



Boletín nº 151 de Oportunidades de Cooperación: Medio Ambiente

(Febrero 2017)

Oportunidades de Colaboración

1.- Ofertas Tecnológicas

Temática	Referencia	Título
Tecnologías Ambientales y Residuos	TOFR20161123001	A French contract research and technical organization offers services for valorisation of agricultural and agrifood using clean extraction technologies.
Tecnologías Ambientales	TOUA20161214001	Efficient low temperature green technology for neutralisation of persistent organic pollutants and haloaromatic production waste
Tecnologías Ambientales	TOUA20170118002	Specialist geo-information system for data integration and mining
Tecnologías Ambientales	TOSK20170103001	Powerful composite sorbent for the removal of contaminants from water
Tecnologías Ambientales	TOFR20170117001	Ultra high pressure water asbestos removing device and decontamination of concrete area
Tecnologías Ambientales	TOBE20161221001	Integrated software for water quality assessment
Tecnologías Ambientales	TOIT20170119001	Cogeneration from biomass gasification: a fully integrated, automated and containerised plug-and-play solution for Combined Heat and Power production from natural renewable sources.
Residuos	TOUA20161226001	Technology for integrated plastics/rubber recycling into useful products

2.- Demandas Tecnológicas / Comerciales

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Tecnologías Ambientales	TRBE20170120001	Sensors for Air Quality Monitoring and Air Quality Solutions
Tecnologías Ambientales	TRKR20161129007	Ground inspecting technology sought
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3.- Búsquedas de Socios

Temática	Referencia	Título
Tecnologías Ambientales	RDEE20170120001	A Consortium coordinator is looking for partners for a H2020 call on nature-based solutions for inclusive urban regeneration
Tecnologías Ambientales y Residuos	RDES20170131001	H2020: public procurement organisations with expertise in waste and soil decontamination are being sought
Tecnologías Ambientales	RDFR20170113001	Eurostars : A French coordinator needs a Danish SME for a project about air pollution monitoring
Tecnologías Ambientales	RDES20170123001	INTERREG SUDOE: searching for public administrations, biodiversity research centres or natural resources
Residuos	RDES20170113001	H2020: seeking SMEs with innovative water technologies

Medio Ambiente:
Tecnologías Ambientales

Research & Development Request

A Consortium coordinator is looking for partners for a H2020 call on nature-based solutions for inclusive urban regeneration

Summary

An Estonian NGO, who is currently in the process of creating a project Consortium, seeks to involve 1-2 frontrunner cities and at least 3 follower cities as well as respective local partners (e.g. industry partners, NGOs, SMEs and universities) to further develop a project idea for the H2020 call "Demonstrating innovative nature-based solutions in cities" (SCC-02-2016-2017), which focuses on issues of inclusive urban regeneration in 2017.

Creation Date	20 January 2017
Last Update	23 January 2017
Expiration Date	23 January 2018
Reference	RDEE20170120001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/bbf89e2f-9009-4b8d-bb75-2e3c668b4ba9

Details

Description

Under SCC-02-2016-2017, the challenge is to provide EU-wide evidence and develop a European reference framework of nature-based solutions for city authorities, communities, enterprises and other stakeholders about the benefits and economic viability of these solutions. In 2017, the focus is on inclusive urban regeneration in cities, e.g. issues like derelict industrial sites, disfunctioning urban areas, increased criminality, social exclusion, inequalities, marginalization and poverty.

The first-stage proposal is due on 7 March 2017 and the 10 pages of proposal will outline the overall concept of the project, i.e. the specific objectives, methodology, ambition and expected impact. At this stage, the aim is to involve 1-2 frontrunner cities and at least 3 follower cities as well as the respective local partners (e.g. industry partners, NGOs, SMEs and universities) to further advance a project idea that the coordinator is developing together with an Estonian city, one of the project's frontrunner cities.

The overall objective of the project is to:

- * Deploy a number of innovative nature-based solutions that focus on inclusive urban regeneration in the pilot areas of the frontrunner cities;
- * Set up a monitoring system to provide evidence of the benefits and economic viability of the deployed solutions;
- * Assist the follower cities in developing sustainable urban planning that proceeds from the frontrunner cities' experience and lessons learned;
- * Develop methodologies for replicating and upscaling the frontrunner cities' solutions in various

contexts (incl. investments strategies, governance and business models);

* Disseminate and promote the project results through smart city networks and communities.

Technical Specification or Expertise Sought

The coordinator is looking for city authorities who would either act as frontrunner or follower cities and who would put together the local partnerships (involving e.g. universities, industry partners, SMEs and NGOs).

Stage of Development

Proposal under development

Comments Regarding Stage of Development

Currently, negotiations are ongoing with several cities across Europe, but the final Consortium will be specified in the beginning of February 2017.

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Environment

Client

Type and Size of Organisation Behind the Profile

Other

Year Established

1996

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Experience Comments

The NGO is an independent non-profit research and development think tank in Estonia.

Languages Spoken

English

Client Country

Estonia

Partner Sought

Type and Role of Partner Sought

First and foremost, the coordinator is looking for cities that are interested in joining the Consortium. However, the cities will be expected to form their local partnerships, including e.g.:

*Environmental science/engineering (ecology, civil engineering, hydrology etc.)

*Business studies (business models, exploitation plan etc.)

*Social sciences and humanities (co-design, co-implementation, participation, social acceptance etc.)

*Political sciences, economics, governance (legal, societal and market challenges, urban planning disciplines etc.)

*Industry partners/SMEs from relevant sectors (innovative solutions, ICT, communication strategies etc.)

Type and Size of Partner Sought

SME 11-50, University, Inventor, R&D Institution, SME <10, >500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Research cooperation agreement

Research & Development Request

H2020: public procurement organisations with expertise in waste and soil decontamination are being sought

Summary

A Spanish R&D centre specialised in soil and water decontamination technologies is writing a proposal for the call H2020- SC5-26-2017 (Pre-commercial procurement on soil decontamination). The aim of this project is the launch of a Pre-Commercial Procurement process to find common innovative and sustainable solutions for soil decontamination/remediation. They are looking for public procurement organisations with expertise in waste and soil decontamination.

Creation Date	31 January 2017
Last Update	02 February 2017
Expiration Date	02 February 2018
Reference	RDES20170131001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/fb0fafe1-d355-447d-ad5d-32b54de8000d

Details

Description

Soil contamination is typically caused by industrial activity, mining and smelting practices, agricultural chemicals or improper disposal of waste and is increasingly becoming a very serious environmental and health problem. In addition, public authorities make efforts to establish decontamination strategies, they face budget constraints and difficulties for finding the best-available and optimal solutions.

The proposal shall address such constraints by creating a strong and selected network of buyers and stakeholders who jointly evaluate and test ready-to-market and innovative solutions for a proposed set of soil contaminated sites. The proposal will also address the creation of jobs, new businesses and economic growth resulted from the Pre-Commercial Procurement process. The proposal shall take into consideration sustainable remediation technologies and sustainable management strategies.

Particular objectives can be summarized as follows:

- Launch of a Pre-Commercial Procurement process to find common innovative and sustainable solutions for soil decontamination/remediation
- Identify radical and innovative improvements to the quality and efficiency of public soil decontamination services, processes and products.
- Evaluate, test and deliver successful innovative and fully tested product(s) and/or service(s) specifically for contaminants such as metals from industry, chlorinated hydrocarbons and/or acid tars lagoons.

The consortium is already integrated by a R&D institution with a broad knowledge and expertise in soil contamination as well as a regional public procurement agency in soil decontamination

and who has keen interest to find similar European organisations to establish a network for future collaborations.

H2020-SC5-2016-2017: Pre-commercial procurement on soil decontamination

Call deadline: 07/03/2017

Deadline for EOIS: 17/02/2017

Stage of Development

Proposal under development

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

Public procurement organisations with expertise in waste and soil decontamination are being sought.

Task to be performed:

- Participate as “buyers group”
- Evaluation of technologies and innovative solutions
- Activities for the follow-up of the joint procurement

Type of Partnership Considered

Research cooperation agreement

Research & Development Request

Eurostars : A French coordinator needs a Danish SME for a project about air pollution monitoring

Summary

A French SME is preparing a Eurostars project to be submitted on the 02.03.17. The aim of the project is to develop sensors for detecting the air quality / concentration of air pollutants, and translate the information into instant and forecast mapping of air quality. The consortium includes a Danish university and is looking for a Danish SME either as an end user (exploiting the air quality map) or as a potential installer and operator of the sensors in Danish large cities.

Creation Date	13 January 2017
Last Update	01 February 2017
Expiration Date	14 January 2018
Reference	RDFR20170113001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b1dc9134-3492-495e-bdba-8650ad26907f

Details

Description

The quality of air and air pollution are becoming serious questions for most of the bigger cities all over the world with plenty of days each year with alarming levels of air pollution, the need for reliable and predictable information at a reasonable price level is getting more and more important.

A French SME is developing a system of sensors to be installed in large cities all over the world in order to provide information on the quality of the air and the level of different air pollutants and assimilate the information into instant or predictive maps of air quality.

The French SME will be the coordinator of the project, a French research centre and a Danish University are part of the consortium too. Moreover, a large European company has been contacted to be either partner or subcontractor.

The consortium is looking for a Danish SME to join the project either as end user or as potential installer and operator of the sensors in one or more large Danish towns to be equipped as test areas during the project.

The building of the proposal has started.

Estimated Duration: 36 months
Call Deadline: 02.03.2017
Deadline for EOIs: 15.02.17

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Send to Sector Group

ICT Industry and Services

Restrict Dissemination to Specific Countries

Denmark,

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

French

Client Country

France

Partner Sought

Type and Role of Partner Sought

The French coordinator of the project is looking for a Danish SME to join the consortium to complete either (or both) of the following two roles:

- as an end user to explore the instant mapping of the air pollution of one or more big towns in Denmark chosen to test the system. For example, the partner could be a provider of health information or a provider of information to people doing outdoor activities, ...
- a manufacturer or provider of urban furnitures/facilities interested in installing the sensors in one or more big Danish towns to test the system, and exploit the information (i.e. instant information on air quality in bus stops...)

Type and Size of Partner Sought

SME 11-50, SME <10, SME 51-250

Type of Partnership Considered

Research cooperation agreement

Research & Development Request

INTERREG SUDOE: searching for public administrations, biodiversity research centres or natural resources.

Summary

A Spanish University is developing an INTERREG SUDOE project. The proposal aims to provide a joint response to the management of biodiversity in transboundary areas in France, Portugal, Andorra and Spain. To detect key places for joint action in protected spaces analysing with remote sensor data the current state of these areas, studying the connectivity of these protected spaces. It is interested in collaborating with public administrations, biodiversity research centres or natural resources.

Creation Date	23 January 2017
Last Update	31 January 2017
Expiration Date	31 January 2018
Reference	RDES20170123001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/98bcffeb-db0c-4159-9fbf-8294e131d38b

Details

Description

Currently, most of the endangered or vulnerable species are distributed along the main protected areas of France, Spain, Portugal and Andorra. It is right on the borders of these countries, coinciding with the main mountain ranges and river courses, where it find large areas destined for the conservation and protection of these species.

Although the Natura 2000 network provides a common framework for action to manage both protected areas and the species and habitats indexed in its Annexes, it is necessary to offer joint action in France, Spain, Portugal and Andorra for observation, conservation and management of protected areas along their borders.

The following actions are planned for the enhancement of this proposal:

1. Identifying the key natural spaces that allow connectivity along the borders of different countries.
2. Analyzing the state of conservation of these spaces and their evolution with data from remote sensors, field work and information available from public bodies.
3. Selecting threatened species and studying their conditions in France, Spain, Portugal and Andorra.
4. Studying the connectivity of selected species in protected areas along the borders of these countries.

This proposal will be developed within the scope of biodiversity management, management of protected spaces, remote sensing and Geographic Information Systems (GIS).

This project will focus mainly on the identification of Natura 2000 areas in transboundary spaces, analyzing their current state of conservation (species and habitats) by means of remote sensing techniques combined with analysis in GIS. In this first phase it is planned to identify the most important areas of action as well as the key species for which to develop the study of connectivity between these Natura 2000 cross-border spaces. Through the analysis of morphological patterns (MSPA) it will be possible to identify the functions that each part of the territory will fulfill to guarantee the connectivity of these species along these transboundary spaces. The combination of this analysis with graph theory will make it possible to obtain the most important regions to maintain and favour connectivity.

As a result of all the above analysis, it is planned to obtain the regions of the transboundary territory in which it will be more important to undertake measures of management and conservation of the habitats of the species studied.

This proposal will be presented in the Interreg V program, Interreg SUDOE, 2nd call, within priority axis 5, on "Environment and Resource Efficiency". The deadline for submission will expire on March 31, 2017, and it is expected to have the expressions of interest until February 17, 2017.

Given the implications of this proposal, partners from biodiversity research centres or natural resources management, also public administrations, in Spain, Portugal, France and Andorra are sought.

Advantages and Innovations

This project aims to analyze the network of protected natural spaces in the SUDOE space to detect the key spaces to ensure connectivity management, with special emphasis on flag species, very threatened in each of the countries. The main results of this action will be:

Selection of protected areas of interest for the joint conservation of biodiversity in transboundary spaces SUDOE.

Analysis of the conservation status of the transboundary protected areas SUDOE.

Analysis of the connectivity of transboundary protected areas SUDOE.

Proposed major action areas to ensure the connectivity of threatened species in protected areas transboundary SUDOE.

Plans for the joint management of protected areas.

Actions to protect endangered species.

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Restrict Dissemination to Specific Countries

France, Portugal, Spain,

Client

Type and Size of Organisation Behind the Profile

University

Year Established

1997

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

To build this consortium, the lead partner is looking for partners from cross-border regions of Portugal, Spain and France, namely:

- Universities and Research Centers: specialized in remote sensing, biodiversity conservation and connectivity. R&D success promotion, sharing best practices.
- Regional Administration: interested in promoting cross-country management plans for Natura 2000 spaces.
- Public authorities to contribute on knowledge share of regulations and legislations on biodiversity conservation and species protection.
- NGOs to contribute on environmental and biodiversity conservation aspects.

Type and Size of Partner Sought

University, R&D Institution

Type of Partnership Considered

Research cooperation agreement

Technology Offer

A French contract research and technical organization offers services for valorisation of agricultural and agri-food using clean extraction technologies.

Summary

A French contract research and technical organization is specialized in supercritical and subcritical fluid technology. These clean extraction technologies consist in developing extraction processes of high added value components from plant raw materials or waste from agri-foods and wine growing industries. The organization is interested in working with companies and research and development institutions in the frame of a Technical cooperation agreement or research cooperation

Creation Date	09 January 2017
Last Update	30 January 2017
Expiration Date	30 January 2018
Reference	TOFR20161123001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/552aac37-0241-4813-b0df-b5ad0f597a22

Details

Description

The organization provides support to companies and laboratories willing to acquire knowledge, test and use subcritical and supercritical fluids technologies.

This technology use higher pressure (up to 1000 bars) in order to increase extraction yield for agri-biomass or to get highly valuable compound of interest for nutraceutical or cosmetic applications without using any organic solvent.

The organization can assist and support companies or laboratories from the diagnosis to the implementation of their projects.

The organization can carry out R&D projects in the exploration phase of supercritical and subcritical technologies. Processes addressed include extraction by supercritical CO₂ and extraction by subcritical water and make scale-up of processes on semi-industrial equipment.

The organization is interested in working with companies and laboratories seeking to participate in European collaborative research projects as one of the partners. The organization is also interested in supporting laboratories and companies in the frame of technical cooperation agreement.

Advantages and Innovations

The organisation has a laboratory with state-of-the-art equipment from a few millimetres to several litres. Processes addressed include extraction by supercritical CO₂ and extraction by subcritical water.

Extraction by subcritical water, also called hot water, water under pressure, overheated water allows operators to:

- Avoid using organic solvents
- Work directly on damp matter without any drying stage
- Get oils with more odorous components in comparison with standard processes
- Extract phenolic antioxidants weakly soluble in water at ambient temperature and pressure
- Improve selectivity and avoid extraction of co-products.

The organization has experience in collaborative research projects.

Stage of Development

Already on the market

Comments Regarding Stage of Development

The technology is mature but specific to the process required. It is already on the market for many products but may need scaling up.

IPR Status

Other

Profile Origin

Other

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

2006

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
French

Client Country

France

Partner Sought

Type and Role of Partner Sought

The organisation looks for farming or wine growing companies or laboratories needing supercritical and subcritical fluid technologies for the development of their project, research and technical cooperation agreement.

Type and Size of Partner Sought

SME 11-50, University, Inventor, R&D Institution, SME <10, >500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement

Technology Offer

Efficient low temperature green technology for neutralisation of persistent organic pollutants and haloaromatic production waste

Summary

A new highly efficient low temperature green technology for neutralization of persistent organic pollutants (POP's) has been developed on the basis of catalysis of haloarene hydrodehalogenation reaction by carbene complexes of palladium by Ukrainian scientists. They are looking for academic and industrial partners in the catalysis and environmental protection fields, for improving and testing the technology under a research cooperation.

Creation Date	14 December 2016
Last Update	16 January 2017
Expiration Date	16 January 2018
Reference	TOUA20161214001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b58ee77e-aa13-4f9f-a0f1-e960e991f9ca

Details

Description

The new patented technology allows carrying out the neutralization process with sodium or potassium hydroxides or alkoxides under mild conditions (at 80 C or at room temperature) in alcoholic media. It does not require special equipment and absorbers and allows saving energy. Due to high catalytic efficiency and little quantities used, the catalyst can be produced for industrial aims by the developers in a laboratory or in a semi-industrial scale. A series of highly efficient catalysts of the reaction has been developed for this technology. Joint development of the technology is proposed to increase additionally the efficiency of the neutralization process and to carry out joint industrial utilization of the technology. During the proposed work the most efficient catalysts of the haloarene hydrodehalogenation reaction and/or the efficient catalysts of multiple use must be synthesized. The client is looking for partners for the research cooperation agreement.

Advantages and Innovations

Relative to the known solutions in removal of POPs the proposed technology thanks to a highly efficient catalytic haloarene hydrodehalogenation reaction, allows 12-33 times exceed the efficiency of the best known process (from 1000-25000 to 320000-330000 catalytic cycles).

Stage of Development

Under development/lab tested

IPR Status

Granted patent or patent application essential

Profile Origin

Other

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Environment

Restrict Dissemination to Specific Countries

Russia,

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

1975

Turnover

50 - 100M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

Client Country

Ukraine

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: Industry,R&D Institution
- Specific area of activity of the partner: neutralization (detoxification) of persistent organic pollutants (POP's)
- Task to be performed by the partner sought: joint improving and testing the technology

Type and Size of Partner Sought

University,R&D Institution,SME 51-250

Type of Partnership Considered

Research cooperation agreement

Technology Offer

Specialist geo-information system for data integration and mining

Summary

A Ukrainian University of Dnepr city offers a software product for monitoring of mineral resources, environmental conditions, forecasting of seismically hazardous events. Advantages - complex processing of various spatial data, operate on Windows, user-friendly interface with built-in hint system. The university is looking for companies for commercial agreement with technical assistance and R&D Institutions for technical cooperation agreement in geological exploration and mineral mining.

Creation Date	19 January 2017
Last Update	25 January 2017
Expiration Date	25 January 2018
Reference	TOUA20170118002
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/f5be6b0a-4c6c-4b9a-b938-cb6501fcf815

Details

Description

The University has a long-term experience of training staff, R&D and applied research, solving practical problems for mining industry and efficient usage of energy resources. An integrated approach allows not only to offer engineering solutions, but also to optimize the entire system on the basis of the automatic control systems and software that enable monitoring of any process. The developments and projects of the University are used in many sectors of economy. The researcher of the University developed powerful tool of integrated intellectual analysis of spatial data RAPID GIS (Recognition, Automated Prognoses, Interpretation of Data). This software combines the possibilities of storage, processing, spatial data visualization and their intellectual analysis by Data Mining methods.

RAPID GIS allows to perform complex processing and analysis various of spatial data – the results of geochemical, geological and geophysical, landscape shots, cartographic materials, space images and data obtained in mines. Data can be provided in a vector, grid and raster forms and converted from one to another. The system includes a core that provides data management, as well as a set of modules, grouped in the following functional subsystems: data management, transforms calculation, lineament analysis, comprehensive data analysis, forecasting, graphics.

In total, the RAPID GIS includes more than 70 functional modules with a single user interface in English and Russian versions. RAPID provides analytical, information and referral, and measuring functions; data pre-processing; construction of related maps, research of dependencies and statistical analysis, detection, clustering and classification of objects and phenomena; mapping of situations, 2D and 3D-visualization of data, layout and printing of output documents. It supports import and export in Surfer, ArcGIS, ArcView, Micromine, AutoCAD and other formats. RAPID GIS differs from other computer systems solving problems

of bowel studying by its focusing on wide application of Data Mining methods for the complex processing of miscellaneous-altitude information - borehole, ground surface and space. The staff is equipped with all necessary equipment and software and has a long-term experience in solving geological problems using RAPID GIS, which is used in the deposits of Ukraine, Kazakhstan, Uzbekistan, Germany and other countries.

The university is looking for partners such as industrial companies and local authorities for commercial agreement with technical assistance for developed GIS. It can be as its acquisition followed by its technical support, as the joint solution of geological and environmental problems, environmental monitoring problems of the environment and subsurface situation. The team has an opportunity to solve these problems on the basis of the contract on outsourcing. Also welcomed R&D Institutions for the scientific and technical cooperation in order to improve the GIS RAPID or the own developments of a partners are also welcomed

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Environment

Client

Type and Size of Organisation Behind the Profile

University

Year Established

1899

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
Russian

Client Country

Ukraine

Partner Sought

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

Technology Offer

Powerful composite sorbent for the removal of contaminants from water

Summary

Established Slovak scientific research institutes have developed a highly effective composite sorbent for the removal of contaminants from water for drinking purposes. These are mainly heavy metals such as arsenic, antimony, chromium, cadmium, lead and others. The composite sorbent can be also used in wastewater treatment, including wastewater from chemical and electronic industry. The institutes are looking for an industrial partner for licensing the technology or to engage in contract research.

Creation Date	04 January 2017
Last Update	18 January 2017
Expiration Date	18 January 2018
Reference	TOSK20170103001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/fedcba2f-5fde-4fe7-8d43-7963c7878c7e

Details

Description

Contamination of water is a global problem. Among the most frequently occurring contaminants in water are heavy metals such as arsenic, antimony, cadmium, mercury, chromium ions, nickel, lead and others, as well as waste products from various industrial productions. The proposed technology represents highly effective and inexpensive method of removal of such contaminants.

The developed composite sorbent is prepared by controlled carbonization of fibrous cellulose raw materials which are annually produced in billions of tons by nature (resulting in a significant reduction of production costs of the sorbent). The resulting nanoporous carbon fibers are modified with hydrated iron oxides entrapped in the pores and on the surface of the fibers. The original molecular structure of the sorbent facilitates the achievement of a synergy effect of carbon and iron oxide, and provides not only a high efficiency but also a high rate of contaminant capture. The physical structure of the composite sorbent reduces the resistance to water flow, and its efficiency in removing contaminants is in the area of practical applicability independent from water pH.

Main physical properties of nanoporous carbon fibers are:

- Length: 20 microns to several cm
- Diameter: 10 to 50 microns
- BET (Brunauer, Emmett and Teller) surface area: several m²/g to almost 2000 m²/g

The proposed sorbent can be used in the treatment of water for drinking purposes, as well as in the treatment of wastewater from chemical and electronic industry. An extensive use of the

composite sorbent is assumed in areas struggling with the contamination of drinking water, such as several countries in Asia. These are often areas where the input material poses a waste and by that an important ecological load on the environment.

The developed composite sorbent is significantly more effective than the top commercially available sorbent, often several times. In laboratory tests residual concentrations of heavy metals were achieved that comply with limits for drinking water.

The institutes are looking for an industrial partner for licensing the technology or to engage in contract research.

Advantages and Innovations

- High removal efficiency of heavy metals: arsenic 97.8%, antimony 97.6%, chromium 96.4%, cadmium 88.9%, lead >98.9%
- Low production price achieved by using input raw materials from plant wastes
- Up to 163% more effective than other commercial products, depending on the type of contaminant

Stage of Development

Prototype available for demonstration

IPR Status

Patent(s) applied for but not yet granted

Comment Regarding IPR status

Pending patent application in Slovakia.

Profile Origin

National or Regional R&D programme

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

1967

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Slovak

Client Country

Slovakia

Partner Sought

Type and Role of Partner Sought

- Type of partner sought:

The institutes are seeking an industrial partner for licensing the technology or to engage in contract research.

- Specific area of activity of the partner:

- for licensing - no preference
- for contract research - no preference

Type and Size of Partner Sought

SME 11-50, SME <10, >500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

License agreement

Research cooperation agreement

Technology Offer

Ultra high pressure water asbestos removing device and decontamination of concrete area

Summary

A French SME active in the field of development of asbestos removing devices has developed a new system based on ultra high pressure water technology, which avoids extreme confinement of the rooms. It is looking for a supplier of ultra high pressure water pumps or full units which would be able to produce, assemble and commercialize this device under licence and manufacturing agreements.

Creation Date	17 January 2017
Last Update	23 January 2017
Expiration Date	23 January 2018
Reference	TOFR20170117001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/792cbe24-3f8d-45ac-b58a-eb29e35e64e9

Details

Description

This French SME belongs to a small group which has a long experience in the field of asbestos removal. For their own purpose they have developed 3 years ago a specific system of asbestos removing using ultra high pressure (UHP) water which is fitted with a vacuum hose at the water nozzle and a filtering device thus allowing for a full removal of harmful particles and contaminated water.

The system is patented and is nowadays already produced, assembled and commercialized by a UHP industrial company under a non-exclusive licensing agreement.

The device has been recommended by the French National authorities dealing with health at work and working conditions as the preferable system for asbestos removal. These are however requesting that the technology should be licensed to more than one company as it is currently to ensure proper diffusion.

In order to boost up sales in other markets but also to fulfil the request of Work conditions / health at work authorities, the SME is looking for other suppliers able to produce the system under licence and manufacturing agreement.

The patented device consists in 5 sub-systems which the partner sought should be able to assemble

- A water ultra-high pressure unit (this is what the supplier know-how should be)
- A robotic stripping (removal) head (developed by the SME and produce under exclusive by another supplier which would provide it to the partner sought)
- A vacuum system
- A press equipment which will separate water and effluents (once again both designed by the

SME and exclusively provided by a third party to the partner sought)
- A filtering unit (to be provided by the partner)

The SME is thus looking for an industrial partner, ideally a producer of UHP pumps or full units able to produce, assemble the whole device and ideally commercialize it amongst its core products.

Payment to the SME will be done through royalties

Advantages and Innovations

The device allows to reduce by a factor of 10 to 100 the amount of emission of harmful particles in the asbestos removing work.

Thanks to the vacuum and filtering, there is no need for extreme confinement of the rooms and the asbestos removal processing is made much easier and faster as well as less dangerous for workers.

Besides the robotic head allows to simplify the working conditions as it is sliding along tubes which are easily fitted to the surfaces (bottom, side-walls, ceilings, in or outdoors) which have to be worked out.

Stage of Development

Already on the market

Comments Regarding Stage of Development

The device is already in the market using one manufacturer equipment. Regulatory bodies ask for other manufacturers to be involved with their own set of equipment.

IPR Status

Patents granted

Comment Regarding IPR status

International patent procedure (PCT)

Profile Origin

Private (in-house) research

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2014

Turnover

<1M

Already Engaged in Trans-National Cooperation

No.

Experience Comments

Engineering company specialized in decontamination systems through waterjet removal, vacuum elimination and filtration of dangerous effluents

Languages Spoken

English
French

Client Country

France

Partner Sought

Type and Role of Partner Sought

1) Industrial companies (preferably) : Manufacturer of UHP pumps or units

Role : to produce, assemble and commercialize the device under licence and manufacturing agreement

2) Industrial services : Distributors of large equipments for Construction Industry

Role : to identify in its own network subcontractors to produce and assemble the device and commercialize it in their own products range under licence agreement.

in both case, the partner sought should be able to supply a Ultra high pressure unit able to deliver 18 liter / min. of water at 3000 bars.

He should also be willing to accept a non exclusive licence and the use of exclusive suppliers for the production of the robotic stripping head and the vacuum device.

Type and Size of Partner Sought

>500 MNE, 251-500, SME 51-250

Type of Partnership Considered

License agreement

Manufacturing agreement

Technology Offer

Integrated software for water quality assessment

Summary

A research center of a Walloon University has developed a decision support model for quality management of the aquatic environment. Provided with Graphical User Interface, the model takes into account the anthropogenic loads and their impacts on the physicochemical quality of the modelled river system. The model is in use by water management stakeholders. The team is looking for academic, industrial or public partnerships for research, license or collaboration agreements in the field of water.

Creation Date	01 February 2017
Last Update	07 February 2017
Expiration Date	07 February 2018
Reference	TOBE20161221001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/cb842fc5-a71d-42a0-a465-d2ec7c57cac5

Details

Description

The numerical model, developed in Wallonia (Belgium), is a powerful tool for a holistic water management by assisting in the establishment of pressure / impact relationships. The model involves a wide range of features in its integrated software suite. It handles a wide variety of input data at the watershed scale up to the entire international hydrographic district. Natural system processes and anthropogenic impact pressures (urban, industrial, WWTP-WasteWater Treatment Plants-, livestock discharges, and processes, ...) are taken into account in order to assess physicochemical quality of the water bodies. That allows decision makers in the water sector to provide measures (management plan) for water quality enhancement (before their implementation). In that way, the model is dedicated to implement the WFD (Water Framework Directive 2000/60/CE).

The tool is made available to the market via license agreement. Types of partners sought are water management decision makers and environmental consciousness companies regarding their industrial discharges. Players involved in environmental scientific research are also sought by the development team, in order to establish research cooperation agreements related to water quality assessment.

Advantages and Innovations

The Belgian research team offers a deterministic and physically based modelling tool that provides a better understanding of the hydro system processes. The innovation is generated through an acknowledged experience (30 years) in the development of technologically advanced software suite helping in integrated water quality forecasting and management. It is a powerful deterministic and non-stationary quality processing engine taking into account various parameters as the anthropogenic impact, corbicula, segmentation and suspended matter, transport of micropollutants, ... The modelling processes that reckon physical, chemical and biological factors requires big amount of input data assimilated by dedicated sophisticated

numerical algorithms and tools. It also provides an overall water quality assessment in a single software suite. Through a better understanding of the described basin, it also allows to reinforce the monitoring Network as well as the waste water treatment strategies.

Stage of Development

Available for demonstration

IPR Status

Copyright

Profile Origin

National or Regional R&D programme

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Environment

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
French

Client Country

Belgium

Partner Sought

Type and Role of Partner Sought

- License agreement:

To implement the product into Public Administrations, Ministries, Agencies and Industries in order to provide the expertise and technical support as required by the European Commission (WFD) in the scope of water quality management

- Collaboration agreement:

Partnerships with Public Administrations, Agencies and Industries to set up actions in financed projects, in the field of water management (management plans, purification, good status management, environmental protection, sustainable development projects, ...)

- Research & Development (R&D) projects and scientific exchanges:

Academic institutions and research organizations partnerships providing whether bilateral scientific mobility (students, PhD students and professors), internships, PhD thesis supervision, or joint expertise in R&D projects

Type of Partnership Considered

License agreement
Technical cooperation agreement
Research cooperation agreement

Technology Offer

Cogeneration from biomass gasification: a fully integrated, automated and containerised plug-and-play solution for Combined Heat and Power production from natural renewable sources.

Summary

An Italian SME has patented a groundbreaking Plug&Play system for cogeneration (electricity and heat) from renewable sources. The system, using a gasification technology, produces tar-free syngas (synthesis gas) for internal combustion engines, coupled with power generators and heat recovery systems, starting from biomass. The system generates power, off grid or grid-tie parallel mode. The company looks for licence, research, financing or commercial agreements supported by technical assistance.

Creation Date	27 January 2017
Last Update	07 February 2017
Expiration Date	07 February 2018
Reference	TOIT20170119001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/c1f6a6e1-7b11-425f-832b-ad04d1e08045

Details

Description

The Italian company is a start-up that officially started its activity in June 2015, after 3 years of R&D and prototyping.

Over the last 8 years, the working team gained experience in other companies on PhotoVoltaics and bioliquid cogeneration, with 5 vegetable oil Combined heat and power (CHP) running. The company is actually focused on biomass gasification, and has concentrated its efforts in the design and the development of a small sized reactor for low tar syngas production and a double-stage syngas cleaning system.

This system, based on gasification technology, allows to use woodchips and other briquetted biomasses to generate almost tar-free syngas for internal combustion engines, coupled with power generators and heat recovery systems.

The Combined heat and power (CHP) units range from 50 kWe to 100 kWe. The system allows to use locally available biomass to generate power, either off grid (stand alone / self consumption) and grid-tie parallel mode (feed-in tariff for energy production from renewable energy sources).

In the last development stage, an automated control process was implemented to control all operational phases, from biomass pre-treatment to power production – grid tie parallel.

The company is currently working on the updated version of the system, extending the range of suitable biomasses and its treatment system for proper gasification, and power generation

optimization through testing advanced technologies.

The applications fields of the CHPs range from agriculture farms to sports and leisure centres, from greenhouses to energivorous industrial activities (e.g. laundry services), in particular those activities that require a considerable amount of thermal energy.

Indeed, the technology permits huge saving on energy bill even with a CHP unit, thanks to the higher efficiency of combined production of electricity and heat compared to separate, fossil fuel based, production.

The desired cooperations are with all the Renewable Energy Sources players and stakeholders, ranging from ESCo to companies willing to adopt the technology through commercial agreements with technical assistance or licence agreements.

Professionals or R&D players (Research Institutes and Universities) are expected to further develop the technology, to explore new other biomasses to be used and a possible upgrade of the system.

Financial sources are sought too.

Advantages and Innovations

- Fully integrated process: from biomass moisture content adjustment, to power production, to ash removal.
- Low visual impact / compact units: the system is enclosed and developed in 1 or 2 standard 20 ft freight containers, depending on power size. The container is not the envelope of the system, rather is the framework of the system itself; aesthetics is customizable, depending on customer requirements; no site building requirement (indoor / outdoor application) and short authorization paperwork; the plant can be moved by truck wherever power is needed.
- Continuous running: the system is engineered to operate 24h through 2 independent production lines (gensets), in order to keep running even when one line is under Operations and Maintenance activity.
- No combustion pollution byproducts: the system does not burn biomass, but transforms it into a syngas plus biochar. The former is piped off to run the engines, the latter is a pure biologic char that can be sold and used as soil amendment for sustainable agriculture.
- Carbon sequestration: the operating cycle is carbon dioxide (CO₂) negative, as part of the CO₂ absorbed by the biomass during its lifecycle is stored in the biochar.
- No waste production: the system only produce electricity, heat and biochar. No water or other chemicals are required for gas cleaning.
- No greenhouse gases (GHG) emissions.

Stage of Development

Already on the market

Comments Regarding Stage of Development

The product is market-ready.

IPR Status

Patent(s) applied for but not yet granted

Comment Regarding IPR status

The acquired overall know-how has been certified and is currently patent-pending.

Profile Origin

Private (in-house) research

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Intelligent Energy

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2015

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Spanish
Italian

Client Country

Italy

Partner Sought

Type and Role of Partner Sought

Commercial agreement with technical assistance

The company is interested in developing forms of market penetration on international markets. Particularly, they are looking for partnerships with companies, dealers, general contractors, EScO or energy consultants and managers, willing to introduce the CHP units into local markets, upon market analysis and project definition. Candidates can be from any sector requiring a considerable amount of thermal energy (energivorous activities as for instance manufacturing plants). The company offers assistance on all the technical aspects.

Licence Agreements: licensed production and sales

Companies interested in building the CHPs under license agreements and proper tutoring, wherever its more profitable local production and sale compared to export.

Research cooperation agreements

The company is interested in R&D collaborations and partnerships with companies in the field of RES energy technologies and biomass research. They are also open to skilled and strongly motivated professionals (engineers, chemists...) willing to collaborate on R&D projects and systems development.

Financial agreement

The company offers attractive financial opportunities to Venture Capitals, Investment Funds and similar, on Energy Performance Contracts for RES production networks that benefit from state guaranteed long term feed-in tariffs.

Type and Size of Partner Sought

SME 11-50, University, Inventor, R&D Institution, SME <10

Type of Partnership Considered

License agreement

Financial agreement

Commercial agreement with technical assistance

Research cooperation agreement

Attachments

Immagine.jpg



Technology Request

Improving energy efficiency for campuses

Summary

A Technical University from Romania is looking for research partners in the field of Intelligent Energy. The project will analyze and develop different energy efficiencies scenarios with regard to research and analysis to identify opportunities to reduce energy consumption in a university campus. The partners sought are innovative SMEs and R&D performers in the field of Intelligent Energy for technical cooperation under EU/International R&D Programmes.

Creation Date	31 January 2017
Last Update	06 February 2017
Expiration Date	06 February 2018
Reference	TRRO20170131006
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/e5b03457-a0d5-416f-b2d1-55b0b437eda7

Details

Description

Universitary campuses built in the second half of the twentieth century, in terms of energy efficiency, can substantially improve their performance by using modern technologies and equipment as well as renewable energy sources, integrated in intelligent systems including smart metering. They speak here about electricity consumption for lighting and air conditioning, and heat consumption for heating. The project will analyze and develop different energy efficiencies scenarios with regard to research and analysis to identify opportunities to reduce energy consumption in a university campus. Besides the scientific researches, the project can also address the transfer of best available technologies, as well as building a pilot demonstration site at our university. There will be analyzed both implementing energy efficiency measures, as well as the use of green energies in intelligent systems. There should be mentioned that some initial steps towards improving energy efficiency have already been taken. The partners sought are innovative SMEs and R&D performers in the field of Intelligent Energy in EU/International R&D Programs.

Technical Specifications / Specific technical requirements:

The results of the project can be replicated at other campuses with comparable situations. Also, in terms of academic interests, the project attempts to present these results in specialized university courses, so students can become familiar with modern technology and equipment used for efficient energy consumption

Current and Potential Domain of Application: The applications will cover the thematic areas of Education and Engineering industries.

Technical Specification or Expertise Sought

The project will analyze and develop different energy efficiencies scenarios with regard to research and analysis to identify opportunities to reduce energy consumption in a university campus. Besides the scientific researches, the project can also address the transfer of best

available technologies, as well as building a pilot demonstration site at our university. There will be analyzed both implementing energy efficiency measures, as well as the use of green energies in intelligent systems.

Stage of Development

Proposal under development

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

University

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

Client Country

Romania

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: Research entity
- Specific area of activity of the partner: Education, Engineering industries
- Task to be performed by the partner sought: Joint research and technical cooperation for analyze and develop different energy efficiencies scenarios with regard to research and analysis to identify opportunities to reduce energy consumption in a university campus.

Type and Size of Partner Sought

R&D Institution, SME <10

Type of Partnership Considered

Technical cooperation agreement

Technology Request

Sensors for Air Quality Monitoring and Air Quality Solutions

Summary

A Belgian multinational active in consumer goods is looking for sensors to accurately monitor home or office air quality across a range of pollutants, preferably in combination with machine learning algorithms to make meaningful recommendations on corrective actions to optimize air quality. Further, the company is looking for new product solutions for air quality management. Licence or technical cooperation agreements are sought with industrial partners.

Creation Date	20 January 2017
Last Update	20 January 2017
Expiration Date	20 January 2018
Reference	TRBE20170120001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/fbbc1c80-bb4f-4659-ae97-c10b1e0d8ac9

Details

Description

Rapid urbanization, increases in automobile ownership, increased energy generation and other factors are all resulting in increasingly poor outside air quality for a growing fraction of the world's population. As homes and offices get tighter and utilize fewer air exchanges to save energy, internal air quality is also negatively impacted. Many countries are experiencing significant increases in the percentage of population experiencing severe allergies or asthma that are aggravated by poor air quality. Likewise, as populations age, an increasing number of elderly suffer from various respiratory illnesses that are also aggravated by poor air quality.

A growing number of companies are launching air quality monitoring devices aimed to the home consumer, with the stated intent of helping them manage their air quality. Many of these home sensors suffer from poor accuracy, inability to distinguish between particle types (e.g., dust, pollen, pet dander, etc.), and the lack of a mechanism to take corrective action. Typical "air care" products available for corrective action focus on bulk removal particles via HEPA (high-efficiency particulate arresting) or other filters, as well as the removal and/or cover up of malodors. Solutions are inefficient and sometimes ineffective.

With the aim to overcome these disadvantages, this Belgian multinational active in consumer goods is looking for a combined set of solutions:

- Consumer focused sensors for accurate monitoring of home or office air quality across a range of pollutants of interest, in combination with machine learning algorithms to make meaningful recommendations on corrective action to optimize air quality.
- New product solutions for air quality management.

The company is looking for collaboration with industrial partners able to provide the above-mentioned solutions enabling an effective air quality monitoring and measurement, coupled to learning algorithms for processing data from sensors.

The purpose would be setting up a long lasting cooperation via technical collaboration or licence agreement, allowing the large account to comply with its internal strategy and for the potential partner to interact in a systematic way with the large account so as to have immediate access to forthcoming similar requests

Technical Specification or Expertise Sought

The company is looking for:

- Partners with new sensors or sensor packages for broad and meaningful air quality measurement (e.g., formaldehyde and other specific volatile organic compounds (VOCs), odors, allergens, biologicals, Particulate Matter 2.5 micrometers or less (PM2.5) in private residences, group living homes, office buildings, and other public gathering spaces.
- Sensors that can accurately monitor key components of indoor air per World Health Organization guidelines at relevant levels in real time.
- Machine learning algorithms for processing data from sensors to provide meaningful information and recommendations to non-expert end-users on how to optimize air quality in real time.
- Product solutions for optimizing air quality, including removal of unwanted materials from air and introduction of beneficial agents to air, in real time. These solutions will ideally contain at least one consumable component.

The company NOT interested in:

- directly making and selling sensors.
- Air quality solutions that are applicable exclusively in Rx (reception) and heavily regulated fields.

Please note that only non-confidential information describing the method, current use and IP can be accepted for review.

Stage of Development

Already on the market

Comment Regarding IPR status

Please note that only non-confidential information describing the method, current use and IP can be accepted for review.

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Send to Sector Group

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry >500 MNE

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

Belgium

Partner Sought

Type and Role of Partner Sought

Type of Partner sought: SMEs or industry

Area of expertise : Sensors coupled with machine learning algorithms

Role of Partner Sought: collaborate with the large account for technical collaboration or provide the technical solution sought under licence agreement

Type and Size of Partner Sought

SME 11-50,SME <10,251-500,SME 51-250

Type of Partnership Considered

License agreement

Technical cooperation agreement

Technology Request

Ground inspecting technology sought

Summary

A Korean SME, an equipment managing company is looking for partners with expertise in ground safety inspection. The company seeks partners capable of providing the technology at this scale on an economic basis for design, installation and demonstration. License and/ or manufacture agreement is sought. The company is also open to technical and research cooperation.

Creation Date	29 November 2016
Last Update	06 February 2017
Expiration Date	06 February 2018
Reference	TRKR20161129007
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/85d5d64d-1ab4-4912-9fd0-0f08957c574b

Details

Description

A Korean company has been researching and developing ground strengthening and structure recovery. They seek a technology that can inspect the ground after the ground strengthening process. This technology is needed to measure and analyse its results.

The SME is looking for technology which is:

- Able to enhance current ground strengthening process
- Ready within a year
- To be applied to the new related product.

The company is interested in licensing agreement, manufacturing agreement and research cooperation agreement. The South Korean SME is open for any type of organisations including industry, university, and research organisation. However, it is necessary to have thorough know-how on how to implement the technology into the real sites.

Technical Specification or Expertise Sought

The company wants to acquire technology which can inspect the ground after the ground strengthening process.

Different methods of ground safety inspection such as the hammering test or the ultrasonic wave test are expected.

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

Client Country

South Korea

Partner Sought

Type and Role of Partner Sought

Type of partner sought

- SME, Universities, Research institution, and larger company

Specific area of activity of partner

- in ground safety inspection

Tasks to be performed by the partner sought

- Help on developing and manufacturing new products

- License agreement partner, can commercializing the product and hold right to distribute

- Research cooperation agreement (various designs for compact devices that can measure ground strength, further development of the technology)

Type of Partnership Considered

License agreement

Manufacturing agreement

Research cooperation agreement

Medio Ambiente:

Residuos

Research & Development Request

H2020: seeking SMEs with innovative water technologies

Summary

A Spanish R&D institute is preparing a H2020CIRC-2(b)-2016-2017 proposal that aims to implement innovative treatment technologies for small-medium-scale industrial wastewater streams, closing the water cycle by increasing the efficiency of desalination and wastewater treatment plants, including recovery of energy and re-use of chemicals and nutrients. The institute seeks industrial SMEs (preferably not Spanish) with innovative technology demos for water management under the circular economy.

Creation Date	16 January 2017
Last Update	25 January 2017
Expiration Date	25 January 2018
Reference	RDES20170113001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/0380f821-94df-4dca-8350-5f5525247b5a

Details

Description

The R&D Institute is a public company that supports the Canary Islands' R&D development with experience in developing and managing R&D&I projects with national and European funds. The Water Department of the Institute is preparing a H2020 project; subcall CIRC-2-2016-2017 Project (Water in the context of the circular economy. (b) Towards the next generation of water systems and services; large scale demonstration projects (IA)).

The project is aimed at developing a demonstration and evaluation of innovative water management options on the Southeast County of Gran Canaria Island, one of the most innovative areas in terms of sustainability and technology in the Canary Islands. The project will expand the re-use of treated waste water, through the integration of eco-efficient water management in industrial processes, ensuring carbon neutral water services, and closing the water cycle by increasing the efficiency of desalination and WWT (wastewater treatment plants), including the recovery of energy and the re-use of chemicals and nutrients.

The small-medium scale industrial estate established in this County (food and drink industry, metalwork, laundries, stone-cutting, graphic art and printing industry, etc.) is a significant water user and a direct beneficiary of solution and innovative technologies and services that enable more sustainable water management (reduction of the current water consumption and reuse).

The Institute seeks industrial SMEs, preferably no Spanish, with demos of innovative methods and technologies, with Technology Readiness Level - TRL, from TRL5 (Component and/or breadboard validation in relevant environment) to TRL9 (Actual system proven through successful mission operations) to address the following broad lines of action:

- Brine from the desalination plant (supplying 33,000 m³/day with 68% recovery rate): energy

issues and recovery as a by-product.

- By-products from sewage sludge (i.e. phosphorus): efficient ways to extract these, turning waste into a valuable and renewable resource, creating new opportunities for companies and reducing its impact on the environment. (WWTP wastewater treatment plant 18,000 m³/day).
- Innovative treatment technologies for fish-products small-industry wastewater stream (high salt content, high organic matter, oil and grease, ammonia in their wastewater).
- Innovative treatment technologies demos for small-scale industrial wastewater streams, unlocking barriers for their recycling and reuse. The goal is to demonstrate on an small industrial scale how process-water can be reused selecting the right water treatment and management processes and systems
- Water management ICT tools following circular economy purposes and new generation of water systems and services.
- Innovative treatment technologies demos for citizens direct application.

These innovative solutions should be in line with the objectives of the circular economy, contributing to the challenges of a depletion of raw materials (e.g. through the recovery of resources from waste water) and climate change (reducing energy needs or producing energy).

Stage of Development: Proposal under development.

The Institute is negotiating for partnership with institutions from EU countries that are specialized for research projects in water sector.

Timeline:

Deadline for first stage applications: 07 March 2017

Deadline for expressions of interest: 10 February 2017

The project is planned to be realized within 3-4 years

Stage of Development

Proposal under development

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Phone Number

0034955058103

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Send to Sector Group
Environment

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

1992

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

The R&D Institute is looking for SMEs (preferably no Spanish), with TRL5- TRL9 and small-medium-scale innovative solutions in line with the objectives of the circular economy to address the lines of action: Water management ICT tools, Water re-use demonstration, etc.

Type and Size of Partner Sought

SME 11-50,SME <10,SME 51-250

Type of Partnership Considered

Research cooperation agreement

Technology Offer

Technology for integrated plastics/rubber recycling into useful products

Summary

A Ukrainian university developed an environmentally friendly technology for integrated plastics/rubber recycling into useful products (soles, accessories etc) using a set of equipment for grinding, moulding and mechanical polishing. It can be used in plastics recycling plants or in other manufacturing companies that need to recycle used plastics. The university is looking for partners (University, industry, R&D institution) interested in technical/research cooperation or licensing of know-how.

Creation Date	18 January 2017
Last Update	24 January 2017
Expiration Date	24 January 2018
Reference	TOUA20161226001
Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/ac39c733-fbb1-4667-abe9-4921f5f57028

Details

Description

There are two acute problems for the SMEs specialising in the production of polymer/plastics goods:

- how to find qualitative and cheap raw materials,
 - how to develop the different approaches to rational reuse/processing of industrial wastes
- Therefore, the development of new technologies/multifunctional equipment for plastic waste recycling is the necessary condition for further expansion of SMEs. Current methods of materials processing are often ineffective because they require high energy inputs as well as result in accumulation of wastes needed to be recycled/utilized.

A Ukrainian University developed a technology which provides an efficient solution to today's global challenges as following:

- complete recycling of raw polymer compositions into useful products,
- industrial wastes post-recycling.

The technological process consists of 3 stages:

- wastes grinding,
- preparation of feedstock for the recycling into products,
- manufacture of products by pressure die casting with further treatment.

The technology allows to reduce energy consumption as well as adverse environmental impact.

Current and potential fields of application:

- light industry,
- chemical industry,
- mechanical engineering,
- building.

The university is looking for partners (University, industry, R&D institution) interested in technical/research cooperation and joint implementation or licensing know-how

Advantages and Innovations

The complex approach to recycling allows to:

- reduce the whole cycle time of polymeric goods manufacturing,
- improve the product quality and design,
- reduce power consumption and environment pollution,
- reduce the need for human labour at different stages (preparation and final processing) of production,
- reduce the production costs due to the reduction of manufacturing cycle and recycling/reuse of materials,
- produce a set of polymer and mechanical rubber goods (soles, heels, tips, buttons etc).

Stage of Development

Prototype available for demonstration

Comments Regarding Stage of Development

The separate elements of complex equipment were created.
Waste recycling process was developed

IPR Status

Secret Know-how, Patents granted

Comment Regarding IPR status

3 patents of Ukraine

Profile Origin

National or Regional R&D programme

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Phone Number

0034955058103

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Sustainable Construction

Client

Type and Size of Organisation Behind the Profile

University

Year Established

1930

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

Russian

Client Country

Ukraine

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: Industry, University, R&D institution
- Specific area of activity of the partner: development of plastic recycling machinery/equipment,
- Task to be performed by the partner sought: to conduct a joint test/trials under a technical/research cooperation agreement, technology licensing and adoption

Type and Size of Partner Sought

SME 11-50, University, R&D Institution, SME 51-250

Type of Partnership Considered

License agreement

Technical cooperation agreement

Research cooperation agreement

Technology Request

Printed electronics on plastic packaging: industrial printing machinery prototyping expertise requested

Summary

An Italian SME is looking for a partner with expertise in electro-mechanical engineering and industrial machinery prototyping. The company is currently developing an innovative printing technology for plastic film packaging to be integrated in the industrial film production plants. Technical cooperation or manufacturing agreement as well as joint venture agreement offered. Partners' previous experience with plastic film production plants would be beneficial.

Creation Date	02 February 2017
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Profile link	http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/20a165b1-0708-4483-a08e-b8d15d9f78e2

Details

Description

An Italian SME has developed a new technology for printing a rewritable electronic element on plastic film for smart packaging purposes. The new solution could replace existing solutions based on bar codes, QR codes etc. and permits seamless integration with the film production process.

The technology is patented and tested on laboratory level, the company is currently looking for partners for engineering and testing an industrial-scale prototype. The prototype needs to be able of being integrated on existing roll-to-roll plastic film production plants, so specific electromechanical and machinery engineering expertise is required. Know-how and experience on plastic film production machinery and printing technologies for plastic substrate would be highly beneficial.

Technical cooperation as well as industrial agreements for the prototyping and further development of the new technology are sought, based on size and market interest of the potential partners.

The development project of the new technology has been awarded the Seal of Excellence during the H2020 SME Instrument phase 1 proposal evaluation.

Technical Specification or Expertise Sought

The requested technological expertise includes electromechanical and industrial automation, microelectronics design, mechanical and electrical/electronic design; previous experience with plastic film production plants and printed electronics would be beneficial.

Stage of Development

Project already started

IPR Status

Patents granted

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Rocio Muñoz Maestre

Phone Number

0034955058103

Email

rocio.munoz.maestre@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Materials

Restrict Dissemination to Specific Countries

Austria, France, Germany, Italy, Slovenia, Spain,

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
Italian

Client Country

Italy

Partner Sought

Type and Role of Partner Sought

The partners sought may be mechanical and electrical/electronic manufacturers, technical design and engineering companies as well as industrial automation and special plant development companies. Previous expertise in the field of film plastic production plants or industrial printed electronics is welcome.

Type and Size of Partner Sought

>500 MNE, 251-500, SME 51-250

Type of Partnership Considered

Manufacturing agreement
Commercial agreement with technical assistance
Technical cooperation agreement
Joint venture agreement