constructive type theory, refinement and transformation techniques with support for automated deduction. Such an approach has a sound semantic underpinning and the domain of application offers the opportunity for the well-founded and effective engineering of tool support.</p>
<p>Description of expertise offered</p>	<p>MDA, model transformation, type theory</p>
<p>Description of requested partner expertise</p>	

PROF. ROBERTA RAMPONI, POLITECNICO DI MILANO, ITALY

ORGANISATION DETAILS					
Organisation name Politecnico di Milano					
Street * Piazza Leonardo da Vinci, 32					
ZIP * 20133		City * Milano		Country * Italy	
Phone * +390223996150			Fax +390223996126		
Email * roberta.ramponi@fisi.polimi.it			Web http://www.fisi.polimi.it		
Employees <input type="checkbox"/> 1-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> 51 - 250 <input checked="" type="checkbox"/> 250 +					
Organisation type <input checked="" type="checkbox"/> University <input type="checkbox"/> Research Center <input type="checkbox"/> Industry <input type="checkbox"/> SME <input type="checkbox"/> Other					
Department Department of Physics					
Short description of your company/organization The Department of Physics counts around 50 teaching/research staff people, plus 20 administrative/technical staff, 30 PhD students, 20 Post-Doc reserachers and is part of the Politecnico di Milano, a university with faculties of Engineering, Architecture and Design. Bachelor and master-of-science degrees in Physics Engineering are offered, and PhD in Physics. The Department of Physics hosts a research centre of the Italian National Research Council, the Institute of Photonics and Nanotechnology (IFN-CNR) with which research programs are developed in close cooperation. The research activity of the Department deals with Photonics, Material Science and Nanotechnologies					
PARTICIPANT					
Gender <input type="checkbox"/> Mr <input checked="" type="checkbox"/> Ms		Title Prof			
First name Roberta					
Last name Ramponi					
Position Professor of Physics and Head of the Research line "Photonic devices"					
Areas of activity (Free keywords) Photonic devices, Optical waveguides, Lab-on-a-chip, Optofluidics, Microfluidics, Femtosecond-laser micromachining					
PROJECT DESCRIPTION					
Title of your research project in one sentence		Fabrication of optofluidic devices by means of femtosecond-laser pulses			
Short description of project		Irradiation by means of femtosecond-laser pulses is used to directly write optical waveguides embedded in dielectric substrates; irradiation followed by chemical etching is used to fabricate embedded microchannels. This allow the realization of 3D optofluidic devices. Depending on the design and the materials used, many application fields can be addressed (biosensing, cell micromanipulation, environmental sensing, telecommunications, etc.)			
Description of expertise offered		Femtosecond laser micromachining; design of photonic devices; design of microfluidic devices			
Description of requested partner expertise		Material science; development of optical sensors; micro and nanofabrication capabilities; development of microsystems			

PROF. KLAUS SCHILLING, JULIUS-MAXIMILIANS UNIVERSITÄT WÜRZBURG, GERMANY

ORGANISATION DETAILS					
Organisation name Julius-Maximilians Universität Würzburg					
Street * Am Hubland					
ZIP * 97074		City * Würzburg		Country * Germany	
Phone * +49 (0)931 31 86647			Fax +49 (0)931 888 6679		
Email * schi@informatik.uni-wuerzburg.de			Web www7.informatik.uni-wuerzburg.de		
Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50		<input type="checkbox"/> 51 - 250	<input checked="" type="checkbox"/> 250 +
Organisation type	<input checked="" type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department	Computer Science 7 - Robotics and Telematics				
Short description of your company/organization	The institute for robotics and telematics is part of computer science. The main research objectives of the chair concern interdisciplinary system design with emphasis on Telematics-integrating telecommunications, computer science and control engineering and Robotics and Mechatronics - integrating electronics, mechanics, sensors, control engineering, information processing. Key application areas are Mobile Robots, Telematics, Space Exploration, and Robots in Medicine. For more than 20 years successful projects related to tele-education and robotics funded by European Union and national context have been performed.				
PARTICIPANT					
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms		Title Prof.	
First name	Klaus				
Last name	Schilling				
Position	Professor				
Areas of activity (Free keywords)	Remote Sensor Data Acquisition, Tele-Maintenance, Tele-Diagnosis, Mobile Robots, Telematics, Space Exploration, Robots in Medicine, Networked-Robotics, Teleoperation				
PROJECT DESCRIPTION					
Title of your research project in one sentence	International Tele-Laboratory on Robotics				
Short description of project	<p>Within the scope of this project, each partner develops tele-experiments related to robotics and telematics. The experiments are using real hardware (e.g. mobile robots) and learning units are designed to teleoperate the hardware within a tele-education framework. An experiment consists of tutorials of the theoretical basics, exercises, test questions, and simulations. During the experiment, the hardware is controlled via the Internet and the sensor data is returned to the student</p> <p>The lack of real hardware at other Universities detains students from experimenting with real hardware. Thus, this course closes this gap and allows students to use hardware via the internet.</p> <p>The aim of the project is to establish a network of Indian/European universities, addressing the future oriented, interdisciplinary engineering discipline of Telematics</p>				

	(telecommunications + informatics). This leads in joint research opportunities and pooling of experience between the partner universities are achieved. Related industrial tele-maintenance and tele-diagnosis of remote industrial equipment promises expanding service business within the global market, nevertheless only few engineers are yet trained in this field. This approach promises good sustainability perspectives, beyond the project duration, when less travel funding might be available. By exchanging students and faculty as well as by intensive training courses the remote experiments will be implemented.
Description of expertise offered	Expertise in tele-education, remote-laboratories with real robot hardware, telematics, and teleoperation of hardware systems.
Description of requested partner expertise	Expertise in tele-education, remote-laboratories with real robot hardware, telematics, and teleoperation of hardware systems.

DR. IRINA SIRKOVA, INSTITUTE OF ELECTRONICS, BULGARIAN ACADEMY OF SCIENCES, BULGARIA

ORGANISATION DETAILS					
Organisation name Institute of electronics, Bulgarian Academy of Sciences					
Street * Tzarigradsko chaussee 72					
ZIP * 1784		City * Sofia		Country * Bulgaria	
Phone * (+359 2) 875 0077			Fax (+359) 2 9753201		
Email * die@ie.bas.bg			Web http://www.ie-bas.dir.bg		
Employees		<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50	<input checked="" type="checkbox"/> 51 - 250	<input type="checkbox"/> 250 +
Organisation type		<input type="checkbox"/> University	<input checked="" type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME
Department		Microwave Remote Sensing Lab			
Short description of your company/organization		The Institute of Electronics at the Bulgarian Academy of Sciences was established in 1963 as a non-profit state organization to conduct research and education as well as dissemination of scientific knowledge in the following key research areas: Physical Electronics; Photonics and Quantum Electronics and Radio sciences. The research in Radio sciences is concentrated on studying the interaction of optical and microwaves with the atmosphere and Earth surface; laser radar remote sounding and monitoring of the atmosphere, microwave radiometric sensing of the soil moisture; detection, amplification and signal processing techniques for extraction and interpretation of the information; design of microwave devices for radar and communication system applications.			
PARTICIPANT					
Gender		<input type="checkbox"/> Mr	<input checked="" type="checkbox"/> Ms	Title Dr.	
First name		Irina			
Last name		Sirkova			
Position		Assoc. Prof.			
Areas of activity (Free keywords)		Microwave propagation in non-ionized media; numerical methods			
PROJECT DESCRIPTION					
Title of your research project in one sentence		Elaboration of a reference scenario relevant to wireless communications in coastal and maritime regions			
Short description of project		In coastal and maritime regions the microwave propagation is affected by the high variability with space and time of the meteorological parameters leading to respective changes in the tropospheric refractive index. The refractivity vertical gradient determines different refractive conditions types responsible for different rays bending thus leading to highly variable propagation conditions. The most severe case is the formation of tropospheric duct in which the microwave energy is trapped and propagated like in a waveguide. The duct is present for small percent time but affects seriously the radars and communications links performance. The project formulates a possible reference scenario relevant to coastal and maritime zones and is specifically oriented to the common for those zones ducting propagation. The scenario is based on the parabolic equation modeling of the ducted propagation. The aim is to provide accurate methodology for			

	coverage/link budget (and, possibly, other parameters) assessment under the specific propagation conditions characterizing the coastal and maritime zones.
Description of expertise offered	Advanced microwave propagation modeling with applications to radars' performance assessment and communications networks planning; propagation channel characterization; numerical methods (finite element).
Description of requested partner expertise	UMTS CDMA techniques; MIMO Channels and Processing; LTE physical layer modulation and coding schemes; radar signal processing techniques.

DR. RADOSVETA SOKULLU, EGE UNIVERSITY, TURKEY

ORGANISATION DETAILS					
Organisation name	Ege University, Engineering Faculty, Electrical-Electronics Engineering				
Street *	Ege University, Engineering Faculty, Electrical-Electronics Engineering, Bonova-Izmir				
ZIP *	35100	City *	Izmir	Country *	Turkey
Phone *	+90 232 3434000-1923		Fax	+90 232 3886024	
Email *	radosveta.sokullu@ege.edu.trr		Web	http://electronics.ege.edu.tr/fsl	
Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input checked="" type="checkbox"/> 250 +	
Organisation type	<input checked="" type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department	Electrical-Electronics Engineering				
Short description of your company/organization	Ege University is currently composed of 11 Faculties, 5 Schools, 7 Vocational Schools, a State Conservatoire of Turkish Music, 8 Institutes, 6 Departments in special status and 26 Research and Application Centres. In 2008-2009 academic year, 11.641 associate, 27.114 undergraduate, 2.052 graduate, 467 specialists of Medicine and 1575 doctorate students, in total 42.849 students, are enrolled in Ege University. There are 3.284 teaching staff and 3.500 administrative staff in the University.				
PARTICIPANT					
Gender	<input type="checkbox"/> Mr	<input checked="" type="checkbox"/> Ms	Title Assistant Prof. Dr.		
First name	Radosveta				
Last name	Sokullu				
Position	Assistant Prof. Dr.				
Areas of activity (<i>Free keywords</i>)	communication networks, wireless networks, sensor networks, distributed systems, future internet				
PROJECT DESCRIPTION					
Title of your research project in one sentence	Smart Grid Network Integration				
Short description of project	The design and control of novel architectures, components and distributed energy sources solutions needed for future power network.				
Description of expertise offered	Wireless Nodes Programming, distributed systems, network desing				
Description of requested partner expertise	Distributed Power Network, Communication Network Integration				

PROF. BURKHARD STILLER, COMMUNICATION SYSTEMS GROUP, SWITZERLAND

ORGANISATION DETAILS					
Organisation name	Communication Systems Group, Department of Informatics, University of Zürich				
Street *	Binzmühlestrasse 14				
ZIP *	CH-8050	City *	Zürich	Country *	Switzerland
Phone *	+41 44 635 6710		Fax	+41 44 635 6809	
Email *	stiller@ifi.uzh.ch		Web	http://www.csg.uzh.ch	
Employees	<input type="checkbox"/> 1-10	<input checked="" type="checkbox"/> 11-50	<input type="checkbox"/> 51 - 250	<input type="checkbox"/> 250 +	
Organisation type	<input checked="" type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department					
Short description of your company/organization	The Communication Systems Group does research on communications, addressing communication protocols for distributed systems, charging, accounting, mobility, security, network management, and peer-to-peer systems. Secondly, it is committed to provide a full and up-to-date teaching curriculum on communications for undergraduate and graduate students, partly in conjunction with other groups at IFI.				
PARTICIPANT					
Gender	<input checked="" type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Prof. Dr. rer.-nat.		
First name	Burkhard				
Last name	Stiller				
Position	Department Head				
Areas of activity (<i>Free keywords</i>)	communication protocols for distributed systems, charging, accounting, mobility, security, network management, peer-to-peer systems, green IT				
PROJECT DESCRIPTION					
Title of your research project in one sentence	Optimization of Accounting Data Generation and Transfer in Case of Smart Metering Infrastructures				
Short description of project	The volume of accounting data sent in today's smart meter-based networks has reached limits, which lead to the bottleneck of being unable to process millions of those at the respective backend software systems. Furthermore, the network load for transporting these records has reached limits, too. Thus, optimizations on addressing these bottlenecks are essential for a large-scale and effective smart meter set-up.				
Description of expertise offered	Communication protocols for distributed systems, charging, accounting, security, network management, and peer-to-peer systems, and basics in smart metering technology.				
Description of requested partner expertise	Mathematical and formal modelling as well as simulative evaluations of such scenarios, mainly driven by new protocols and accounting data as well as charging models for smart meter-based infrastructures.				

DR. ANWAR VAHED, COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR), SOUTH AFRICA

ORGANISATION DETAILS					
Organisation name Council for Scientific and Industrial Research (CSIR)					
Street * Meiring-Naude Road, Brummeria					
ZIP * 0001		City * Pretoria		Country * South Africa	
Phone * +27 12 841 2954			Fax		
Email * avahed@csir.co.za			Web www.csir.co.za		
Employees <input type="checkbox"/> 1-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> 51 - 250 <input checked="" type="checkbox"/> 250 +					
Organisation type <input type="checkbox"/> University <input checked="" type="checkbox"/> Research Center <input type="checkbox"/> Industry <input type="checkbox"/> SME <input type="checkbox"/> Other					
Department ICT for Earth Observation					
Short description of your company/organization The CSIR is one of the leading scientific and technology research, development and implementation organisations in Africa. Constituted by an Act of Parliament in 1945 as a science council, the CSIR undertakes directed and multidisciplinary research, technological innovation as well as industrial and scientific development to improve the quality of life of the country's people					
PARTICIPANT					
Gender		<input type="checkbox"/> Mr <input type="checkbox"/> Ms		Title Dr	
First name Anwar					
Last name Vahed					
Position Research Group Leader					
Areas of activity (<i>Free keywords</i>) Sensor Web, middleware, e-science, disaster risk, climate change, ehealth, fire, flood					
PROJECT DESCRIPTION					
Title of your research project in one sentence		Collaborative research environments and intelligent middleware systems for the Sensor Web			
Short description of project		The research of the <i>Information and Communication Technologies for Earth Observation (ICT4EO)</i> research group is directed at developing intelligent middleware to harvest meaningful information from the Sensor Web and to manage the multiplex steps of information discovery, handling, processing, and representation in scientific workflows			
Description of expertise offered		Geomatics, middleware, OGC compliant web services, e-science environments, fire, flood risk, disaster management			
Description of requested partner expertise		Environmental science, Geoinformatics, Climate change, Disaster management, ICT: Sensor Science			

DR. ROGER WHITAKER, CARDIFF UNIVERSITY, UK

ORGANISATION DETAILS					
Organisation name Cardiff University					
Street * School of Computer Science and Informatics, Queens Buildings, 5 the Parade, Roath,					
ZIP * CF24 3AA		City * Cardiff		Country * UK	
Phone * 029 2087 6999			Fax 029 2087 4812		
Email * R.M.Whitaker@cs.cardiff.ac.uk			Web www.cs.cardiff.ac.uk		
Employees	<input type="checkbox"/> 1-10	<input type="checkbox"/> 11-50		<input type="checkbox"/> 51 - 250	<input checked="" type="checkbox"/> 250 +
Organisation type	<input checked="" type="checkbox"/> University	<input type="checkbox"/> Research Center	<input type="checkbox"/> Industry	<input type="checkbox"/> SME	<input type="checkbox"/> Other
Department	School of Computer Science and Informatics				
Short description of your company/organization	Cardiff University is a top UK University founded in 1883 with over 20000 students. It is located in a prestigious capital city in the country of Wales, 2 hours west from London. The University has an international reputation.				
PARTICIPANT					
Gender	<input type="checkbox"/> Mr	<input type="checkbox"/> Ms	Title Dr		
First name	Roger				
Last name	Whitaker				
Position	Head of School				
Areas of activity (Free keywords)	Ubiquitous computing, optimization, wireless communications				
PROJECT DESCRIPTION					
Title of your research project in one sentence	SOCIALNETS: Social networking for pervasive adaptation www.socialnets.ie				
Short description of project	Mobile devices can build up a social network between themselves for communication and content sharing.				
Description of expertise offered	mobile systems, geo-spatial informatics, trust				
Description of requested partner expertise	Consistent with interests in the project.				