

Partner Search Alert Friday 4 September 09

Partner Search 1

Theme:	<ul style="list-style-type: none"> - ENERGY - NMP
Title:	Construction materials and technologies for energy efficient buildings
Deadline:	27/05/2010
Organization type:	Service sector
Country:	Spain
Abstract:	Development and testing of new materials and technologies in order to achieve energy efficient buildings according to the future European Union requirements in 2012.
Description:	<p>The Andalusian Company is the coordinator of the project. It has worked on Research and Technological Development projects involving composite materials, carbon fiber, concrete, cement, Construction and Demolition Waste (CDW), etc. They are also working in processes and materials related to Green Energies.</p> <p>The aim of the project is the development of new building techniques and materials to be used at the construction of new buildings with the aim of achieving more efficiency energy in accordance with the 2012 European Union laws and requirements.</p> <p>They are looking for cooperation of researchers, building engineering companies, manufacturer of construction materials and installers of heating and cooling equipment in order to complete the consortium. Technical Specifications / Specific technical requirements of the request</p> <p>They are working on a project in the field of Energy Efficient Buildings. They are looking for partners linked to the following skills:</p> <ol style="list-style-type: none"> 1. Researchers and technological centers in the field of construction





	<p>2. Engineers and architects in the field of Building</p> <p>3. Manufacturers of construction products like: isolation, bricks and tiles, windows, wood, pipes, etc</p> <p>4. Installers of solar thermal panels, heating and cooling equipment installers, geothermal heat pumps.</p> <p>Current and Potential Domain of Application</p> <p>Market</p> <p>Further Information (Technical Details Concerning the Profile)</p> <p>The company is interested in contact with entities in order to present a project proposal to the FP7 open call: Intelligent Energy, Topic: 9.2.1 Energy-efficient buildings in the Framework of the Competitiveness Innovation Program". They are also open to future FP7 Cooperation calls that could be related to the aim of the project.</p>
Partner type:	Researchers, building engineering companies, manufacturer of construction materials and installers of heating and cooling equipment.
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)</p> <p>For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>

Partner Search 2

Theme:	ENVIRONMENT
Title:	Creation of an industrial waste collection point in the industrial areas



Deadline:	10/09/2009
Organization type:	NGO
Country:	Spain
Abstract:	<p>Creation of an industrial collection point in the industrial areas, where an integrated waste management will be carried out from waste collection in factories to the collection point. As it happens with collection points in municipalities the project aims to establish collection points in industrial parks where industrial waste will be classified and treated by authorized treatment plants.</p>
Description:	<p>"Eco i-Waste" aims to create an industrial collection point in the industrial areas, where an integrated waste management will be carried out from waste collection in factories to the collection point. As it happens with collection points in municipalities, "Eco i-Waste" pretends to establish collection points in industrial parks where industrial waste will be classified and treated by authorized treatment plants. Additionally to the collection point infrastructure, a research center will analyze waste in order to find the best avant-garde methods for its management.</p> <p>The objectives of "Eco i-Waste" are:</p> <ol style="list-style-type: none"> 1) Management optimization. 2) Logistic and treatment costs minimization, guarantying that waste will be carried to an authorized treatment plant, depending on composition and nature of fractions and components. 3) To adequate the reception and storage, and subsequently carry out the waste treatment in the authorized treatment plant. 4) Hazardous substances risks prevention and exposal. 5) Environment protection and improvement. 6) To offer a complementary management service to the SME's. 7) To guarantee waste traceability. 8) To be complementary to the current domestic waste management performed through the municipality collection points. <p>The benefits of Eco i-Waste are:</p> <p>A. Environmental benefits</p> <ul style="list-style-type: none"> - Improvement of the waste management. - Best quality and environmental direction of the industries and SME's in the influence area of the collection points. - Hazardous components duly treated and controlled. <p>B. Health benefits</p> <ul style="list-style-type: none"> - Prevention of health risks by uncontrolled waste disposal. <p>C. Social benefits</p> <ul style="list-style-type: none"> - Employment creation - Elimination of the waste in landfills and minor roads <p>D. Economic benefits</p> <ul style="list-style-type: none"> - Logistic and treatment costs reduction. - To increase the managers and authorized treatment plants activity for the correct management of the waste.



	<p>- To take advantage of the obtained fractions, for their reuse as raw material.</p> <p>Description of your organization</p> <p>Nowadays, technological advances in well-being and life quality, such as the consumption that we permeate from the media and people around us, make that demand for raw materials is higher, when natural resources are increasingly scarce. To all this we must add the globalization and integration of emerging countries, which are added to this cycle of consumption. This rapid growth is not always realized in a sustainable environment, but on the contrary, it attacks the environment and ecosystems of our immediate surroundings. INTRAECO is a Spanish non-profit foundation focused on the innovation of ecologic treatment, developing projects related to management, collection, recycling, reuse and treatment of waste of electrical and electronic equipments (WEEE) and with the primary purpose of identifying our society problems and environmental issues, generating ideas translated into projects which led to his execution for environment, social improvement and sustainable development.</p>
Partner type:	<p>Public entities, for addressing challenges posed to the achievement of sustainable economic and social, as well as private companies, as active contributors in their daily process manufacturing or services. (Universities, technological centres, collection operators and entities, platforms of municipalities, industrial estates, small and medium enterprises, industry associations, research centres, treatment, recycling and reuse operators)</p>
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)</p> <p>For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>



Partner Search 3

Theme:	TRANSPORT
Title:	Green Air Transport Operations
Deadline:	30/12/2009
Organization type:	Industry
Country:	IRELAND
Abstract:	<p>Monitoring and modelling the air quality and noise in the vicinity of an airport and determining the response of the local community to environmental pollutions from airports.</p>
Description:	<p>The objective of this project is twofold; (a) to monitor and model the air quality and noise in the vicinity of an airport and (b) to determine the response of the local community to environmental pollutions from airports.</p> <p>-Work Package 1: Monitoring and Modelling Environmental Pollutants This work package will see the development of an environmental pollutant monitoring system (air and noise) that integrates real time data with model predictions. Meteorological conditions (wind speed, wind direction, humidity, precipitation etc.) will be correlated with the occurrence of environmental pollutants in addition to the operations at the airport. This data will be managed via a 3G system that has the capability of real time feeds to a control centre where environmental maps will constantly be updated. Using this information it will be possible to determine if limit values have been exceeded and the cause of the infringement. Hence, it will be possible to determine if the infringement is dependent on a particular flight path or certain meteorological conditions etc, as all variables will have been monitored. This will then lead to the development of appropriate specific mitigation measures. There will be potential to make this information accessible to the general public via web-based access.</p> <p>-Work Package 2: The Response of the Local Community The data acquired in the first work package will be used to assess the local community's response to noise and air quality. This may also involve the development of an integrated air/noise pollutant indicator. An integral part of this study will be to engage with residents living near the airport. Some psycho-acoustic phenomena could also be included in the analysis, including an evaluation of potential 'soft' mitigation measures e.g. a change in the perceived airport environment, masking of noise etc. Different public</p>



	responses across different Member States will also be evaluated to compare the extent of annoyance across Europe.
Partner type:	Industrial or research partners active in the area of air quality and noise monitoring.
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)</p> <p>For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>

Partner Search 4

Theme:	ENVIRONMENT
Title:	Biogas production optimization in anaerobic digestion of wastewater treatment plants sludge.
Deadline:	31/12/2009
Organization type:	Industry
Country:	SPAIN
Abstract:	Analysis and optimization of the anaerobic digestion process of wastewater treatment plants sludge by studying several variables (both in the raw sludge and in the dried sludge) for reaching a high biogas production with low presence of contaminants and obtaining a digest with appropriate characteristics for use as a fertilizer.



Description:

The urban wastewater treatment processes are a major environmental problem due to the sludges generation during the treatment. All the sludge management alternatives create environmental problems that should be minimized or, at best, eliminated. The sludges dumping in landfills is limited by the directive 99/31/EC. According to this directive, the biodegradable waste dumping in landfills will have to be reduced in 2016 up to 35% of that generated in 1995.

DESCRIPTION:

The urban wastewater treatment processes are a major environmental problem due to the sludges generation during the treatment. In some wastewater treatment plants, the sludges are stabilized through anaerobic digestion, while others plants use to thick and dehydrate them, and after that, the sludges are sent to an authorized manager. Finally, those dehydrated sludges are sent to landfills or incineration plants.

All of those sludge management alternatives create environmental problems that should be minimized or, at best, eliminated. The sludges dumping in landfills is limited by the directive 99/31/EC. According to this directive, the biodegradable waste dumping in landfills will have to be reduced in 2016 up to 35% of that generated in 1995. On the other hand, the incineration processes are not a better alternative as it requires the application of appropriate treatments in order to reduce the emission of air pollutants.

In the anaerobic digestion process, the final digest often contains metals concentrations which disable their potential use as fertilizers. Moreover, in many cases the biogas production levels are not very high, and the biogas produced by this way contains a significant concentration of gases (SH₂, ... siloxanes), which minimize its use as fuel and requires costly treatments for its purification.

The anaerobic digestion process of wastewater treatment plants sludge will be analyzed by studying several different variables, both in the raw sludge (generated in the wastewater treatment plant) and in the dried sludge. This optimization of the anaerobic digestion process should enable:

- To reach a high biogas production with a low presence of contaminants, which would converts the biogas obtained by this process into a real alternative to fossil fuels.
- To obtain a digest with the appropriate characteristics for its use as fertilizer (in terms of presence of heavy metals, nutrients, etc..), and thus avoiding the waste generation during the process.

To achieve these objectives it will be necessary to carry out several studies to recognize the effect of specific variables on the characteristics of the produced biogas and on the digests (e.g.):

- Primary and secondary sludge mixtures (dried and raw sludge).
- Reagents (employed in the drying process: polyelectrolytes, CaI, FeCl₃,…).
- Sludge Pretreatment (thickened or dried) before being submitted to anaerobic digestion process: thermal, chemical, ultrasounds,…



	<p>-Co-digestion with other organic waste.</p> <p>-Operating Variables: Humidity, temperature (mesophilic and thermophilic range),&#8230;</p> <p>-Different configurations (CSTR, SBR, PFR, one or two stages). Laboratory and pilot plant scale.</p> <p>In addition to the experimental work, it is expected to study by the application of the Life Cycle Assessment (LCA) methodologies, the configuration that achieves better results in terms of biogas production, quality and characteristics of digestato (in terms of greenhouse gas emissions generation). This study can be done through the application of LCA software tools such as SIMAPRO 7.1.</p>
Partner type:	Industrial or research partners active in the field of municipal sludge treatment and management.
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)</p> <p>For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>

Partner Search 5

Theme:	ICT
Title:	Design and Demonstration of a Global Alerting System for Disaster Management.
Deadline:	19/11/2009
Organization type:	Industry



Country:	GERMANY
Abstract:	Design of a Global Alerting System through integration of several existing technologies (terrestrial and satellite) to reach the maximum number of potentially affected citizens despite disruptions due to natural or manmade disaster.
Description:	<p>Integration of several existing technologies (terrestrial and satellite) to reach the maximum number of potentially affected citizens despite disruptions due to natural or manmade disaster</p> <p>Project High-Level Objectives</p> <ul style="list-style-type: none"> - Design of such global alerting end-to-end system using a smart combination of existing terrestrial and satellite technologies (including positioning information) - End-to-end Validation <p>Relevance to Open Topics in Security Call 3 SEC-2010.4.2-1</p> <ul style="list-style-type: none"> - Development and demonstration of an early warning and alert infrastructure with means for interoperation - With features for coordination at European Level (and more) - Ensuring effective management of large civil crises and complex emergencies in early phases of the crisis management process - Ensuring interoperability between technologies; even integrating them - Inline with the expected impact for early phases of crisis management process, adding human factors to the concept <p>SEC-2010.4.3-1</p> <ul style="list-style-type: none"> - 100% inline with topic description and expected impact - alert procedures and human factors shall be added <p>Tool</p> <ul style="list-style-type: none"> - Sub-Project within a large Integration Project in Topic SEC-2010.4.2-1 or - Stand-alone Capability Project in Topic SEC-2010.4.3-1 <p>Tentative Funding: 3.5 MEur; Project Duration: 2-3 years</p>
Partner type:	Partners requested should be either End Users (Civil Protections), Service Providers, Operators (for the different technologies) or Universities.
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus</p>



	Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr) For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr) For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr) For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)
--	--

Partner Search 6

Theme:	ICT
Title:	Federated system for sharing and using spatial data
Deadline:	23/09/2009
Organization type:	Service Sector
Country:	ITALY
Abstract:	Realisation of a pilot project involving at various level public bodies, SME, big enterprises in order to experiment and validate a federated system for sharing and using spatial data (satellite data, cartography, various themes).
Description:	<p>FEDERDATA PROJECT</p> <p>OBJECTIVE The project objective is to realize a pilot project involving at various level public bodies, SME, big enterprises in order to experiment and validate a federated system for sharing and using spatial data (satellite data, cartography, various themes). The final objectives is to facilitate services supplying to both entity internal staff and external entities such as citizen, SME, professionals.</p> <p>THE SERVICES The services that will be realized are of two types: data sharing and advanced services. Data sharing All involved entity will be equipped of a SDI (spatial data infrastructure) compliant to INSPIRE specification and allowing them cataloguing and</p>



archiving of all their spatial data they normally use for their work. Each office will therefore archive, all entity spatial data in a unique repository. So anyone will be able, using the facilities supplied by the SDI, to browse the catalogue and see archived data. Because all involved entity will be interoperable, anyone will be able to see, simultaneously, both its own data and other federated entity data.

In this way entity technician will be able to see its office data, the other office data and other entity ones. This will happen in a transparent way he only will use its own SDI.

Advanced services

The advanced services the system will contribute to supply will be more than one and in different specific sector such as:

- Monitoring services. To monitor the urban growing and abusiveness; monitoring of landfills; monitoring of coasts; monitoring of the courses of rivers and watersheds; monitoring of technical networks (energy, gas, water, petroleum, etc..);
- Territory planning support. Urban development planning support; regional development planning support.
- Statistica services. Distribution of the population for density, age, social welfare needs, etc
- Support to civil protection services. Support to definition and actuation of emergency plans

The system

In the framework of the programme all involved entities will be equipped of a SDI system, based on Open Source SW and WEB based. The system will be specialized on the participants needs. Basically the system will allow partners in data cataloguing and archiving of all entity spatial data. Through the system each user will examine catalogue and data of its entity, other federated entities and all other SDI compliant to standards below listed.

The system could manage also reserved data, for this reason the access to catalogue and data will be filtered on the bases of the user profile permission. Each user have to be recognized through username and password submission or through X509 certificates.

The system will be compliant to following standard:

- ISO 19115/19139
- INSPIRE directive
- OGC protocols: WMS, WFS, WCS e CSW
- X.509 certificate

UE FINANCING PROGRAMME

C.I.P. PSP

BUDGET: 4,5-5 M?

Duration: 36 months

Share co-financing: 50%

TASKS OF PUBLIC BODIES

Public body role in the project will be SDI end user. He should use the SDI archiving, cataloguing and using its own spatial data and the ones shared from other public body. For each European county, at least two public body on the same geographical area, shall be involved in the program.

PUBLIC BODY CHARGES



	<p>Each public body will kept at disposal own staff (2-3 people) for using the SDI during the pilot project. The entity will be founded for the 50% of the personnel costs.</p> <p>Public body budget</p> <p>For each public body a budget of 250K? is foresees for personnel costs. The financing is about 125 K?. No other costs are in charge of public bodies.</p> <p>Lead Partner</p> <p>The lead partner in the project is IRIS consortium. It a consortium of SME specialized in ICT field.</p>
Partner type:	Public body to act as an end user. He should use the systems archiving, cataloging and using its own spatial data and the ones shared from other public body.
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)</p> <p>For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>

Partner Search 7

Theme:	ENVIRONMENT
Title:	Vegetables and bacteria synergy for pollutant removal in Controlled Environments.
Deadline:	08/09/2009
Organization type:	Industry



Country:	ITALY
Abstract:	Prototype design and build of a sophisticated pollution-absorbing device by means of plants in a fully controlled environment. Design of the device will be supported by numerical simulations and experimental tests in order to understand the main functional parameters.
Description:	<p>The project's goal is to design and build a prototype of a sophisticated pollution-absorbing device by means of plants in a fully controlled environment. Design of the device will be supported by numerical simulations and experimental tests in order to understand the main functional parameters.</p> <p>Further details are available only after a confirmed interest in participating to this project.</p> <p>Type of European Project Current stage of project development: proposal ready, just waiting to be filled by missing partner</p> <p>Type(s) of project: Eurostars Research Project</p> <p>European Funding Source: Eureka (EUROSTARS)</p> <p>Partnership composition and Know How Coordinator: AEROSOFT SpA Project Management, Computational Fluid Dynamics Simulations, CAD/CAE and engineering. Strong expertise in all industrial fields (Aerospace, Automotive, Rail, Naval, Plants engineering) Partner: CNR IBAF IBAF research activities are in the field of plants and environment interactions with the aim of developing green technologies making use of plants and agroforestry systems for biomass production and environmental improvement. The applications of these studies concern the selection of resistant plants to environmental stress and climatic changes, but also plant systems for environmental mitigation and for the improvement of landscape (reduction of pollution, uptake of CO₂, combat desertification, agroforestry and biomass production). Main research topics are: i) plant ecophysiology, physiology, biochemistry, molecular and genetic in the field of plant/environment interactions ii) analysis and design of multispecific crop models for agriculture and agroforestry (for temperate, semiarid and tropical regions iii) ecological planning and management of natural Parks and Reserves and land rehabilitation.</p>
Partner type:	Large company or SME with expertise in air filters, walk in chamber, growing room, phytotrons, HVAC manufacturers to realize the air filter device prototype comprehensive of all subsystems (light, nourishments and ventilation plants).

**Further information:****For Moldova**

Constantine Vaitsas (vaitsas@help-forward.gr)
Nikos Melanitis (nikos@help-forward.gr)

For Ukraine

Panagiotis Karniouras (karniouras@help-forward.gr)
Nikos Melanitis (nikos@help-forward.gr)

For Belarus

Anastasia Constantinou (nats@help-forward.gr)
Vassilios Tsakalos (vtsak@help-forward.gr)

For Armenia

Anastasia Constantinou (nats@help-forward.gr)
Vassilios Tsakalos (vtsak@help-forward.gr)

For Azerbaijan

Apostolos Dimitriadis (adimi@help-forward.gr)
Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)

For Georgia

Apostolos Dimitriadis (adimi@help-forward.gr)
Vassilios Tsakalos (vtsak@help-forward.gr)

Partner Search 8

Theme:	ICT
Title:	Development of Geographical information Systems (GIS) software.
Deadline:	23/09/2009
Organization type:	Service Sector
Country:	United Kingdom
Abstract:	Development of a system for making archival resources for the study of historic cities more available to an international research community and the general public in an highly innovative way.
Description:	A UK based University is leading a consortium that is applying for Framework Programme 7 funding under ICT Call 6. They are seeking an additional SME partner to strengthen their proposal. The project under ICT Topic number 2009.4.1 (Digital Libraries and Digital Preservation) aims to address the problem of how to make archival resources for the study of historic cities more available to an international research community and the general public. It approaches this in an highly innovative way. (Further details will be discussed with any suitable



	<p>partner). The SME should have expertise in the development of Geographical information Systems (GIS) software packages.</p> <p>**The deadline for responses in 23rd September 2009**</p> <p>Technical Specifications / Specific technical requirements of the request</p> <p>Specific expertise required of the SME includes:</p> <ul style="list-style-type: none"> - Assist in the development of a GIS web tool with layered maps - Creation of a GIS data transition layer - Creation of a desktop GIS software package <p>Previous FP7 experience would be beneficial but not essential.</p> <p>Other Profile Details Organisation: Rtc North Ltd Network Partner: YHCIP Country: United Kingdom Entry Date: Mon, August 24, 2009 Validation Date: Mon, August 24, 2009 Deadline: Sat, October 17, 2009 List of Keywords Technology</p> <p>* GIS Geographical Information Systems</p> <p>Market Collaboration Type</p> <p>* Joint Venture Agreement</p>
Partner type:	SME with expertise in the development of Geographical information Systems (GIS) software packages.
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)</p> <p>For Georgia</p>



	Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)
--	---

Partner Search 9

Theme:	ICT
Title:	Telematic implementation of environmental management systems according to the EMAS regulation in SMEs from the metallurgical sector with the support of a web platform.
Deadline:	10/09/2009
Organization type:	Service Sector
Country:	SPAIN
Abstract:	Development of a web platform that allows rendering consulting services to the SMEs of the metallurgical sector in order to create and maintain an environmental management system according to EMAS regulation.
Description:	<p>Call incl.reference no CIP-EIP-ECO-INNOVATION 2009 Funding programme Eco-Innovation Deadlines: Call 10 September Description of project idea incl. theme and activities Develop a web platform that allows rendering consulting services to the SMEs of the metallurgical sector in order to create and maintain an environmental management system according to EMAS regulation. - Each SMEs taking part on the project will be able to access to a customized website using a personal password, updated when required. - Private website for each company will keep all necessary documents that the environmental system requires and both the company and the consultant can access and modify them, allowing on-line consultancy. - The system will identify and notify (by internal mail system) to the consultant or the advised company if existing contents have been modify or new ones have been created. Notifications will include information regarding who created/modified the new content, which ones were created and it when happened. - After developing the tool, consultancy process will happen in monthly working sessions during the set up process. This may vary according to the company needs. Working sessions will include: o Explanation of the environmental management system requirements. o Identification, development and documentation of the company's operative processes. o Data collection in order to design and fill the company's customized private website. &#8211; An environmental test will be carried out in order to test the efficiency of the project. - According to those conclusions, the web platform will be adapted to fulfil the regulation requirements in the more suitable way.</p>



Partner type:	SMEs in the metallurgical sector that need to comply to EMAS regulations.
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)</p> <p>For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>

Partner Search 10

Theme:	FOOD QUALITY AND SAFETY
Title:	Automated sensors network for process control in the agrofood industry.
Deadline:	15/09/2009
Organization type:	RTO
Country:	SPAIN
Abstract:	Development of an automated sensor network to measure a series of parameters on-line for a specific process within the agrofood industry.
Description:	In today's agrofood industry we can still find many black box like processes. This project focuses on one of these processes where the control of the chemical and physical parameters is crucial. With the aim of improving the control, some sensors have been introduced in this process. These sensors provide some basic information about pH and temperature. At present the rest of parameters (which provide the real



	valuable information) are analysed with chromatographic techniques. These analyses must be outsourced and turn around time can extend to several weeks. When results are received, appropriate measures are taken, if necessary. However, the process might fail in the meantime. AD-SENSE project aims to develop an automated sensors network to measure a series of parameters on-line for a specific process within the agrifood industry. This network will be comprised of temperature, gas, electrochemical and spectroscopic sensors. Sensors will be connected to a processing unit which will analyse the information and modify the process working conditions. The sensor network will be designed for a very concrete emerging business within the agrofood sector. This project aims to bridge this gap and develop a decision-making support system for this process. This objective will be reached by developing an automated sensors network to measure a series of parameters on-line.
Partner type:	European SME with experience in the manufacture of Raman spectrometers for participation in the building of a Raman spectrophotometric system and its optimisation for a specific application.
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)</p> <p>For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>

Partner Search 11

Theme:	ENERGY
Title:	Development of an Energy Saving System.



Deadline:	14/09/2009
Organization type:	Industry
Country:	SPAIN
Abstract:	Development of a system that will visualize and optimize in an easy way the electric consume in a house, maximizing the energy efficiency.
Description:	<p>Call: EUROSTARS</p> <p>Objectives To give to the end user the chance to visualize and optimize in an easy way the electric consume in a house, maximizing the energy efficiency. The premises to achieve this are:</p> <ul style="list-style-type: none">- No installation required.- No needs of technical knowledge from the end user.- To be able to visualize consumptions in real time, in historical jeans or in easy-to-read graphs.- To achieve optime consume levels by making actions taking profit from current invoice timescales, or by an automatic turn off of electrical appliances if there is the risk to exceed maximum consumption.
Partner type:	Industry partner for implementation of RTD results in partner business, such as Software Developer, Electronic Boards Manufacturer, Software Embedded Systems Manufacturer/Developer.
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)</p> <p>For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>



Partner Search 12

Theme:	HEALTH
Title:	Enzymatic cleaning with airborne disinfection.
Deadline:	30/09/2009
Organization type:	Industry
Country:	FRANCE
Abstract:	<p>Developing an innovative solution combining cleaning & disinfection for the Agri&Food industries, with potential applications in Human Health area (pharmaceutical & hospital sector). The EUREKA project aims at coupling enzymatic cleaning with airborne disinfection.</p>
Description:	<p>In Agri&Food industries, as well as in Human Health area, sanitary risk management is a major concern as it impacts directly on the quality and reliability of final products. Current solutions are based on traditional chemical detergents and liquid disinfection which can present safety risks and harmfulness for users and the environment (pollution). Moreover, these chemical solutions are designed and implemented separately, first cleaning products then disinfection products.</p> <p>Current environmental and regulatory trends tend to lower the impact of these Hygiene procedures. The ECADOS project (acronym for Enzymatic Cleaning & Airborne Disinfection of Open Surfaces) will answer these industrial needs by bringing an innovative solution for responsible hygiene management, which takes into account the future environmental and regulatory obligations.</p> <p>The ECADOS project will therefore focus on developing and qualifying new hygiene procedures based on 2 high-performance technologies coupling: open surface enzymatic cleaning and airborne disinfection (technology of diffusion of dry aerosols) and thus ensuring:</p> <ul style="list-style-type: none">- Efficient cleaning by in-deep bio-organism destruction: guaranty of high level of hygiene throughout the industrial process thanks to efficiency testing at each step- Lower impact on Human Health and Environment by decreasing water, energy and chemicals needs- Easier and more secure cleaning procedures: lowering duration of cleaning procedure, breakdown of impurities to a smaller size thus avoiding pipe clogging, etc. <p>The project will have to overcome several technological challenges including:</p> <ul style="list-style-type: none">- Secure the use of enzymatic detergents and determine their utilisation boundaries and conditions



	<ul style="list-style-type: none"> - Optimise the product formulation depending on exposure values - Improve treatment efficiency <p>The performance of ECADOS solution will clearly overcome current cleaning / decontamination offer thanks to a new approach of responsible and rational hygiene.</p>
Partner type:	Industrial partner with expertise in enzyme extraction and/or know-how in enzyme formulation for optimising and qualifying enzymatic cleaning formulations and their use on-the-field and private or public laboratory with expertise in bio-films and other surfaces contaminants detection and characterisation for developing and validating dirtiness qualification methods and enzyme detection procedures.
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)</p> <p>For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>

Partner Search 13

Theme:	FOOD QUALITY AND SAFETY
Title:	Research in dairy products / vegetables puree.
Deadline:	12/09/2009
Organization type:	Public Body



Country:	FRANCE
Abstract:	Provision of solutions to risk detection related to bacillus cereus knowledge, skills and expertise for the improvement of processes in the food industry.
Description:	<p>The aims of the project are the following :</p> <ol style="list-style-type: none">1) to define a method in order to perform challenge tests with B. cereus2) to apply this method on food products which could contain B.cereus (i.e. dairy products and vegetables purees)3) to model the obtained results <p>Technical Specifications / Specific technical requirements of the request</p> <p>Actually, the consortium expects from SME partners the following aspects :</p> <ul style="list-style-type: none">- to select a food product which could contain B.cereus (i.e dairy products)- to give members of the consortium all the possible information on its food process, shelf-life, and cold chain- to perform or to get performed challenge tests by a laboratory on the studied product.
Partner type:	SMEs active in the food industry for performing challenge tests by a laboratory on the studied products.
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)</p> <p>For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>



Partner Search 14

Theme:	INDUSTRIAL TECHNOLOGIES
Title:	Metallurgical competences for a research project.
Deadline:	30/10/2009
Organization type:	University
Country:	GERMANY
Abstract:	Expansion of knowledge about historical European exchange processes through different analysis of ancient knight's armours within Europe.
Description:	<p>A German researcher would like to build a project team for an interdisciplinary European project. The aim of the project is to proceed in explaining European history and development paths in combining cultural and technological research methods for the analysis of knight's armours within Europe.</p> <p>For the technological analysis (composition, forging and milling processes), knowledge and technologies of chemical and process metallurgy for ancient and sensitive materials are sought.</p> <p>The project is planned to be submitted in next suitable FP7 calls or in the CULTURE programme which address interdisciplinarity in cultural heritage and cultural sciences.</p> <p>Technical Specifications / Specific technical requirements of the request</p> <p>The potential partners should provide background know-how and equipment (e.g. tomography) to perform research on ancient and sensitive metals to provide insights about forging and milling techniques and processes as well as about chemical composition.</p>
Partner type:	Research organisations or SMEs active in the field of metal processing with background knowledge in historical processing for chemical and processing analysis of the armours.
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>



	For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)
	For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)
	For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)

Partner Search 15

Theme:	MANUFACTURING
Title:	Advanced materials architectures for efficient energy storage.
Deadline:	10/09/2009
Organization type:	Industry
Country:	GERMANY
Abstract:	Development of efficient energy storage systems by using radically new materials and processes and new electrode designs based on nanomaterials, nanostructures or bio-inspired materials.
Description:	<p>NMP-FP7-2010-2.6-1 Advanced materials architectures for efficient energy storage</p> <p>Technical content/scope: The development of new highly efficient energy storage systems is crucial in many application sectors, such as electricity storage, electrical vehicles or portable electronic devices, and it involves increasingly complex materials architectures in order to control the reactivity, cyclability and durability of such devices. The research should aim at radically new materials, processes and syntheses approaches, and at new electrode design based on nanomaterials, nanostructures or bio-inspired materials. In particular, efforts should be devoted to the understanding of interfacial phenomena (charge transfer and transport mechanisms). Whenever possible, computational modelling tools should be used to help design efficient energy storage systems in term of energy density, energy efficiency, power density, capacity, rechargeability and charge storage capabilities. The project proposals should include really innovative materials research and multidisciplinary partnerships, and also address material life cycle assessment, and in particular recycling.</p>



Funding Scheme: Small and medium scale focused collaborative project, carried out as a coordinated or joint call with Themes 5 "Energy" and 7 "Transport" (DG RTD Directorates K and H). The possibility to carry out projects in coordination with the DoE (USA) and NIMS (Japan) will be explored.

Special features: To be elaborated as a function of the participating funding Parties.

1. Background and aims

The storage of energy became a key issue during the past several years, due to increasing exploitation of renewable energy sources. For example electrical vehicles require lightweight batteries or supercapacitors with high energy density. To date, this field is dominated by lithium-ion systems based on transition metal oxide cathodes and graphite anodes. It has already been shown that the performance of storage materials can be increased by coatings, and moreover that nanostructured particles can improve the overall performance further. It is envisaged to synthesise nanostructured and monodisperse core/shell nanoparticles from abundant elements (e.g. LiFePO_4/C), to characterise and optimise them fully, and to construct prototypes of batteries using these new materials. This approach will involve the synthesis of radically new nanomaterials, their full electrochemical characterisation (charge transfer, transfer mechanisms), new electrode design and optimisation of the whole systems. These goals rely on close multidisciplinary collaboration between synthetic nanochemistry, surface science and technology, physics and engineering.

2. Partners

UK University with Expertise in:

- Synthesis of complex nanostructures by various methods (including flow-through methods)
- Electrochemical characterisation of nanomaterials
- Morphological characterisation of nanomaterials (e.g. Transmission electron microscopy (TEM), energy dispersive X-Ray scattering (EDXS), etc)
- All standard wet-chemical methods and characterisation

Ideas and contributions for the project:

- Function through (nano-)structure: viz. synthesis of well defined battery nanomaterials
- New materials: searching for new battery nanomaterials in collaboration with industrial partners (focus on abundant elements)
- New efficient synthesis methods: flow-through methods will be established for large-scale synthesis of the materials
- Full electrochemical and morphological characterisation of the materials and feed-back into optimisation of the synthesis

German Institute

that develops and manufactures components in microelectronics and



	<p>microsystems technology, from the design phase ; including system simulation ; to prototyping and fabrication of samples, up to series production.</p> <p>The institute offers a wide portfolio of services in the field of secondary lithium batteries:</p> <ul style="list-style-type: none">-Characterization of battery raw materials by half cell as well as full cell testing-Optimisation of formulation of secondary battery components (electrode, separator) with regard to application profiles-Design of cells according to given boundary conditions-Prototyping and limited-lot manufacturing of cells-Comprehensive testing of secondary batteries with regard to the specific requirements (life cycle, energy density, power density, operation conditions) <p>Additional services are:</p> <ul style="list-style-type: none">-Preparation of studies-Failure analysis-Testing (electrical, mechanical, reliability etc.) <p>German Company</p> <p>The company is mainly involved in industrial R&D projects including works in light, energy storage or medical technology. A consolidated knowledge in the field of surface technique enables the company to develop high quality coatings and to perform surface modification with a variety of methods like PVD, CVD, Sol-Gel, ion beam and plasma treatment. Due to a large spectrum of devices in the field of surface analytics (XPS, AES, SEM, AAS, IR, electrochemical analyses, etc.) The company is able to perform detailed surface characterizations to determine the performance of coatings.</p> <p>The company has profound expertise in the field of secondary lithium-ion batteries including</p> <ul style="list-style-type: none">-electrode production and optimization (both cathode and anode),-electrolyte stability measurements,-analyzing the solid-electrolyte-interface (SEI),-assembling prototype cells and-performance testing of the produced prototypes. <p>The company is interested in investigating new nanomaterials in electrodes for their potential as active battery materials. It plans to combine its own development of a porous electrically conducting electrode with different active nanomaterials to achieve an outstanding battery performance.</p>
Partner type:	Industrial partners active in the field of materials, battery manufacturing or implementation of secondary batteries into their products and partner from academia in the field of materials or simulation.
Further information:	<p>For Moldova</p> <p>Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p>



	For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)
	For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)
	For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)
	For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)
	For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)

Partner Search 16

Theme:	TRANSPORT
Title:	Soft tracks for caterpillar vehicles.
Deadline:	18/09/2009
Organization type:	Industry
Country:	FRANCE
Abstract:	Development of a novel type of soft tracks with high resistance characteristics (band lifetime, maximum speed, heat and abrasion) and low impact on its environment for use on any terrain typology.
Description:	<p>A French SME specialised in the development of vehicles for harsh environment is putting up a Eureka project on a new type of caterpillar tracks that would be able to run both on roads as well as in any harsh environment at high speed. This novel type of soft tracks will have high-level characteristics regarding band lifetime, maximum speed, heat and abrasion resistances. One of the characteristics of the tracks would be to reduce its mechanical impact on land (to preserve the environment). This development includes some R&D related to the band material.</p> <p>Common soft caterpillar track bands are made of rubber, which cannot satisfy the desired technical characteristics. To implement the required</p>



	<p>properties, the material has to be developed or even completely customised. The SME coordinator, already in charge of other technology development for the project, doesn't have these competences in-house and wishes to build-up a Eureka project with a partner (SME or Research lab) able of developing the new type of band and to produce it at small scale.</p> <p>Material technical specifications: The partner sought should be able to produce and/or develop soft junction-free caterpillars (or rubber bands) which can fulfil the following technical characteristics:</p> <ul style="list-style-type: none">- maximum speed of 60km/h during 5% of time of use (on flat tarmac and with unloaded vehicle) ; this data can be discussed according to technical feasibility and lowered down to 40km/h- maximum load per caterpillar: 4T (then maximum speed of 15km/h on flat ground or lower speed on steep slopes)- limited permanent strain/lengthening of caterpillar band, taking into account traction load and time of use- ground pressure limited to 250g/cm² max- good heat resistance that enables passage on hot spots like embers- good mechanical resistance for a use on any type of ground (marsh, sand, stones, tarred road.) and any terrain typology to ease clearing/crossing of any obstacles like steep slopes, banking, stairs. <p>The final vehicle that will be using these caterpillars will be pulled by a chain wheel and the caterpillar tension damping will be carry out by pressure vessels & cylinder jack type of system.</p> <p>Development stage: Proposal Under Development European funding source(s): Eureka Type of Project: FP7 Collaborative Research</p>
Partner type:	<p>SMEs or research partners with a small production capacity for the development of rubber-band of the new caterpillar tracks or for developing a new material that will correspond to the expected physical properties. The partner will also have to carry out characterisation and testing and to be able to produce the material at a small scale (< 1T/year)</p>
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>



	For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr) For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)
--	--

Partner Search 17

Theme:	ENERGY
Title:	UMG solar silicon module.
Deadline:	01/12/2009
Organization type:	RTO
Country:	ITALY
Abstract:	Development of a solar photovoltaic module using Upgraded Metallurgical Grade (UMG) solar silicon.
Description:	The cost of silicon is very high. It is possible to produce solar silicon by purification of metallurgical silicon up to 99,9999% with a 1/3 of cost on total module cost. The project intends to realize a module with such silicon with 30% less cost and 15-16% efficiency. The trials will be multi and monocrystalline growth.
Partner type:	Two SMEs in the solar market active in the solar wafer or solar cell manufacturing sector.
Further information:	For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr) For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr) For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr) For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)



	For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr) For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)
--	--

Partner Search 18

Theme:	ICT
Title:	Advanced Irrigation System based on Artificial Intelligence.
Deadline:	01/09/2009
Organization type:	Service Sector
Country:	SPAIN
Abstract:	Development of an Advanced Irrigation System using Artificial Intelligence which will achieve maximum water efficiency and provide online ground status monitoring and control options while performing on a fully automated mode.
Description:	<p>The main objectives of the project are:</p> <ul style="list-style-type: none">- Optimize the amount of water needed for irrigation, ie to achieve maximum water efficiency, controlling that the amount of water on crops is the optimum to fulfil the requirements of the target plantation.- Fully automated systems. Thanks to its intelligent core, the system will not require any action by the user as the system will make decisions on a completely autonomous manner- The system will allow for the online ground status monitoring as well as provide the owner with a remote control of the system which will inform about the key parameters of the culture, suggesting the most appropriate action, permitting the user to operate on irrigation devices deployed in the field. <p>Thus, the project will develop two different stages:</p> <ul style="list-style-type: none">-Software implementations based on the development of intelligent algorithms for irrigation decisions, user interfaces and intelligence documents.-Hardware implementations. Development of a tailor-made device for measuring, controlling the key parameters of the land and developing a



	<p>system of wireless communication between the measuring probe, the user and the irrigation devices.</p> <p>By using new technologies as wireless sensor networks, the system will be fully scalable and adaptable to different plots sizes. One of the main characteristics of the system will be an easy user's interface</p> <p>The project will be around two years and about 1 M</p>
Partner type:	<p>Manufacturing enterprises which will design and develop the measuring system (sensors, mechanical and electrical implementation). Moreover, the partner would carry out the testing of the adaptability between the intelligent system and the irrigation systems (electro valves and commercial irrigation controllers already known in the marketplace).</p>
Further information:	<p>For Moldova Constantine Vaitsas (vaitsas@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Ukraine Panagiotis Karniouras (karniouras@help-forward.gr) Nikos Melanitis (nikos@help-forward.gr)</p> <p>For Belarus Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Armenia Anastasia Constantinou (nats@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p> <p>For Azerbaijan Apostolos Dimitriadis (adimi@help-forward.gr) Epaminondas Christofilopoulos (Epaminondas@help-forward.gr)</p> <p>For Georgia Apostolos Dimitriadis (adimi@help-forward.gr) Vassilios Tsakalos (vtsak@help-forward.gr)</p>