Profile Status: Published

Research & Development Request

H2020 LC-GV-03-2019 Public or private entity sought for developing an urban lab to test and deploy Electric Vehicles

Summary

A Spanish company is seeking a public or private entity responsible for developing and implementing policies to support the accelerated deployment of recharging infrastructure for Electric Vehicles (EV) for the H2020 call LC-GV-03-2019. The project aims at removing barriers to large-scale uptake of e-mobility and set up the right conditions for a wide availability of charging points and for improving the conditions for a broad market acceptance in the electrification of transport.

Creation Date	29 November 2018
Last Update	07 January 2019
Expiration Date	28 February 2019
Reference	RDES20181128001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/8af71241-f7b6-416b-912c-5da453e44688

Details

Description

A Spanish company is looking for public or private entities in charge of the implementation of policies in urban and peri-urban areas to accelerate the deployment of recharging infrastructure for Electric Vehicles (EV). This partner will join a consortium that is preparing a proposal for the H2020 topic LC-GV-03-2019.

The project aims at removing the barriers for large-scale uptake of e-mobility by means of providing new user-friendly charging solutions adaptable to the needs of different e-mobility users. This includes low power cheap charging for overnight parking and light Electric Vehicles, superfast charging supporting long-range travels, and automated charging solutions for increased convenience and user-friendliness.

The developed solutions will be scalable towards electric road systems and usable for automated vehicles. A planning tool will be developed to guide the optimal deployment of a charging infrastructure that is adapted to the needs of the users and the society as a whole, considering both power grid limitations, availability of renewable energy sources and local energy storage.

Guidelines will be provided for large-scale deployment of charging infrastructure, including viable business models and recommendations for ensuring public acceptance of e-mobility and

its associated infrastructure.

Identified user groups will play a key role in taking their concerns into account and test and demonstrate viable solutions. In addition, it will improve the user experience and thereby an accelerated uptake of e-mobility. Urban and long-range travels will be considered.

The demonstrated solutions will be evaluated in terms of user perception and possibly changes in mobility patterns.

The outcome of the demonstrators will validate business and revenue models, including technical solutions for seamless payment.

EOI Deadline 31st December 2018
Call Deadline 25th April 2019

Advantages and Innovations

This project will demonstrate attractive and convenient charging infrastructure taking into account needs and expectations for different user groups, including private Electric Vehicles users from across Europe, taxi drivers or equivalent transportation services (Uber, Cabify, Lift), new shared economy mobility solutions (eCooltra, Autolib), and commercial (firms such as SEAT or Pascual having their own e-fleets for their staff) and public service providers (eBUS fleets). Demonstrate further improvements in the e-mobility experience by providing a plethora of charging opportunities including cheap low power Direct Current, DC-charging, new superfast charging and automated charging solutions (including conductive and wireless technologies).

- Facilitate user-friendly and automated payment of charging, working seamlessly across different charging operators and technologies, providing unified payment of charging, including legacy plug-in stationary charging, automated charging and the use of electric roads.

- Lowering the risk of investment in user-friendly charging infrastructure by providing planning support for optimal charging strategies and charging locations, taking into account mobility demands, needs of different social groups, city development plans, power grid capacity and energy sources (Renewable Energy Source included). Demonstrate and assess different business models for viable establishment and operation of charging infrastructure.

- Lowering the burden on the power grid when deploying charging infrastructure (including fast chargers and electric roads) through smart charging solutions balancing the power demand with locally produced Renewable Energy Source, local energy storage and vehicle-to-grid, and business models encouraging such solutions.

Technical Specification or Expertise Sought

Partner: Leading and follower cities, based in the EU or H2020 associated country with the capacity to develop and implement the regional transport policy related to the deployment of Electric Vehicle.

Role: Create an urban lab to test new solutions and business models
- Raising awareness /dissemination of EV uptake benefits;
- Provide the public sector perspective to the project and make sure the solutions tested in the project can be applied in their respective cities.
- Ability to involve another key stakeholder in the city /TEN-T surrounding areas.
- Commitment to learn from leading cities, study the Living Labs and its findings in the later and explore possible replicability of solutions;

Stage of Development

Proposal under development

IPR Status

Granted patent or patent application essential

Keywords

Technology

02008005	Road Transport
02008006	Traffic Engineering / Control Systems
02010001	Planning and security
02010003	System and transportation

Market

03002	Batteries
03003	Power Supplies
03004003	Other electronics related equipment

NACE

H.49.1.0	Passenger rail transport, interurban
H.49.3.1	Urban and suburban passenger land transport
M.70.2.2	Business and other management consultancy activities

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

Pawel Zebrowski

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Automotive, Transport and Logistics

Restrict Dissemination to Specific Countries

Belgium, France, Germany, Netherlands,

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2011

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

Partner 1: Leading city based in the EU or H2020 associated country with the capacity to develop and implement the regional transport policy related to the deployment of Electric Vehicle.

Role:
- Create an urban lab to test new solutions and business models,
- Raising awareness /dissemination of Electric Vehicle uptake benefits,
- Provide the public sector perspective to the project and make sure the solutions tested in the project can be applied in their respective cities,
- Ability to involve another key stakeholder in the city /Trans-European Transport Network (TEN-T) surrounding areas.

Partner 2: Follower city based in the EU or H2020 associated country with the capacity to

develop and implement the regional transport policy related to the deployment of Electric Vehicle.

Role:
- Create an urban lab to test new solutions and business models,
- Raising awareness /dissemination of Electric Vehicle uptake benefits,
- Provide the public sector perspective to the project and make sure the solutions tested in the project can be applied in their respective cities,
- Ability to involve another key stakeholder in the city /TEN-T (Trans-European Transport Network) surrounding areas

- Commitment to learn from leading cities, study the Living Labs and its findings in the later and explore possible replicability of solutions;

Type and Size of Partner Sought

>500

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Smart, green and integrated transport

Call title and identifier

Work Program: "Smart, Green and Integrated Transport"
Call: Building a low-carbon, climate resilient future
Topic: LC-GV-03-2019 User-centric charging infrastructure (Innovative Action 70%)

Submission and evaluation scheme

Single-stage

Anticipated Project Budget

8 - 15 million €

Coordinator Required

No

Deadline for EOI

28 Feb 2019

Deadline of the Call

22 Oct 2019

Project Duration

22 week(s)

Weblink to the Call

https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/lc-gv-03-2019.html

develop and implement the regional transport policy related to the deployment of Electric Vehicle.

Role:
- Create an urban lab to test new solutions and business models,
- Raising awareness /dissemination of Electric Vehicle uptake benefits,
- Provide the public sector perspective to the project and make sure the solutions tested in the project can be applied in their respective cities,
- Ability to involve another key stakeholder in the city /TEN-T (Trans-European Transport Network) surrounding areas

- Commitment to learn from leading cities, study the Living Labs and its findings in the later and explore possible replicability of solutions;

Type and Size of Partner Sought

>500

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Smart, green and integrated transport

Call title and identifier

Work Program: "Smart, Green and Integrated Transport"
Call: Building a low-carbon, climate resilient future
Topic: LC-GV-03-2019 User-centric charging infrastructure (Innovative Action 70%)

Submission and evaluation scheme

Single-stage

Anticipated Project Budget

8 - 15 million €

Coordinator Required

No

Deadline for EOI

28 Feb 2019

Deadline of the Call

22 Oct 2019

Project Duration

22 week(s)

Weblink to the Call

https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/lc-gv-03-2019.html

Profile Status: Published

Research & Development Request

H2020 DT-NMBP-19-2019 - Consultancy company sought with proven experience in regulation, certification and standardisation of nanomaterials

Summary

A Spanish research centre is seeking a consultancy company with proven experience in regulation, certification and standardisation of nanomaterials for the H2020 topic DT-NMBP-19-2019. Knowledge of additive manufacturing, nanomaterials and energy will be appreciated. The main goal of the project is to optimize the 3D printing process of multi-ceramic nanomaterials for fabricating high-performing functional devices with the required level of customization.

Creation Date	29 November 2018
Last Update	07 January 2019
Expiration Date	31 March 2019
Reference	RDES20181129001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/8b274902-caf0-4c01-98eb-9a2161cc00af

Details

Description

A Spanish research centre is seeking an entity to complement a nine-member consortium which is preparing a proposal for the Horizon 2020 topic DT-NMBP-19-2019.

The additive manufacturing (AM) is being applied in the processing of most industrial metals, ceramics, polymers and composites and nowadays there is challenge consisting on developing equipment for manufacturing multi-materials items and multi-functional materials for different sectors such as energy, transport and others.

The future of additive manufacturingwill depend on the capacity of using nanotechnologies to aggregate multiple materials within a single process while improving their performance.

The objective of this project will be to optimize the 3D printing process of multi-ceramic nanomaterials for fabricating high-performing functional devices with the required level of customization.

The innovative manufacturing technology proposed in the project represents a breakthrough against traditional ceramics processing due to a significant reduction of the time-to-market, waste material and manufacturing steps (shaping and thermal treatments), i.e. cost and environmental impact.

The consortium is almost closed with 9 members covering a wide range of tasks, but a consultancy company specializing in regulation, certification and standardisation of nanomaterials is required. It will be desirable that the new partner has knowledge of additive manufacturing, nanomaterials and energy. Their tasks will be defining the standards and regulation applicable to the developed nanomaterials and the process for qualification. This partner should be based in Southern and Eastern European countries.

EOI Deadline: 31st December 2018
Call Deadline: 1st stage: 22nd January 2018; 2nd stage: 3rd September 2018.

Stage of Development

Proposal under development

IPR Status

Other

Keywords

Technology

02001001	3D printing
02007024	Nanomaterials

Market

06003001	Solar/thermal energy
06003003	Wind energy
06003006	Combined heat and power (co-generation)
08003005	Other industrial machinery for textile, paper & other industries
08003007	Other industrial equipment and machinery

NACE

M.70.1.0	Activities of head offices
M.71.2.0	Technical testing and analysis
M.72.1.9	Other research and experimental development on natural sciences and engineering
M.74.9.0	Other professional, scientific and technical activities n.e.c.

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Materials

Restrict Dissemination to Specific Countries

Bulgaria, Croatia, Cyprus, Czechia, Estonia, Greece, Hungary, Italy, Latvia, Lithuania, Malta, Poland, Portugal, Romania, Slovakia, Slovenia,

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

2008

Already Engaged in Trans-National Cooperation

Yes

Experience Comments

Field of expertise: Sustainable energy focused on efficient energy and advanced materials for energy.

Languages Spoken

English
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

Type of partner sought:

An entity (consultancy company is possible) with proven experience in regulation, certification and standardisation of nanomaterials, and knowledge of additive manufacturing, nanomaterials and energy.

Role:
They will define the standards and regulation applicable to the developed nanomaterials and the process for qualification.

Type and Size of Partner Sought

SME 11-50,>500 MNE,SME 51-250

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

Call: Digitising and transforming European industry and services (DT)
Topic: DT-NMBP-19-2019 - Advanced materials for additive manufacturing (IA)

Submission and evaluation scheme

Two-stage:
First stage deadline: 22 January 2019
Second stage deadline: 3 September 2019

Anticipated Project Budget

8 million €

Coordinator Required

No

Deadline for EOI

31 Mar 2019

Deadline of the Call

21 Jul 2019

Project Duration

176 week(s)

Weblink to the Call

https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-nmbp-19-2019;freeTextSearchKeyword=DT-NMBP-19-2019;typeCodes=0,1;statusCodes=31094501,31094502;programCode=null;programDivisionCode=null;focusAreaCode=null

Profile Status: Published

Research & Development Request

H2020-SC1-DTH-01-2019 - Catalan non-profit organization is looking for partners with expertise in software development and data analysis in the health sector, national and regional health services institutions and oncological hospitals

Summary

A Catalan non-profit association is writing a project proposal for the call SC1-DTH-01-2019 which aims to provide a system for managing the evolution of risks, as a continuous evolution tool for the actions oriented to improve the quality of life of the cancer post therapy, giving a risk prediction for undesired evolutions. They are looking for companies with expertise in software development and data analysis, national/regional health services institutions and oncological hospitals.

Creation Date	11 January 2019
Last Update	18 January 2019
Expiration Date	08 February 2019
Reference	RDES20190111001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/7078a9b3-7fdb-4605-9046-b2129020b8af

Details

Description

Cancer is one of the most prevalent and serious complex of diseases, affecting nearly one in three individuals at some point in their life. In the last years, cancer survival has augmented and still increases steadily by ~3% each year, which in turn increases long-term chronic health problems and comorbidity. Understanding, predicting and avoiding cancer-related worsening of life quality and appearance of comorbidity is thus one of the key challenges of cancer management in the upcoming years.

The SITRAQ project (SImulator of TRAjectories of Quality of Life) faces this need by aiming at these objectives:
- Exploiting the available clinical data to understand the life quality and comorbidity trajectory of patients diagnosed and treated with cancer.
- Prospectively classifying cancer patients according to their life quality and comorbidity trajectory through a machine learning-based classification algorithm.
- Determining intervention points to avoid life quality worsening and appearance of expected

comorbidities according to patient profile
- Through a piloting phase in major hospitals, estimating the improvement of patient satisfaction and health systems savings derived from the application of the classification algorithm + intervention points.

To achieve these objectives, the consortium wants to provide a system for managing the evolution of risks, as a continuous evolution tool for the actions oriented to improve the quality of life of the cancer post therapy, giving a risk prediction for the undesired evolutions.

It will be radically different from existing technologies that have been tested for a while and have been demonstrated as difficult to apply to real world problems: using genomics to personalize, or using wearables and apps to monitor, implies generating low quality data and a small day to day impact in the quality perceived by the patients.

For this reason, they will focus on assigning each patient in a cluster for which the evolution of the disease is known. The clustering is built from data from diverse and complex sources: tumour registry, medical prescriptions, basic history from all the healthcare levels (primary aid, emergency departments, hospital, mental health) and data from ad-hoc polls on the perceived quality of life.

The temporal evolution of these complex patterns provide them state trajectories that patients tend to follow. These allow to modulate the monitoring and prevention actions to avoid an undesired evolution due to complications. The set of forthcoming likely statuses for a patient who is in a given state today is the key knowledge for choosing action. This evolution is analysed by a state model simulation that also allows to compare variability among regions, as well as factor in the influence the of clinical, social, and therapeutical variables.

Predict to prevent is the reason of the project. It pursues constructing evolution models adapted to each territory and able to place the patients in a state of the frequent trajectories to adequate the treatment in function of their risks.

To complete the consortium, they are now looking for companies with expertise in software development and data analysis in the health sector, national and regional health services institutions and oncological hospitals. They are also looking for an institution with expertise in the management of H2020 European projects as a coordinator of the proposal.

Call: H2020- SC1-DTH-01-2019 - Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment.
Call deadline: 24 April 2019
Deadline for EOIS: 8 February 2019

Stage of Development

Proposal under development

Keywords

Technology

06001003	Cytology, Cancerology, Oncology
06005003	Health information management

Market

02007012	Medical/health software

05007007 Other medical/health related (not elsewhere classified)

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Healthcare
ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Other

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Experience Comments

Type: Non-profit association Number of partners: 50+, including - 10 universities - 10 health research institutes - 11 research centres of excellence - 16 companies (from agrifood & biotech to big pharma) - 3 singular scientific and technological infrastructures - patient associations

Fields of expertise: Algorithmics, Artificial intelligence, Big data, Bioinformatics of disease and treatment, Biomedical informatics, Computational genomics, High performance computing, Integrative Bioinformatics, Systems & Networks Biology and Text mining

Languages Spoken

English
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

The entity is looking for:

- National / regional health services: Role and tasks to be performed: Demographic analysis providing the minimum basic data set (MBDS) 2014-2017, codified in ICD.

- Expert institutions (e.g. Oncological associations): Role and tasks to be performed: Clinical documentation, Evaluation support, Dissemination plan.

- Non-Spanish Software SME: Role and tasks to be performed: Web development: user interface for MD's access to analysis algorithms in hospital.

- European Oncological hospital: Role and tasks to be performed: Expertise and data providers for the pilot project

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

H2020-SC1-DTH-01-2019: Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment

Anticipated Project Budget

3M€

Coordinator Required

Yes

Deadline for EOI

08 Feb 2019

Deadline of the Call

24 Apr 2019

Project Duration

120 week(s)

Weblink to the Call

https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sc1-dth-01-2019.html

Project Title and Acronym

SITRAQ - SImulator of TRAjectories of Quality of Life

Profile Status: Published

Research & Development Request

H2020- DT-TRANSFORMATIONS-02-2019: Research institutions with expertise in digital transformation and public services

Summary

A Spanish SME company, specialised in ICT solutions and with wide experience in the coordination of European projects, is looking for a university or research centre to participate in an H2020 proposal to the call DT-TRANSFORMATIONS-02-2019 "Transformative impact of disruptive technologies in public services". The project will assess the impact of disruptive technologies in public administration. Researchers with expertise in digital transformation and public services are sought.

Creation Date	21 January 2019
Last Update	25 January 2019
Expiration Date	14 February 2019
Reference	RDES20190117002
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/fceffc47-bd84-44ff-b641-67dee1f58896

Details

Description

The project approach is aimed to assess the socio-economic, legal, ethical and operational impact of disruptive technological solutions on public administration. More specifically, the focus is on eID management and how public services may be improved when introducing a distributed scheme relying on cutting-edge techniques. To this end, five different case studies will be addressed, representing diverse scenarios all around Europe and, thus, very different contexts. The involvement of end users from the very beginning will be key to achieve the overall and specific goals.
Key activities will include the definition of the methodology, interfacing with end users and technical developers, collaboration in the socio-economic analysis, etc.
The consortium has already 13 partners with different profiles: universities, technology centres, companies, municipalities and a police department.
Research groups working on the transformation of public administration and public services with extensive experience in methodological approaches to introduce new technologies would be the best fit. Technical expertise is not needed but recommended. The partner should:
• Define the co-creation methodology, and be in charge of the co-creation process during the whole project.
• Guide the definition of use cases and common requirements, jointly gathered from the different pilots.

• Guide the definition and implementation of the pilots in the different cities/regions.
• Extract conclusions of the research from the public administration/services transformation point of view.

EOI deadline: 14th February 2019.
Call deadline: 14th March 2019.
Project duration: 156 weeks.

Stage of Development

Proposal under development

Comments Regarding Stage of Development

A similar proposal was submitted last year and rejected by the European Commission. The Spanish company is currently improving the approach and content, so the consortium is completed (including use cases) except for the profile sought.

Keywords

Technology

01003006	Computer Software
01003008	Data Processing / Data Interchange, Middleware
01003009	Data Protection, Storage, Cryptography, Security
01003011	Electronic Commerce, Electronic Payment & Signature
01004005	e-Government

Market

02006004	Data processing, analysis and input services
02006007	Databases and on-line information services
02007007	Applications software
02007022	Software services
09003007	Other services (not elsewhere classified)

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI : No

Dissemination

Relevant Sector Groups

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

The partners sought are research groups working on the transformation of public administration and public services. They need to have extensive experience in methodological approaches to introduce new technologies, and they will be in charge of the co-creation process during the project.

Type and Size of Partner Sought

University,R&D Institution

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Europe in a changing world – inclusive, innovative and reflective Societies

Call title and identifier

DT-TRANSFORMATIONS-02-2019 “Transformative impact of disruptive technologies in public services”

Coordinator Required

No

Deadline for EOI

14 Feb 2019

Deadline of the Call

14 Mar 2019

Project Duration

156 week(s)

Profile Status: Published

Research & Development Request

H2020-FETOPEN-01-2018-2019-2020: SMEs with expertise in reproductive tissue engineering in 3D sought for a project on improving animal and human reproductive performance and health

Summary

A Spanish research centre working in agriculture and husbandry is preparing a proposal for the call H-2020-FETOPEN-01-2018-2019-2020: FET-Open Challenging Current Thinking. The project will develop a 3D cell culture model of the female reproductive system (human, bovine, porcine and dog) with the aim of improving animal and human reproductive performance and health. The partners sought are SMEs with expertise in reproductive tissue engineering in 3D.

Creation Date	22 January 2019
Last Update	25 January 2019
Expiration Date	02 May 2019
Reference	RDES20190122001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/e0604df5-bc19-49be-8910-950bde8952e1

Details

Description

Endometriosis, uterine infections and hormonal problems are reproductive disorders that impair fertility in human and other animal species. Infertility negatively affects health and welfare and carries severe economic losses to livestock up to 1.4 billion €/year just in EU.
The project will develop a 3D cell culture model of the female reproductive system (human, bovine, porcine and dog) from last updates in the field.
This proposal will provide alternatives to animal testing, increase the efficiency of treatments for female infertility –including human- and improve animal production.

The proposal is being prepared for the next FET OPEN call (H2020-FETOPEN-01-2018-2019-2020: FET-Open Challenging Current Thinking; 19 Sep 2019) by an international consortium of nine partners from eight European countries representing academic institutions, research centres and small industries that combines basic and translational research.

The Spanish research centre is looking for SMEs to perform the following tasks in the project:
- Development of new nanomaterial for 3D mammalian cell culture
- Development of platforms (i.e. microfluidic chips) for 3D multicellular culture system
- Development/ known how transfer-training of analytical tool compatible with samples in nm

range.

EOI deadline: May 2nd 2019.
Call deadline: September 19th 2019.
Project duration: 156 weeks.

Advantages and Innovations

3D reproducible, reliable cost-effective and easy-to-use in vitro culture models for oviduct and endometrium will be established for the first time.

Stage of Development

Proposal under development

Keywords

Technology

06002007	In vitro Testing, Trials
06003001	Bioinformatics
06004	Micro- and Nanotechnology related to Biological sciences
06006004	Biopolymers
07001009	Veterinary Medicine

Market

03007003	Other analytical and scientific instrumentation
04009	In vitro Testing, Trials
04017	Micro- and Nanotechnology related to Biological sciences
05001005	Molecular diagnosis

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Healthcare

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
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

SMEs are sought with expertise in:
- Nano-systems for 3D cell culture
- Diagnostic tool development
- Medical Technology / Biomedical Engineering

They will apply their expertise to collaborate in the 3D cell culture model of the female reproductive system.

Type and Size of Partner Sought

SME 51-250

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

FETOPEN-01-2018-2019-2020: FET-Open Challenging Current Thinking

Anticipated Project Budget

Up to 3 million euros

Coordinator Required

Yes

Deadline for EOI

02 May 2019

Deadline of the Call

19 Sep 2019

Project Duration

156 week(s)

Weblink to the Call

https://ec.europa.eu/programmes/horizon2020/en/h2020-section/fet-open

Profile Status: Published

Research & Development Request

URGENT H2020 SC5-09-2018-2019: Advances toward the development of high capacity and selectivity adsorbents for the recovery of transition metals from seawater and brines sought from a Greek R&D institution

Summary

A Greek R&D Institution is currently working on preparing a proposal under the H2020 topic SC5-09-2018-2019 that deals with the development of cost-effective porous adsorbents able to recover from seawater and desalination brines, several valuable transition metals at high binding capacity and selectivity. The institution is looking for industrial and/or academic partners with expertise on one or more of the project components and for industrial partner with access to desalination unit.

Creation Date	30 January 2019
Last Update	31 January 2019
Expiration Date	15 February 2019
Reference	RDGR20190130001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/929ef8c7-f1e2-4eb6-ba7f-102b3f02026e

Details

Description

The Greek Institution which is one of the leading Institutions of Greece conducts fundamental and technological research that is focused on cutting-edge areas of science, specific needs of industry and the environment. The Institution has a long-standing experience in R&D projects.

The project aims towards the development of a new generation of porous adsorbents able to bind specific transition metals (TMs - Cu, Co, Pt, Pd, Ag, Au, Mo, Ni, V) from seawater or brines and devise cost-effective and sustainable procedures for TM desorption / sorbent regeneration (TM mining from seawater).

To this goal, three categories of adsorbents will be developed, and tested to optimize their capacity to adsorb and desorb valuable transition metals, and select the most suitable ones for engineering configuration and scale-up: (i) low-cost and carbon-based bio-sorbents synthesized by modifying and functionalizing the biomass of wastes; (ii) low-cost inorganic materials prepared by modifying and functionalizing natural inorganic materials (e.g. perlite, bentonite, zeolites, ash, sand, clay); (iii) low-cost chelating ligands appropriately cross-linked to polymeric membranes.

Porous materials with high surface area and controlled pore structure properties will be prepared by processing and modifying raw materials of natural or industrial origin (e.g. waste biomass, natural materials, polymers). Depending on their sorption properties, the various categories of porous materials will be functionalized toward enhancing the sorption capacity and selectivity for each transition metal. Batch sorption tests will be conducted with four types of water: (i) synthetic seawater; (ii) synthetic brine; (iii) real seawater; (iv) real brine of desalination. For the most efficient adsorbents, cost-effective and sustainable (in terms of materials and energy consumption) methods of metal desorption and sorbent regeneration will be investigated. Numercial modeling will be combined with results of batch tests to design and construct two prototypes: one for isolating TM from seawater and one for separating TM from brines produced in desalination units. Material flow analysis, cost-beneft analysis, and environmental assessment will allow us to assess the viability and sustainability of a adsorption/desoprtion technology for the production of TMs from seawater either as a standalone or as a post-treatment (brine) process.

Workpackage 1 (WP1). Project coordination and management
Workpackage 2 (WP2). Development and testing of functionalized bio-sorbents
Workpackage 3 (WP3). Development and testing of functionalized natural sorbents
Workpackage 4 (WP4). Development and testing of polymeric adsorbents
Workpackage 5 (WP5). Metal desorption and sorbent regeneration
Workpackage 6 (WP6). Design, manufacturing, and testing pilot-scale prototypes
Workpackage 7 (WP7). Life cycle assessment, cost-benefit analysis, and sustainability assessment
Workpackage 8 (WP8). Exploitation and dissemination of project results

At the moment the Greek Institution is looking for additional industrial and/or academic partners with experience and expertise on one or more of the project components: metal adsorption / desorption processes, adsorbent regeneration, seawater/brine processing, life cycle assessement and cost benefit analysis. In addition the Institution seeks industrial partner with access to desalination unit. The collaboration offered is research cooperation agreement.

- Official call Deadline: 19 February 2019
- Internal deadline for EoIs: 15/02/2019

Stage of Development

Proposal under development

Keywords

Technology

02007010	Metals and Alloys
10004007	Desalination

Market

08001012	Speciality metals (including processes for working with metals)

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Environment
Intelligent Energy

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

1984

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Greek

Client Country

Greece

Partner Sought

Type and Role of Partner Sought

The Institution is looking for:

(1) Industrial (SMEs, industry) and/or academic partners with experience and expertise on one or more of the project components: metal adsorption / desorption processes, adsorbent regeneration, seawater/brine processing, life cycle assessment and cost benefit analysis.

(2) Industrial partner with access to desalination unit.

The requested type of collaboration is a research cooperation agreement.

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Climate action, environment, resource efficiency and raw materials

Call title and identifier

New solutions for the sustainable production of raw materials (RIA).
ID: SC5-09-2018-2019

Submission and evaluation scheme

Two-stage

Coordinator Required

No

Deadline for EOI

15 Feb 2019

Deadline of the Call

19 Feb 2019

Weblink to the Call

https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc5-09-2018-2019

Project Title and Acronym

Advances toward the developMent of high capacIty and selectivity adsorbeNts for the rEcovery of transition metals from seaWATER and brines (MINE-WATER).

Profile Status: Published

Research & Development Request

H2020: Company manufacturing autonomous agricultural machines is sought for SU-SPACE-EGNSS-3-2019-2020

Summary

A French SME with high expertise in connected GNSS (Global Navigation Satellite System) receiver, big data and 3D HD (High Definition) maps is developing a proposal for the topic SU-SPACE-EGNSS-3-2019-2020. Project aims at developing a EGNSS (European GNSS) solution for vineyard operations, using autonomous agricultural robots. To complete the consortium, a company producing autonomous agricultural machines is sought to test the solution.

Creation Date	22 January 2019
Last Update	24 January 2019
Expiration Date	15 February 2019
Reference	RDFR20190121001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/3f39eec0-61ad-4ee4-9ab5-19abb7155e93

Details

Description

Precision agriculture, mapping and surveying have been the pioneers in the use of GNSS (Global Navigation Satellite System). Taking advantage of additional accuracy and features offered by EGNSS (European GNSS) will lead to a more efficient agriculture and to a conservative use of fertilisers, pesticides and other chemicals.

Vineyards and their employees could benefit widely from EGNSS applications are they are significant users of chemicals.
Furthermore, using precise autonomous vehicles will improve productivity and decrease costs in this sector with a very limited level of automation.

For these reasons, the French company's proposal aims at making more affordable and easier-to-use EGNSS solutions for precise agriculture applications.

The developed GNSS receiver targets an absolute accuracy in the range of the decimeter without the need of a local base station. Moreover, the standalone receiver has been designed to be deployed on any type of four-wheel vehicles without the need to alter mechanically or electrically the vehicle.

Today, the consortium includes 4 SMEs and 2 universities and targets the “agriculture”

challenge under the topic “EGNSS applications fostering societal resilience and protecting the environment” (SU-SPACE-EGNSS-3-2019-2020)
To complete its consortium, the French company is looking for a manufacturer of autonomous agricultural machines:
• To qualify and to quantify the manufacturer's geolocation needs for the GNSS device requirements.
• To implement a first GNSS receiver prototype
• And to test the solution developed in the project.

Deadline for EOI : 15/02/2019
Deadline for the call: 05/03/2019

Advantages and Innovations

The consortium has already strong expertise in GNSS receiver and algorithm development.
The developed GNSS receiver is electrical self-sufficient and so does not need to be connected to the vehicle’s battery. The receiver is composed of several sensors (inertial, GNSS and vision) aiming at achieving an accuracy of at least 30cm without the need of a base station.
Several farmers involved in precision agriculture have been approached and are willing to take part in this project as potential end customers.
In order to enrich the consortium, a company producing autonomous agricultural machines is sought to also be a potential end-user of the developed technology.

Stage of Development

Concept stage

Keywords

Technology

01006008	Satellite Technology/Positioning/Communication in GPS
07001001	Agriculture Machinery / Technology
07001007	Precision agriculture

Market

08002004	Robotics
09005	Agriculture, Forestry, Fishing, Animal Husbandry & Related Products

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Aeronautics, Space and Dual-Use Technologies

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2018

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
French

Client Country

France

Partner Sought

Type and Role of Partner Sought

Type of partner sought: company manufacturing autonomous agricultural machines

Role of partner sought: the partner will implement and test the applications developped within the project.

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

SU-SPACE-EGNSS-3-2019-2020

Submission and evaluation scheme

1-stage evaluation scheme

Coordinator Required

No

Deadline for EOI

15 Feb 2019

Deadline of the Call

05 Mar 2019

Weblink to the Call

https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-space-egnss-3-2019-2020;freeTextSearchKeyword=;typeCodes=1;statusCodes=31094501,31094502;programCode=H2020;programDivisionCode=null;focusAreaCode=31087051;

Profile Status: Published

Research & Development Request

H2020 - Regenerative Medicine – Partners with expertise in vascular immunology/pathology or intravascular catheter-based applications and toxicology required

Summary

A German research laboratory looks for industrial and research partners experienced in intravascular catheter-based application, toxicology, vascular wall immunology and pathology for a project under the H2020 call Regenerative medicine: from new insights to new applications. Aim of the project is to develop a method for preventing the pathologic dilatation of the aorta in case of aneurysms. The laboratory will induce the regeneration of elastin to finally stabilize the affected vessel sections.

Creation Date	28 January 2019
Last Update	30 January 2019
Expiration Date	22 February 2019
Reference	RDDE20190128001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/7dc9d85a-14ea-4b83-9406-7b00fefac848

Details

Description

Due to demographic change and the associated increase of elderly and multimorbid patients, an increase in thoracic and abdominal aortic aneurysm cases is to be expected. The current therapy is a continuous monitoring of progression. The inevitable progression of the disease increases the risk of rupture of the affected vessel over time. The rupture of the aorta often leads to strong and usually insatiable bleeding and can be fatal. Therefore, after reaching a diameter of > 5 cm, a preventive surgical procedure is required.

In order to tackle this problem a research laboratory of German university hospital is going to submit a proposal under the H2020 call SC1-BHC-07-2019 - Regenerative medicine: from new insights to new applications.
In this project, the research laboratory aims to induce the regeneration of elastin to stabilize the affected vessel wall. For this purpose, using the elastase-induced aneurysm model in rabbits, the stabilization of aneurysms and the progression will be investigated after the local administration of synthetic elastin-encoding mRNA (messenger RNA. Therefore, the synthetic mRNA complexed with a suitable transport vehicle is administered locally into the aorta and the protein synthesis of elastin is detected in elastase-induced aneurysm model in rabbits. At the beginning and 4 weeks after mRNA application, the change in vessel diameter is determined by sonography and angiography. Furthermore, treated vessel sections are examined histologically and by using ELISA (Enzyme-linked Immunosorbent Assay) and proteomics the production of

elastin, immune responses, and change of tissue physiology are analyzed. The described project represents a promising method for preventing the pathologic dilatation of aorta and could make a severe surgery unnecessary and minimize the risk of rupture in the long term.

The laboratory is looking for partners for a reasearch co-operation agreement with expertise in:
-Intravascular catheter-based application
-Toxicologists in the above field
-Vascular wall immunology: specifically, TLR (toll-like receptor) activation
-Vessel wall pathology

Partners can be from academia and industry, SMEs with relevant track records in the respective fields are welcome.
It would also be suitable if one organisation has expertise in several tasks.

Deadline of the call – 16 April 2019
RIA Research and Innovation action
Budget – up to 6 million Euro
Deadline for expressions of interest – 22 February 2019

Stage of Development

Proposal under development

IPR Status

Granted patent or patent application essential

Keywords

Technology

06001011	Heart and blood circulation illnesses
06001024	Medical Biomaterials
06002002	Cellular and Molecular Biology
06002005	Genetic Engineering
06002009	Molecular design

Market

05001005	Molecular diagnosis
05003005	Drug delivery and other equipment
05005011	Circulatory diseases

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI : Yes

Dissemination

Relevant Sector Groups
Healthcare

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
German

Client Country
Germany

Partner Sought

Type and Role of Partner Sought
Partners from academia and industry, also SMEs. They could be
-Specialists in intravascular catheter-based application
-Toxicologists
-Vascular wall immunologists: specifically, TLR (toll-like receptor) activation
-Vessel wall pathologists

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Societal challenges

Call title and identifier

Call : H2020-SC1-BHC-2018-2020
Topic identifier: SC1-BHC-07-2019
TOPIC : Regenerative medicine: from new insights to new applications

Submission and evaluation scheme

single-stage

Coordinator Required

No

Deadline for EOI

22 Feb 2019

Deadline of the Call

16 Apr 2019

Weblink to the Call

http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sc1-bhc-07-2019.html

Profile Status: Published

Research & Development Request

H2020-SC1-DTH-01-2019 Search for device manufacturer for health data recovery using internet of things

Summary

A Spanish research organization acting as coordinator in a proposal H2020-SC1-DTH-01-2019 is looking for a partner to complete their consortium. The objective of the project is to create a platform for analysing data related to children leukaemia quality of life after treatment. The entity sought must develop a prototype device for recovering health data patient.

Creation Date	17 January 2019
Last Update	30 January 2019
Expiration Date	14 February 2019
Reference	RDES20190117001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/99077d7a-145a-44d2-8d67-ed0187b04dfc

Details

Description

The project aims to create a network of knowledge in genetic data, treatment data, health data, self-reported health-related quality of life (HRQOL), psychosocial, environmental and lifestyle data in patients suffering leukaemia and will also consider other gender, education, and demographic factors. Once the ontology network of knowledge is created, new data driven analytic and advance simulation methods will be studied and selected to understand casual mechanisms and improve forecast of ill-health identifying diseases trajectories and relapses.

The project will investigate how different treatment, health, or psychological, education, gender, demographic or environmental factors affect health, psychology and quality of life for this population.

The proposal is composed of 7 partners, representing 5 member states (Spain, France, Switzerland, Germany, The Netherlands and Ireland)

The coordinator is looking for a company that can be involved in the following tasks: design and manufacture a prototype of device for recovering patient health data using internet of things.

There are no requirements in type or size. Easter country entities are welcome.

Funding programme: H2020- SC1-DTH-01-2019 Research and Innovation action.

Expressions are welcome before the 14 February 2019

Call deadline: 24 April 2019

Duration of the project: 36 months

Available budget for the Project: 5,000,000€ available budget for the partner 200,000€ but subject to tasks responsibilities achieved

Advantages and Innovations

The project will make use of several technological solutions in a creative way to propose solutions to defined problems related with health supervision in leukaemia treated patients.

Keywords

Technology

01003023	Environmental and Biometrics Sensors, Actuators
01003025	Internet of Things
01004001	Applications for Health
06005002	Sensors & Wireless products

Market

05001007	Other diagnostic
05003001	Therapeutic services
05007004	Monitoring equipment

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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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

Yes

Languages Spoken

English
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

The research centre is seeking for a company, manufacturer of devices for health data recovery using internet of things, such as bracelets, watches or others. The role of the partner will be to research the best devices for the recovery of the requested data and manufacture the prototype devices to be validated during demonstrative phases.

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Health, demographic change and wellbeing

Call title and identifier

SC1-DTH-01-2019 Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatmentResearch and Innovation action

Submission and evaluation scheme

One stage

Anticipated Project Budget

5,000,000

Coordinator Required

No

Deadline for EOI

14 Feb 2019

Deadline of the Call

24 Apr 2019

Project Duration

144 week(s)

Weblink to the Call

http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/sc1-dth-01-2019.html

Profile Status: Published

Research & Development Request

UK research institute and water company seeking lead partner for water-related Horizon 2020 project

Summary

A UK research institute and water company are seeking a lead partner for H2020-SC5-04-2019, Building a water-smart economy and society. The research institute is home to one of the main centres for transdisciplinary water research in Europe and can contribute expertise in working with water industry, economics analyses, circular economy and nature-based solutions. The water company can provide access to demonstration sites in Scotland. A research partnership is envisioned.

Creation Date	09 January 2019
Last Update	10 January 2019
Expiration Date	15 February 2019
Reference	RDUK20190109001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/bea0c1bc-4253-4a13-90ca-22a3a62131b5

Details

Description

The research institute and water company are interested in joining an existing consortium for Work Programme 5, H2020-SC5-04-2019, Building a water-smart economy and society, a two-stage Innovation Action, closing 19 February 2019.

The research institute connects research and policy and delivers objective, robust and transdisciplinary research and provides expert opinion to support the development and implementation of national water policy and to provide evidence in topics such as circular economy, management of natural capital and other parts of national economy. The organisation has the experience of producing excellent research and participating in numerous H2020 and other international projects in cooperation with academic and non-academic partners. It has implemented multi-stakeholder approach for best stakeholder engagement in various past and on-going projects and has established close working links with key industries including water utilities. This would facilitate the institute supporting a consortium to find industry partners from UK.

The institute also offers social science know-how required in the call in addition to its main expertise in economic analyses, sustainability, implementation of nature-based solutions and natural capital. It has the institutional capacity to lead a work package that will address the regulatory and institutional barriers that could impede the wide application of developed innovative solutions.

The institute has a research group that focuses on behavioural change and innovation. The group can identify the complex challenges related to human behaviour and attitudes towards water taking different aspects, such as gender, and explore the inter-linkages between policy and implementation, and acceptance of the solutions developed by both the public and other water users.

The research organisation works closely with a regional water company, who provide water and wastewater services to 5 million people across Scotland. The water company has an active programme of research and innovation focused on delivering resilient, reliable and sustainable water and wastewater services. They have demonstration facilities for water and wastewater treatment and can provide access to water and wastewater networks for testing of potential solutions.

The research institute and water company have previously collaborated successfully.

Timescales:

Official deadline for the call: 19 February 2019
Deadline for Expressions of Interest: 15 February 2019
Project duration: 2-3 years

Advantages and Innovations

The research organisation is interested in participating in a consortium for either subtopic A and B.

Subtopic A
- Developing a business case for recovery and use of recycled resources using a total value framework
- Performing cost benefit/feasibility analysis of implementation and evaluation of innovation proposed and develop a framework relevant water industry to complement EU Environmental Technology Verification Pilot (ETV) programme
- Driving capital and operation costs down with inclusion of nature-based solutions in the modelling of water supply networks and wastewater treatment facilities and reducing the inherit uncertainties in the outcomes of nature-based solutions

Subtopic B
- Investigation of how the full cost recovery principle endorsed in the EU WFD (Water Framework Directive) can be applied to manage water demand and efficient allocation of water to its competing uses
- Estimation of total value added, and cost avoided in the operations of multiple (urban, industrial, rural and agricultural etc.) end users resulting from innovation deployment and use of nature-based solutions
- Estimation of total value added via prevention of water pollution and degradation of the aquatic environment and soil resulting from possible gains in terms of recycling and reuse of water; recovery of energy and materials; contributing to wider sustainability assessments
- Developing cost-effective management strategies of the water system and infrastructure and compiling best practices around the world in marketing and financing for attracting investment to water sector

The water company can provide demonstration capabilities for either subtopic.

Keywords

Technology

04005009	Energy from wastewater
10002007	Environmental Engineering / Technology
10004002	Municipal Water Treatment
10004003	Wastewater Recycling
10004008	Water Resources Management

Market

08004003	Water treatment equipment and waste disposal systems
09008002	Water, sewerage, chemical and solid waste treatment plants

NACE

E.36.0.0	Water collection, treatment and supply
F.42.9.1	Construction of water projects

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

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

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

The research organisation and water company are seeking a lead partner from industry or academia that would take on the below responsibilities:

1. Developing digital solutions for the monitoring, control and optimisation of data and processes and for data collection that would enable documentation, dissemination and verification of performance and feasibility of the innovation

2. Providing a technological, modelling or governance innovation ready to be deployed and carried out at least to the TRL 5-7 within the timeframe of the project.

3. Market take-up partners and/or end users from a wide range of different European regions to assure applicability and wide deployment of the innovation in different conditions such as different water resources, economic, social and regulatory settings.

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

Program - Call

Framework Program

H2020

Call title and identifier

Building a water-smart economy and society, H2020-SC5-04-2019

Submission and evaluation scheme

Types of action: IA Innovation action
Deadline model: two-stage
1st stage deadline: 19 February 2019 17:00:00
2nd stage Deadline: 04 September 2019 17:00:00

Anticipated Project Budget

EUR 10 to 15 million

Coordinator Required

Yes

Deadline for EOI

15 Feb 2019

Deadline of the Call

19 Feb 2019

Project Duration

156 week(s)

Weblink to the Call

http://ec.europa.eu/research/participants/portal4/desktop/en/opportunities/h2020/topics/ce-sc5-04-2019.html

Profile Status: Published

Research & Development Request

SME Instrument Phase II - A Spanish company is looking for partners to implement a pilot around an Internet of Things water device

Summary

A Spanish SME is looking for a European company to cooperate in an R&D project aiming at setting a series of demonstrative tests of Internet of Things (IoT) water devices. The proposal will be presented at SME Instrument Phase II call. The partner sought should be a facilitator for the implementation of the technology in several sites. After the project, the company should be interested in license or commercial agreement.

Creation Date	05 November 2018
Last Update	12 January 2019
Expiration Date	01 March 2019
Reference	RDES20181105002
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/d0522369-a025-4520-a264-fefd168f89c9

Details

Description

R&D engineering SME (<10 employees) company specialized in product development and strategy consultancy for technological businesses that creates products based on innovation, efficiency and simplicity for customers and several sectors. On the engineering side, their activity includes mechanical & electronic engineering, product & process design, packaging design, prototyping, CE marking management and commercial product design. They own the Young Innovative Company and Technology-based Innovative Company certificates as proof of the quality of our work.

The project relates to their patented technology, which aims at creating more sustainable housings, businesses and people. The main purpose of the technology is to help reduce the amount of water needed every time hot water wants to be consumed. As it is widely known, when the user wants hot water, there is a certain amount of cold drinking water that must be wasted before the water comes hot. They thought it should not be that way.

This technology is already in the Spanish market in a basic version. What they want to do now is creating an evolution based on notably incresed connectivity and functions towards the IoT/Smart City market.

This technology is nowadays using RF to communicate between modules, but it is not still

connected to the internet of things or recording data for users and smart cities administrations later usage. The main purpose of this project is to develop this connectivity feature and some relevant functions within the device in order to use it as an IoT element ready to market take-up. For that objective, the technology should undergo a series of processes:

- research and design
- prototyping
- performance verification and testing
- development of pilot lines
- validation por market replication
- scaling-up

On a general basis, the project will consist on:

- CONSORTIUM: Initial description of the design requirements and implementation opportunities.
- LEADER: Design and creation of prototypes for the pilot.
- PARTNER: Pilot configuration. Installation of the prototypes.
- PARTNER: On-site follow up of the prototypes functioning.
- LEADER: Remote follow up of the prototypes functioning.
- CONSORTIUM: Results analysis.
- LEADER: Modifications. Re-desing.
- CONSORTIUM: Final validation.
- LEADER: Scale-up analysis. Manufacturing pilot.
- LEADER: Final device desing. CE marking.
- CONSORTIUM: Results dissemination.

Thus, at the end of the project, the technology will be sufficiently developed and tested so that the manufacturing processes permit a scalable and replicable business for the companies in the project, a measurement method for environmental impact, a society awareness tool for water usage and a platform for companies and administrations to improve smart city planning and water resources distribution.

The company is interested in another SME (>50 employees) or MNE (Multinational Enterprise) with interest in developing the IoT device pilot and future manufacturing, license or commercial agreement in several European regions (mainly, Germany, France, UK, Sweden. Other areas might be considered). The partner participating should have at least 5 years of expertise in the field of construction, installation, efficiency or related.The potential to become a technical or commercial local partner after the project results will be taken into account for partner selection.

The deadline for expressions of interest is the 15th of January 2019, as the are planning to submit the project proposal at the cut-off date of the 1th of May 2019.

The interest of the company is starting the project as soon as possible after the deadline. For a proper collaboration workplan synchronization, April-May 2019 is acceptable.

Advantages and Innovations

The current technology is based on up to 5 different modules that complement each other in order to create a temporary on demand recirculation cycle inside the house/business using its existing plumbing installation. The user triggers the cycle using an activator, which also shows when hot water is ready at the desired bathroom or kitchen where it is going to be used. As it is made of different modules, it has the flexibility to adapt to different kinds of installations and users, just by adding the number and type of modules needed in each case. More over, once a layout of this technology modules has been settled, the configuration and functions can increase during its lifecycle, adding new modules at anytime later.

The new evolution to be developed during the project will be the first IoT domestic water controlling device in the world. Besides the activation and temperature measurement, the new device will control the amount of water saved in every use, so the user knows when Return on Investment (ROI) happens. Another important function is that the cycle will trigger automatically (so, heating the installation) when water inside the pipes is about to reach the freezing temperature, which is dangerous for the safety of the plumbing installation and the users. If there is a leakage in one of the pipes or a tap has been left turned off, the device will allow the user to cut the flow of water immediately through its smartphone.

These and some other features will be implemented during the pilot to be validated, and then, included into the final product design.

This innovation is registered by patent.

IPR Status

Patents granted

Keywords

Technology

01003022	Smart Appliances
01003025	Internet of Things
02006001	Materials, components and systems for construction
03010	Household Goods & Appliances
10004012	Water in Buildings

Market

07004003	Home furnishing and housewares
08002003	Process control equipment and systems
09004004	Hardware, plumbing supplies
09007002	Manufacture of construction materials, components and systems
09007004	Engineering and consulting services related to construction

NACE

C.26.4.0	Manufacture of consumer electronics
C.27.5.1	Manufacture of electric domestic appliances
M.71.1.2	Engineering activities and related technical consultancy
M.72.1.1	Research and experimental development on biotechnology
M.74.1.0	Specialised design activities

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Sustainable Construction

Restrict Dissemination to Specific Countries

Austria, Belgium, Canada, Denmark, France, Germany, Italy, Japan, Netherlands, Norway, Portugal, Sweden, Switzerland, UnitedKingdom, USA,

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
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

The partner sought should be a facilitator for the implementation of the technology in several sites (whole buildings, individual houses or businesses) that should provide mainly: access to the site where the installation and measurements are to be made; installation of the modules in its different configurations; collaborative tracking of the experiments by visits to the sites, questionnaires to the users/customers, resolution of incidentes, etc.; analysis of the technology and its compliance with local building and installation norms; analysis of modifications to be made in the technology ir order to: solve problems, improve efficiency or applicability, comply with local directives and norms, addition of functions as a result of user experience; an other related tasks.

The profile of such partner should be one related to the building, installation or real estate sectors (construction or installation companies, real estate agencies) or that operates as a professional services company for such sector (like engineers, architects, home automation companies, efficiency analysts, etc.). Partner can be private or public: like City Halls, clusters and entities of the sort that might be interested in participate. Partner ought to have the capabilities to accomplish the described tasks individually or in collaboration with third parties whom it will be responsible for.

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Innovation in SMEs

Call title and identifier

SME Instrument Phase II

Submission and evaluation scheme

Single-stage submission

Anticipated Project Budget

750,000€

Coordinator Required

No

Deadline for EOI

01 Mar 2019

Deadline of the Call

01 Mar 2019

Project Duration

82 week(s)

Weblink to the Call

https://ec.europa.eu/programmes/horizon2020/en/h2020-section/sme-instrument