



enterprise europe

Boletín de Oportunidades de Cooperación

TIC y Seguridad

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CONSEJERÍA DE ECONOMÍA Y CONOCIMIENTO



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1. Perfiles de cooperación (36)

	Título	Referencia	País	Cooperación buscada	Tipo
1	H2020-FTI: City authorities, smart device manufacturers and graphical designers sought for a project on smart cities	RDES2016041900 1	Spain	<ul style="list-style-type: none"> - End – users / validators: Public/Private Management Authorities that manage city infrastructures (hospital, museums, hotels, airport, metro/train stations, leisure centres, etc.). From EU countries (out of Spain) and profit or non-profit (preference: profit). - Smart devices manufacturers (tablets / mobiles): From EU countries (out of Spain) and profit or non-profit (preference: profit). - Graphical designers: From EU countries (out of Spain) and profit or non-profit (preference: profit). <p>SMEs are encouraged to participate. SMEs first time submitting are also welcome.</p>	Proyecto buscando socios
2	Horizon 2020 - Fast Track to Innovation Pilot: energy service companies/industries needed to realise and auditing platform for global energy efficiency	RDIT20160502001	Italy	<p>The partner sought (neither Italian, nor French) belongs to one of the following categories:</p> <ul style="list-style-type: none"> - ESCO (Energy Service COmpany) or facility manager companies to assess the audits; - Trade Associations to help define EPI (KPI), BAT, methods and then validate them among their own members; - Industries/Companies to evaluate ETA on their own systems; - Research bodies specialised in energy efficiency measures; - Public Authority for the audit validation. 	Proyecto buscando socios
3	EUREKA or Joint R&D partner sought on remote telehealth	RDKR2016050400 1	South Korea	<ul style="list-style-type: none"> - Type of partner sought : Large company / SME - Specific area of activity of the partner : Digital Healthcare / Health service S/W development - Task to be performed : Remote health care server/service software development 	Proyecto buscando socios
4	Partners sought for EUROGIA2020 proposal on solar tracking	RDTR2016041500 1	Turkey	<p>The company is looking for organizations eligible to apply for EUREKA funding in their respective countries with expertise in battery, inverter and/or PV panel manufacturing, energy management, and solar resource mapping.</p> <p>The partners can be sole manufacturers, IT companies experienced in energy management or manufacturers with a certain level of IT expertise.</p> <p>Expertise sought:</p> <ul style="list-style-type: none"> - Battery manufacturing - Inverter manufacturing - PV panel manufacturing - Energy management systems - Solar resource mapping & forecasting 	Proyecto buscando socios
5	AAL- Call 2016: Hungarian health management company is looking for data analysis partners for multi-disciplinary therapeutic management of	RDHU2016041500 1	Hungary	<ul style="list-style-type: none"> - Type of partner sought: SME with research competencies - Specific area of activity of the partner: medical data analysis - Task to be performed: physiological monitoring data analysis 	Proyecto buscando socios

	demented patients project				
6	Non-photorealistic rendering algorithms for cultural heritage application	TOIT20160202001	Italy	<ul style="list-style-type: none"> - Type of partner sought: SMEs, public organisation (such as museum), company and/or technology transfer centre - Specific area of activity of the partner: ICT, Tourism, Cultural Heritage - Task to be performed by the partner sought. Partners sought both in academic or industrial field will co-operate to further develop the offered software solutions. 	Oferta
7	Solution of real time and event (RTE) driven middleware software for sensor cloud business model for smart factory	TOKR20160325001	South Korea	<ul style="list-style-type: none"> - Type of partner sought: Company - Specific area of activity of the partner: ICT services - Task to be performed : Technical cooperation with joint further development for localization application 	Oferta
8	A Korean company offering a new concept of project management system to optimize collaboration among team members and across multiple organizations	TOKR20160406001	South Korea	A potential partner could be supplier and distributor of software program. Partner's client could be company, public research institute and university or any business groups that consists of at least one team. The partner, having a sales partnership with the firm, is expected to sell the product as an exclusive distributor under the commercial contract with technical assistance provided.	Oferta
9	A Korean research institute is looking for partners for technology transfer with license agreement on high speed close proximity point-to-point communication	TOKR20160406002	South Korea	The research institute is looking for a company as a business partner for technology transfer with license agreement in the chip, smartphone module and solid state drives manufacturing industry	Oferta
10	Device for generating mechanical waves in solid materials	TORO20160208001	Romania	<p>The type of the partner sought: industry, academic and/or research organisation. These partners should be active in the field of materials' science, non-destructive materials control, defective materials, measurement of the non-destructive thickness of structures.</p> <p>The task to be performed by the industrial partner sought: further development in joint cooperation with academia and the research team as well as technological transfer, with specific technological services received from the Romanian research team.</p> <p>The task to be performed by the academic and/or research organization: further development of the device, together with the Romanian research team and industrial partner, within the research cooperation agreement.</p>	Oferta
11	Method and equipment for testing road longitudinal profiles in dynamic regime	TORO20160324001	Romania	<p>The research institute is looking for partner(s) such as:</p> <ul style="list-style-type: none"> -universities and research institutes, in order to establish research and technical cooperation agreements for a) developing new applications and b) testing this method in laboratory and in real conditions; -SMEs, for manufacturing agreements (for introducing the method and equipment for 	Oferta

				testing the road longitudinal profiles in dynamic regime in the manufacturing process).	
12	Integrated microprocessor system for diagnosis of material processing	TOUA2016040400 1	Ukraine	<p>Type: company, institution or any business associated with machining, turning, milling, drilling and other types of cutting processing of various materials, including metals, plastics, wood and paper. Primarily in oil and gas industry that requires equipment for complex preparation of oil and gas.</p> <p>Area of activity: mechanical engineering and other industries associated with machining, turning, milling, drilling and other types of cutting processing of various materials, including metals, plastics, wood and paper.</p> <p>Partner role: research cooperation in complex preparation of oil and gas equipment, development and using of microprocessor systems to improve of technological process of mechanical processing of materials.</p>	Oferta
13	Innovative plant technology for water disinfection based on sodium hypochlorite	TORS2016040700 1	Serbia	<p>Type: Industry</p> <p>Activity: the company in the field of water disinfection, swimming pools disinfection, water disinfection of food and drink industry, and other companies who have a need for water disinfection of the use of sodium hypochlorite.</p> <p>Role: in commercial agreement with technical assistance, it is expected from the partner to buy the innovative product. In joint Venture Agreement, it is expected from the partner to be familiar with the market and be able to look for project that requires joint apparent on the certain project where water disinfection or sodium hypochlorite solution is needed. It is also needed to find customers for company's innovative technology.</p> <p>In license agreement, it is expected from the partner to operate according to company's standards and to expand the product to new markets, with obligation to pay compensation.</p>	Oferta
14	Internet solution for call centres.	TORU2016040400 1	Russia	<p>Type: companies offering call centre services (outsourcing ones included), marketing companies</p> <p>Field of activity: rendering of call centre services, marketing/sociological researches.</p> <p>Role: companies interested in the solution deployment to increase call centres performance and marketing/sociological researches quality.</p>	Oferta

15	A Polish company has developed a telemedical solution for fetal health monitoring, seeks international partners for technical cooperation or a joint venture agreement.	TOPL20160315001	Poland	<p>The partner should be a company active in the field of telemedicine with a good contact network to local healthcare professionals.</p> <p>Ideally the partner should have experience in the commercialization of telemedicine healthcare devices.</p> <p>The partner will be responsible for product launch and adaptation to his local market.</p>	Oferta
16	German Fabless Design House Offers Radiation-Hardened Microelectronics and Smart Actuators	TODE2015120900 2	Germany	<p>The firm is looking for companies and research organisations requiring custom design capabilities in microelectronics and/or mechanisms. Potential partners demand high-reliable, light-weight and low-power mechanisms based on Shape Memory Alloys.</p> <p>The role of potential partners can vary between end-using the delivered technology for their own development or production purposes to being cooperation partner in a joint development project, e.g. in order to develop and test novel applications for the offered technology in aerospace surroundings.</p> <p>Cooperation can generally include commercial activity in order to bring a certain application to the market (commercial agreement). This agreement can include technical assistance.</p> <p>Also, research or technical cooperation agreements for joint development projects are of interest for the company. Here, the role of the partner would include testing the technology in different surroundings for specialised purposes, on which basis the company can improve the technology.</p>	Oferta
17	Mobile immersive experience video technology for online marketing	TOES20160407004	Spain	<p>The Spanish startup is looking for international partners in the field of mobile marketing and multimedia content such as marketing agencies, video content providers and creators, online TV channels, action games companies, action movies producers, music video clips producers, etc. interested in creating a new way of sharing their mobile video content online and increase the engagement of fans and users.</p> <p>The role of the partner sought is to commercialise this technology within their region under commercial agreements with technical assistance.</p>	Oferta
18	Algorithms to produce digital mosaics from images	TOIT20151201001	Italy	<p>Company or applied research centre sought for technical cooperation.</p> <p>Partner sought: organization working in the fields of ICT, digital museum, ceramics production, others.</p> <p>Task requested: digital mosaics of artistic quality from images.</p>	Oferta

19	Emergency lowering device for vehicle door windows	TOSE20160311001	Sweden	<p>Car - vehicle manufacturer or subcontractor to the automotive sector that would like to buy the patent through a commercial agreement with technical assistance.</p> <p>Production of cars or parts to automotive sector.</p> <p>The partner is expected to implement the invention into production</p>	Oferta
20	Innovative portable wireless platform with smart sensors for the processing and monitoring of traffic trend and environmental information, designed and tested by a Spanish University	TOES20160413002	Spain	<p>-Type of partner sought: companies, universities or research centers.</p> <p>-Field of activity: actors in traffic management and road management, as well as research groups working on projects related to urban traffic management.</p> <p>-Task to be performed: the spanish research group offers the system (license), training and technical consultancy. The partner should use or commercialize the system by making some testing and modifications, or co-work for its improvement.</p>	Oferta
21	A full-field X-ray camera for materials characterization in multidisciplinary applications	TOIT20160122002	Italy	The partner sought is a company which should exploit the technology for adapting the non-destructive technique to material investigation and micro-analysis applications.	Oferta
22	Technology for radioactive waste monitoring, in storage sites and in the environment	TOIT20151201003	Italy	Task to be performed by the partner sought: Exploit the technology in storage sites for real-time monitoring of radwaste.	Oferta
23	Technology improving efficiency of water-tube boiler rooms is offered.	TOPL20160329001	Poland	The scientists are interested in selling their technology or share it under license agreement with partners such as water-tube boiler manufacturers who want to improve their products or building administrators who are engaged in facilities and construction management who want to improve working of their boiler rooms.	Oferta
24	Ultrasonic transducer for three-dimensional imaging	TOLT20160418001	Lithuania	<p>- Type of partner sought:ultrasound scanner and/or probe manufacturer/ experienced entrepreneur/investment company</p> <p>- Specific area of activity of the partner: Medical ultrasound</p> <p>- Task to be performed by the partner sought: Joint further development and commercialisation</p>	Oferta

25	Interactive pharmaceutical packaging to support homecare patients and clinical trials	TOSE20160404001	Sweden	<p>Partners interested in intelligent pharmaceutical solutions, adherence and patient support.</p> <ul style="list-style-type: none"> - Commercial cooperation to sell the drug management solution to partners and customers operating in clinical trials, pharmacy dose dispensing or drug management in nursing home or home care - Technical cooperation with research partners within healthcare/academia/industry with interest and expertise within adherence, health economics or clinical trials. To adopt the solution for specific needs. - Knowledge partners active within ICT, e-Health or adherence support 	Oferta
26	Integrated system of technical infrastructure management for water and sewerage companies	TOPL20160418001	Poland	<p>A Polish company is looking for industrial partners working in water industry. Partners should be interested in buying property rights to the methodology and solution. The Polish company also offer their expertise and assistance in the prospective technology transfer and implementation process.</p>	Oferta
27	Wearable device and system for remote health monitoring during a diet program.	TOIT20160427001	Italy	<p>The company is looking for SMEs, organizations or subjects, such as hospital departments dealing with nutrition and diet, or private diet and wellness centers, interested in the integration of this interactive system for individual health control in their technological platforms of services.</p> <p>The company is interested in commercial agreements with technical assistance in order to adapt the system to specific clients' needs or in technical cooperation for a joint development of a customized system.</p>	Oferta
28	Novel method for non-destructive determination of mechanical material properties	TODE20160314001	Germany	<p>Type of partner sought: - Industry</p> <p>Specific area of activity of the partner: - Measurement technology - Material testing - Medical technology</p> <p>Task to be performed: - R&D cooperation in order to commercialize the technology</p>	Oferta
29	Partial- and microgravity simulation through random positioning	TONL20160330001	Netherlands	<p>Type of partner sought: Universities, (R&D) companies, institutes, hospitals, agencies.</p> <p>Specific field: Partner sought in one or more of the following research fields: - Life science, cell biology or microbiology. - Astrobiology or planetary research. - Regenerative medicine, tissue engineering or stem cell research.</p> <p>Role of partner: Performs research and/or development in one of the above mentioned fields and is interested in exploring and applying the</p>	Oferta

				benefits of microgravity by using the Random Positioning Machine.	
30	A Russian company specializes in development of control and monitoring software proposes partnership for companies interested in offering software solutions on remote device monitoring and management.	TORU2016033100 2	Russia	Ideal partners are representatives of small, medium or large IT businesses ready to become a distributor (reseller, VAR, system integrator) or wishing to distribute the software under their own brand. They can also be OEMs interested in monitoring and management of their equipment. Partners should have expertise in IT for no less than 5 years. Preferably those with a large client base and potential projects on monitoring and management of electronic devices.	Oferta
31	Energy efficiency and thermal comfort in buildings	TOIT20160412001	Italy	The research team is looking for research centres, universities and SMEs involved in energy efficiency sector or interested in thermal characterization. Potential partners can be also involved in cultural heritage field. The research team is interested in research cooperation or technical cooperation agreement to adapt the proposed methodology for a new application.	Oferta
32	Smart electric bike	TOHR2015090700 1	Croatia	Croatian SME is looking for partner who can manufacture this innovative bike on some other market than croatian. It is preferred that the partner is in cycling industry or some other companies with all needed equipment for production and fundamental knowledge. Also, partner interested in the technical cooperation agreement that can improve the product is sought. It can be universities and SME or MNE. For financial agreement is acceptable any partner that is interested in investment for further development of a new innovative product that has already been sought on the market or a big tech companies which could use this bike as fleet company vehicles.	Oferta
33	Offer of Wind Tunnel Facilities to experimental activities	TOPT20160404001	Portugal	SME, R&D Institution or University seeking for knowledge and expertise on theoretical and experimental wind tunnel activities as, for instance, the assessment of building structures and façade elements behavior, bridges aerodynamics stability, pedestrian comfort and safety in open spaces, vibrations induced at towers and chimneys, vehicles aerodynamics behavior or building ventilation conditions.	Oferta

34	Predictive algorithms modeling to forecast diseases and pests in crops plantations	TRIT20160406001	Italy	<p>Type of partner sought: academy, research organization, sme or similar, able to provide reliable predictive algorithms</p> <p>Specific area of activity of the partner: companies operating in agriculture and agronomists that have developed or can develop predictive modeling are an ideal fit;</p> <p>The company aims at starting a partnership with the modeling provider, or acquiring the license of the requested modeling.</p>	Necesidad
35	Medical imaging company for human applied thermo-photo-acoustic imaging prototype development.	TRFR20160301001	France	<p>The French laboratory is currently looking for an industrial partner with relevant experiences in medical software or device development having an expertise for regulation and commercialisation of medical devices - and interested in developing the prototype in human.</p> <p>For example, the team is seeking for software and equipment manufacturers for tomography.</p> <p>The type of partnership sought is a technical cooperation agreement.</p>	Necesidad
36	Looking for expertise in signal processing and sensors for nuclear measurement especially for beta and alpha radiation. Technical or research cooperation agreement is looked for.	TRFR20160419001	France	<p>The partner sought could be a company or a R&D institution and must have competence and necessary knowledge to realize a part of the prototype, especially the choice of sensors and the signal processing part.</p>	Necesidad

2. Informes y Publicaciones

Informe “Who will satisfy the desire to consume?” (Bell Labs Consulting y Nokia)

<https://pages.nokia.com/1503.bell-labs-mobility-report.html>

Informe “Industry 4.0: Building the digital Enterprise” (PwC)

<http://press.pwc.com/News-releases/ALL/Industry-4.0--companies-worldwide-are-investing-over-US-900-billion-per-year-until-2020/s/09B6F9D5-BF5F-4933-A14F-A0A48D7AA37Bb>

Digitising European Industry (Comisión Europea)

<https://ec.europa.eu/digital-single-market/en/news/brochure-digitising-european-industry>

Informe “2016 Global Connectivity Index – GCI” (Huawei)

<http://www.huawei.com/minisite/gci/en/>

Estudio Anual de Redes Sociales 2016 (IAB Spain y Eloia)

http://www.iabspain.net/wp-content/uploads/downloads/2016/04/IAB_EstudioRedesSociales_2016_VCorta.pdf

Informe “Growing Up Online. What Kids Conceal” (Kaspersky Lab e iconKids & Youth)
<http://www.kaspersky.com/about/news/product/2016/One-in-Two-Children-Hide-Risky-Online-Behavior-from-Parents-Kaspersky-Lab-Research>

Informe “Educación de las Ciencias de la Computación en España” (FECYT, Google y Everis)
<http://www.fecyt.es/es/noticia/se-presenta-el-informe-educacion-en-ciencias-de-la-computacion-en-espana-2015>

Dossier de Indicadores de Seguimiento de la Sociedad de la Información. España y Comunidades Autónomas. Abril de 2016 (ONTSI)
<http://www.ontsi.red.es/ontsi/es/indicadores/dossieres-de-indicadores/dossier-de-indicadores-de-seguimiento-de-la-sociedad-de-la-i-13>

Informe “Fintech and the evolving landscape: landing points for the industry” (Accenture)
<https://newsroom.accenture.com/news/global-fintech-investment-growth-continues-in-2016-driven-by-europe-and-asia-accenture-study-finds.htm>

Informe “The Pulse of Fintech, 2015 in Review” (KPMG)
<https://home.kpmg.com/xx/en/home/insights/2016/03/the-pulse-of-fintech-q1-2016.html>

Informe “Machine dreams: Making the Most of the Connected Industrial Workforce” (Accenture)
<https://www.accenture.com/us-en/insight-connected-industrial-workforce-research.aspx>

Innovación TI en Europa. Claranet Research Report 2016 (Claranet)
<http://www.claranet.es/noticias/solo-un-11-del-tiempo-se-dedica-a-innovar-en-europa>

Estudio sobre opiniones y expectativas de los ciudadanos sobre el uso y aplicación de la tecnología de la información en el ámbito sanitario (ONTSI)
<http://www.ontsi.red.es/ontsi/es/estudios-informes/los-ciudadanos-ante-la-e-sanidad-opiniones-y-expectativas-de-los-ciudadanos-sobre->

Informe de múltiples sectorial: Telecomunicaciones, Media y Tecnología (EY)
<http://www.ey.com/ES/es/Home/EY-informe-de-multiplos-sectorial-telecomunicaciones-media-y-tecnologia>

2016 World Retail Banking Report (Capgemini y Efma)
<https://www.es.capgemini.com/noticias/los-bancos-luchan-por-mantenerse-frente-al-desafio-de-las-fintech>

Informe “Unlocking Customer Satisfaction: Why Digital Holds the Key for Telcos” (Capgemini Consulting)
<https://www.capgemini.com/news/mobile-operators-investing-in-digital-are-outperforming-their-peers-in-customer-satisfaction>

Informe “BSA Global Cloud Computing Scorecard 2016” (BSA)

<http://ww2.bsa.org/country/News%20and%20Events/News%20Archives/global/04262016-cloudscorecard2016.aspx>

I Informe Economía Colaborativa en América Latina (IE Business School y FOMIN)

<http://www.ie.edu/es/business-school/escuela-negocios/noticias-eventos/noticias/i-informe-economia-colaborativa-en-america-latina-de-ie-business-school-y-fomin/>

Informe “Advancing Digital Societies in Asia” (GSMA)

<http://www.gsma.com/newsroom/press-release/new-gsma-study-tracks-digital-society-progress-asia/>

Informe “Digital Transformation of Industries: Digital Enterprise” (World Economic Forum y Accenture)

<http://reports.weforum.org/digital-transformation-of-industries/wp-content/blogs.dir/94/mp/files/pages/files/digital-enterprise-narrative-final-january-2016.pdf>

Dossier de Indicadores de la Sociedad de la Información por género 2015 (ONTSI)

<http://www.ontsi.red.es/ontsi/es/indicadores/dossieres-de-indicadores/dossier-de-indicadores-de-la-sociedad-de-la-informaci%C3%B3n-por-g-0>

Informe “Walking the digital tightrope” (Fujitsu)

<http://www.fujitsu.com/global/about/resources/publications/digital-tightrope/>

Informe “Workforce Transformation in the Digital Vortex. Reimagining Work for Digital Business Agility” (Global Center for Digital Business)

http://global-center-digital-business-transformation.imd.org/siteassets/dbt_center_workforce_transformation_041916_final.pdf

Si estás interesado en ampliar información en alguno de los perfiles de cooperación debes contactar con:

Jaime Durán

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Research & Development Request

H2020-FTI: City authorities, smart device manufacturers and graphical designers sought for a project on smart cities

Summary

A Spanish technology centre specialized in industrial design and production is preparing a project proposal for H2020 Fast Track to Innovation call targeted to a new ecosystem which can be operated from a smart device to monitor city infrastructures (from the public/private management authorities) and to provide useful information (for the citizens, as potential end-users). The partners sought are city authorities managing infrastructures, smart device manufacturers and graphical designers.

Reference RDES20160419001

Details

Description

Current city infrastructures (hospitals, museums, hotels, airports, metro/train stations, leisure centres, etc.) are not as exploited as recommended. It is due to the lack of available information regarding their facilities. One of the main limitations is the lack of REAL information for disabled people when accessing a metro or train station, when arriving or booking a hotel room, real distance to arrive a from one point of the terminal to another, etc.

SMARTaccess project wants to solve these constraints and others within SMARTCity context. Thus, main objective is the development (for future commercialization) of a complete ecosystem which can be operated from a smart device to monitor city infrastructures (from the Public/Private Management Authorities) and to provide useful information (for the citizens, as potential end-users).

Specific objectives:

1. More attractive design and development of an app and web tool to interact with smart devices.
2. Adapt smart devices app and web needs.
3. Validation of the new ecosystem in real scenarios.
4. Analysis of trans-cutting issues and agreements for future commercialization.

The project will be structured in the following work packages:

- WP1. App development & new design
- WP2. Smart device development
- WP3. Integration and validation in real scenarios
- WP4. Market analysis and dissemination
- WP5. Trans-cutting issues
- WP6. Coordination and project management.

Expected results and outcomes:

- New product to be commercialized
- Agreements among the parties for commercialization.

Framework programme conditions:

- Types of action: Innovation action
- Deadline Model: multiple cut-off (The budget available will be divided equally between each cut-off date).

- Evaluation scheme: one stage.

Timescales:

- Deadline for expressions of interest: May 17th 2016.

- Call deadline: June 1st 2016.

- Project duration: 24 months.

Type and role of the partners:

- End – users / validators: Public/Private Management Authorities that manage city infrastructures (hospital, museums, hotels, airport, metro/train stations, leisure centres, etc.). From EU countries (out of Spain) and profit or non-profit (preference: profit).

- Smart devices manufacturers (tablets / mobiles): From EU countries (out of Spain) and profit or non-profit (preference: profit).

- Graphical designers: From EU countries (out of Spain) and profit or non-profit (preference: profit).

SMEs are encouraged to participate. SMEs first time submitting are also welcome.

Stage of Development

Field tested/evaluated

Keywords

NACE

J.62

Computer programming, consultancy and related activities

Network Contact

Issuing Partner

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Open for EOI : **No**

Partner Sought

Type and Role of Partner Sought

- End – users / validators: Public/Private Management Authorities that manage city infrastructures (hospital, museums, hotels, airport, metro/train stations, leisure centres, etc.). From EU countries (out of Spain) and profit or non-profit (preference: profit).
 - Smart devices manufacturers (tablets / mobiles): From EU countries (out of Spain) and profit or non-profit (preference: profit).
 - Graphical designers: From EU countries (out of Spain) and profit or non-profit (preference: profit).
- SMEs are encouraged to participate. SMEs first time submitting are also welcome.

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Research & Development Request

Horizon 2020 - Fast Track to Innovation Pilot: energy service companies/industries needed to realise and auditing platform for global energy efficiency

Summary

The project coordinator is an Italian joint stock company providing energy efficiency services, energy management, smart metering and optimisation of electricity, gas and water consumption for building and industrial plants. The proposed project intends to develop an automatic energy auditing system, starting from the already implemented ETA (Energy Track & Audit) application, under Horizon 2020 - FTI Pilot call. The partner sought is an ESCO, trade association, company or public authority.

Reference RDIT20160502001

Details

Description

The 2012 Energy Efficiency Directive imposes reaching energy savings target by 2020 in EU, by reducing final energy consumption, through the identification of some management tools, like the Energy Audit that provides an organisation with a description of actual energy system and possible actions to improve efficiency.

The project intends to develop an automatic energy auditing system for building and industrial plants, starting from the already implemented Energy-Track-Audit application. The ideal duration is 24 months.

The current ETA Energy Track & Audit application software is based on a cloud tool to support operators for the carrying out of their energy audits. It presents a simple and intuitive interface that guides the customers in filling out the diagnosis, which is a precise evaluation of energy consumption profiles of buildings and industrial sites, highlighting the opportunities for energy savings, pointing out the energy wasted and the possible improvements.

In the diagnosis reports, there is the detailed identification of projects and ideas for energy efficiency that can be adopted by the site (managing also multi-sites), and to be read and well understood by the operators, as first step to initialise a virtuous circle.

However, there are no automatic software solutions for energy audits, since the algorithms must be developed yet. In fact, all the current available tools are based on the knowledge and experience of a person or group of people entrusted to make out an audit, so their experiences, even professionally conducted, is often sectoral and not carried out with a wide-ranging knowledge.

Therefore, starting from the current stage of development, the project intends to improve the auditing system, becoming dynamic, with an automatic processing of indicators for assessing the energy performance of the site.

These indicators can be then compared with the sectoral benchmarks, offering a list of efficiency projects, applicable to the specific site, with an economic and financial evaluation of each intervention (e.g. simple payback, IRR, NPV, etc.).

The site energy model and the list of measures to improve efficiency will evolve in response to both of the changes introduced by the customer data (energy prices, production levels, etc.),

and in relation to new technologies (BAT) for the efficiency introduced within ETA.

The consortium is already formed by a provider of energy efficiency services (coordinator), that will be responsible of software and algorithms implementation, an ESCo (Energy Service Company), responsible for carrying out concrete actions to improve energy efficiency and an agency for environment and energy management that validate the audit process.

A further partner is to be identified among one of the following categories:

- ESCO (Energy Service COmpany) or facility manager companies to assess the energetic audits;
- Trade Associations to help define EPI (KPI), BAT, methods and then validate them among their own members (mainly industries);
- Industries/Companies to evaluate ETA (Energy Track & Audit) on their own systems;
- Research bodies to provide specialised studies in energy efficiency measures;
- Public Authority to validate the audit.

As for the Programme framework conditions, the call foresees the following expected impacts:

- fast development, commercial take-up and wide deployment of the sustainable innovative solutions (products, processes, services, business models etc.);
- time to initial market take-up no later than 3 years after the beginning of the FTI project;
- enhanced competitiveness and growth of business partners in the consortium, measured in terms of turnover and job creation;
- increased industry participation;
- leveraging more private investment into research and/or innovation;
- addressing (where appropriate) transnational value-chains and EU-wide or global markets.

Deadlines:

EoI : 15.05.2016

Call: 01.06.2016

Project duration: 24M

Advantages and Innovations

The proposed innovation is focused on the development of an automatic auditing system for building and industrial plants, starting from ETA application (Energy Track & Audit).

ETA is already implemented by the project coordinator, but it is in need for new algorithms implementing automated diagnostic functions based on the processing of possible energy efficiency measures, estimating the economic and financial parameters of each action.

The main goal is to make the auditing system no longer static, but dynamic, generating a database containing data for energy audits, like BAT (Best Available Technologies), described in reference documents (BREFs). Each document generally gives information on specific industrial/agricultural sectors in EU, on the techniques and processes used in the sector, current emission and consumption levels, techniques to consider in the determination of BAT, economic valuation techniques (cost-benefit analysis) following the application of BAT and emerging techniques.

Other important information are performance indices of various sectors (Environmental Performance Index - EPI), public and available in the literature, which are compared with the performance index of the site subjected to energy audit.

BAT and EPI databases have to be created automatically or with screens to be filled, constantly updated, so that the evaluation algorithms, parameterised as a function of these update data, can present the best economic and technical solution.

Therefore, if an intervention on energy saving is initially too expensive, with the evolution of certain techniques, it may become feasible at a later date and can be proposed in the audit.

The advantage is to make easier and immediate the energy auditing, with a wide and updated range of techniques and benchmarks. Furthermore, this knowledge base is wider than the human knowledge, less sectoral, and including different cases and solutions that go beyond the experience of a single professional expert.

Stage of Development

Prototype available for demonstration

IPR Status

Other

Keywords

NACE

J.61.9.0	Other telecommunications activities
J.62.0.2	Computer consultancy activities
M.73.1.1	Advertising agencies

Network Contact

Issuing Partner

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The partner sought (neither Italian, nor French) belongs to one of the following categories:

- ESCO (Energy Service COmpany) or facility manager companies to assess the audits;
- Trade Associations to help define EPI (KPI), BAT, methods and then validate them among their own members;
- Industries/Companies to evaluate ETA on their own systems;
- Research bodies specialised in energy efficiency measures;
- Public Authority for the audit validation.

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Research & Development Request

EUREKA or Joint R&D partner sought on remote telehealth

Summary

A Korean SME specializing in telehealth has developed an all-in-one telehealth monitoring gateway which collects, saves and transfers vital sign measurement data from medical sensors to professionals for diagnosis. This technology transfers to healthcare service servers for professionals' analysis and monitoring. The company is looking for R&D partners to participate in bilateral or Eureka projects, especially software and commercialization partner.

Reference RDKR20160504001

Details

Description

Remote telehealth and telemedicine service are increasingly pandemic in a world where care services like hospital, clinics and doctors are in short supply, their costs of keeping healthy are skyrocketing and communities lack access to care.

A Korean SME specializing in telehealth has developed an all-in-one telehealth monitoring gateway. This telehealth system offers users or patients better access to their health record and allows caregivers to remotely monitor the vital measurement data via internet. This all-in-one device aggregate data from the medical sensors of PAN area in encrypted digital format and incorporate it into a digital record that can be transmitted securely. Users, patients, family, caregivers and caregiver's professionals are able to analyze the health record remotely and respond efficiently.

This telehealth gateway provides multi functions to use easily. It is comprised of microphone and HD camera for video telephony and can be used through USB, Bluetooth and Ethernet. Device interface is satisfied with continua CDG and other international standards (e. g. IEEE, CE). Users such as patients, caregivers and family receive encryption of stored and transferred data from common model for security, management or enforcement behavior. This technology provides HL7V3 messaging (Healthcare Level 7 V3 messaging) through medical devices.

Desire partners are the companies in the industrial fields of digital healthcare and health service S/W development, especially in WAN(Wide Area Network) and HRN(Health Record Network) interface.

This company expects to propose to Joint R&D project with German or France. The expected duration to complete both projects is two years. The deadline of 3rd German-Korean call for proposals for joint R&D projects is Jun 7, 2016. EOI deadline is May 15th. Other deadline of Korea-France call for proposals for joint R&D projects is Aug 31, 2016(call 2016-2). Others' EOI receive by July 15th.

Advantages and Innovations

- * Features of telehealth gateway
 - Stand-alone multi-function telehealth gateway
 - User friendly wide touch LCD display
 - Vital sign collecting from sensors, and transferring to servers
 - Personalized health care information/function support
 - Rich and flexible service for a variety of places such as home, hospital and nursing home
 - Video conferencing for remote connecting patients and doctors

- * Wired/wireless network interface and sensor devices connection through Bluetooth and USB(Universal Serial Bus).

- * Satisfied with industrial standard(e.g. IEEE 11073, (Federal Communications Commission), FDA(Food and Drug Administration), EN6060-1-1, CE).

- * Connected to medical sensor such as blood pressure monitor, blood glucose meter, weighing scale, O2 Saturation(SPO2), thermometer, ECC/EKG(ElectroCardiogram) and heart rate.

Stage of Development

Proposal under development

IPR Status

Patent(s) applied for but not yet granted

Keywords

NACE

Q.86.9.0	Other human health activities
Q.87.1.0	Residential nursing care activities
Q.87.9.0	Other residential care activities

Network Contact

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought : Large company / SME
- Specific area of activity of the partner : Digital Healthcare / Health service S/W development
- Task to be performed : Remote health care server/service software development

Type of Partnership Considered

Research cooperation agreement

Research & Development Request

Partners sought for EUROGIA2020 proposal on solar tracking

Summary

A company from Istanbul is looking for battery, inverter and photovoltaic (PV) panel manufacturers and energy management companies for a EUROGIA2020 proposal on PV tracking systems. The project aims to develop the system architecture and define the validation and testing parameters for a PV tracking system. Research cooperation agreements will be made with interested parties. The deadline for the call is 23 May 2016.

Reference RDTR20160415001

Details

Description

The project aims to introduce novel ICT based technologies for PV tracking. The first phase of the project aims at developing a state-of-the-art reference architecture based on the defined system level and functional requirements. Based on this architecture; cloud service infrastructure and hardware infrastructure (PV Panel, PV Inverter and PV battery) will be designed and developed. In parallel, mobile applications as well as reporting and management applications will be defined and implemented. The final phase of the project will be to define a test and validation plan in order to run demonstration and validation activities.

The coordinator is an IT company operating in Istanbul, with considerable experience in security, embedded development, mobile application development and service infrastructures. They are also engaged in international R&D projects, specifically in the ITEA3 Cluster.

EUROGIA2020 is a EUREKA Umbrella focusing on energy technologies. Like all EUREKA Clusters and Umbrellas, projects are submitted in two phases: 1) Project Outline (PO) phase (a document of max. 15 pages) and 2) Full Project Proposal (FPP) phase.

The deadline of the PO phase for the first 2016 Call is 23 May 2016.
The deadline for Eols is 16 May 2016.

Advantages and Innovations

Whole components of current PV systems have different interfaces and different cloud services. This situation causes complexity and inconsistency at integrated systems. The project aims to add cloud services and mobile application to integrated PV systems for raising energy efficiency and using energy at optimum level.

Instead of using existing weather data, the project will develop novel services to present calculated weather forecast data, including mobile applications to control and monitor PV systems.

Stage of Development

Proposal under development

Keywords

NACE

J.62.0.1 Computer programming activities

Network Contact

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company is looking for organizations eligible to apply for EUREKA funding in their respective countries with expertise in battery, inverter and/or PV panel manufacturing, energy management, and solar resource mapping.

The partners can be sole manufacturers, IT companies experienced in energy management or manufacturers with a certain level of IT expertise.

Expertise sought:

- Battery manufacturing
- Inverter manufacturing
- PV panel manufacturing

Partnering Opportunity

- Energy management systems
- Solar resource mapping & forecasting

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

Research & Development Request

AAL- Call 2016: Hungarian health management company is looking for data analysis partners for multi-disciplinary therapeutic management of demented patients project

Summary

A Hungarian health management and life science SME together with its partners from the Netherlands is preparing a proposal for the AAL - Call 2016 - Living well with dementia. The aim of the project is to bring together technologies and services to create ICT based solutions to enable the wellbeing of people with dementia and their communities. The company is looking for partners specialized in medical data analysis and management from for AAL partner countries (except the Netherlands).

Reference RDHU20160415001

Details

Description

The Hungarian SME strives to provide innovative solutions in the healthcare market. It has 17 years' experience of health care management. Their mission is building a knowledge base consisting of relevant market research and factual data which is intended to fill the gap in marketing / sales / market access strategies of the health care companies.

The company is preparing a proposal for AAL (Active and Assisted Living Programme) Call 2016 - Living well with dementia. The aim of the project is to support innovative, transnational and multi-disciplinary collaborative project to bring together technologies and services to create ICT based solutions addressing the aspirations and challenges that will enable the wellbeing of people with dementia and their communities (family, caregivers, neighbourhood, service providers, care system, etc...)

The goal of project is how to extend the length of time of dementia patients to delay disease symptoms and extend their time to stay at home also to improve their and family members' and caretakers' quality of life but at the same time it is cost saving for family and government.

Partners' tasks in the project: to analyse medical/health data gathered during the project from medical doctors, technical equipment, call center etc. to support decision making during the project and future solution.

Hungarian SME: provides medical research (doctors, nurses, patients, caretakers)

Dutch SMEs: provide (sensors, wearables) for location management as well as therapeutic alternatives

Dutch university: technical assessment

Hospitals and/or patients support centers are involved in both countries.

The company seeks for companies with experience in medical data analysis and management, with the role of providing milestones, feedback of ongoing activities, quality of life measures

during the project - physiological monitoring data analysis. Companies from AAL partner states (except from the Netherlands) are awaited.

Deadline of the call: 26 May 2016

Deadline of EOI: 15 May 2016

Advantages and Innovations

Main steps within the project:

- identify patients at different stage of dementia, in different countries, with similar or different background, living with family or care houses representing the prevalence and health process of current practice
 - understand the quality of life of these patients, family, care takers and as part of it understand the daily routine, burdens, therapy etc.
 - develop solutions that supports the wellbeing of the patients and communities, a solution with several element of activities, services and technology depending but not limited to the status of the dementia patient's need, health condition, location, technological knowledge etc.
 - develop a CRM (Customer Relationship Management) hub to support analysis and understanding of all data (including perceptual, factual) to conclude on a patient level as well as overall on dementia patients and relatives
 - identify a cost effective solution to offer to all involved parties by achieving the goal
- Currently such a complex solution is not available, only partial supports.

Stage of Development

Proposal under development

Keywords

NACE

J.62.0.9	Other information technology and computer service activities
J.63.1.1	Data processing, hosting and related activities
M.74.9.0	Other professional, scientific and technical activities n.e.c.

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Open for EOI : **No**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: SME with research competencies
- Specific area of activity of the partner: medical data analysis
- Task to be performed: physiological monitoring data analysis

Type of Partnership Considered

Research cooperation agreement

Technology Offer

Non-photorealistic rendering algorithms for cultural heritage application

Summary

An Italian academic group with specific competencies in the field of non-photorealistic rendering has developed methodologies and algorithms to produce digital mosaics from images taking into account a specific style of the mosaic. The algorithms can be applied in e.g. cultural heritage restoration, computer graphics, etc. Industrial or academic partners are sought for technical cooperation and/or joint further development.

Reference TOIT20160202001

Details

Description

An Italian research team of mathematics/informatics focused on multimedia with specific competencies, among the others, in the field of non-photorealistic rendering (e.g., Digital Mosaic), has developed methodologies and algorithms to produce digital mosaics from images taking into account a specific style of mosaic.

The creation of digital mosaics of artistic quality from images is one of the challenges of the Computer Graphics and is one of the most recent research directions in the field of Non-Photorealistic Rendering.

The digital mosaics are illustrations composed by a collection of small images called "tile". The tiles "tessellate" a source picture in order to reproduce it in a specific "mosaic-like" style (e.g. Vermiculatum). Starting from the same source image it is possible to create different kind of digital mosaics depending on the choice of the tile dataset and the imposed constraints for positioning, deformations, etc.

Currently the potential technology ranges from the digital museum to ceramics production. In particular some of application domains are:

- Ceramics production industry
- Virtual Museum
- Graphics Design
- Computer Graphics
- Web

Partners both in academic or industrial field are sought for research activity and further cooperation aimed to a joint development of the software solution offered.

Advantages and Innovations

The main innovations of this technology are related to the following application fields:

- High quality mosaics with attractive appearance;
- Support for the restoration of ancient mosaics in the field of cultural heritage.

Stage of Development

Available for demonstration

IPR Status

Secret Know-how

Keywords

NACE

J.61.9.0

Other telecommunications activities

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: SMEs, public organisation (such as museum), company and/or technology transfer centre
- Specific area of activity of the partner: ICT, Tourism, Cultural Heritage
- Task to be performed by the partner sought.

Partners sought both in academic or industrial field will co-operate to further develop the offered software solutions.

Type of Partnership Considered

Technical cooperation agreement

Technology Offer

Solution of real time and event (RTe) driven middleware software for sensor cloud business model for smart factory

Summary

A Korean SME has developed a real time and event (RTe) driven middleware software for sensor cloud solution. Its design concept of RTe driven middleware is good to plug and play into cloud computing environment with multi-sensor data fusion applications. User friendly interface function does not need programming for new application implementation The company is looking for a partner available for technical cooperation for joint further development.

Reference TOKR20160325001

Details

Description

The RTe driven middleware solution is able to expand the new business model of SaaS (Software as a Service) application area that is complementary with the multi-sensor data fusion in real time and optimal closed loop control applications including ubiquitous city, safety, defense and other potential areas.

It requires enhanced manufacturing IT strategy such as implementing digitalization of production resources called 4M (Man, Machine, Material & Method) with manufacturing knowledge and intelligence in manufacturing processes for increasing productivity, agility and visibility of the collaborative processes of global manufacturing SMEs.

Through the enhanced IT strategy, global manufacturing SMEs can move to the RTE (Real Time Enterprise) based Ubiquitous Manufacturing (u-Manufacturing) system, which makes it possible to manage global distributed multiple plants by real time access to production resources of 4M (Man, Machine, Material, Method) at anytime, anywhere using wired/wireless Information Communication Technologies, e.g. RFID(Radio-Frequency Identification)/USN(Ubiquitous Sensor Network), mobile, internet, and web services based SOA (Service Oriented Architecture).

The Korean SME specialising in computer system integration(SI) has developed a real time and event (RTe) driven middleware software, and an RTe driven middleware consisting of 5 major functions runs under gateway in which real time device is integrated by wired and wireless sensor based machine to machine(M2M) devices;

1. Point Manager provides common communication platform for various protocol of device controllers
2. Real Time Data Manager provides table que handling for various sensors information
3. Application Template Manager provides web service UI application without user programming
4. DB Wizard Manager provides interoperability service for various enterprises' software.

5. Auto-Configuration provides autonomous reconfigurable functionality for various types of sensors and device controllers during a moving and modifying from sensors and device controllers.

The company focuses on joint development with European partners for localization and applications. A partner interested in technical cooperation for joint further development is welcomed.

Advantages and Innovations

- Design concept of RTe driven middleware is good to plug and play into cloud computing environment with multi-sensor data fusion applications.
- User friendly interface function does not need programming for new application implementation
- Reduced software maintenance cost and development lead time.
- EUREKA Success case (E!4177):

Stage of Development

Already on the market

IPR Status

Patent(s) applied for but not yet granted, Copyright

Keywords

NACE

G.46.5.1	Wholesale of computers, computer peripheral equipment and software
J.58.2	Software publishing

Network Contact

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: Company
- Specific area of activity of the partner: ICT services
- Task to be performed : Technical cooperation with joint further development for localization application

Type of Partnership Considered

Technical cooperation agreement

Technology Offer

A Korean company offering a new concept of project management system to optimize collaboration among team members and across multiple organizations

Summary

A Korean SME active in the field of building information modeling service has developed new software of project management system to optimize collaboration among team members and across multiple organizations. This cloud-based system enables to organize multiple projects in a smart work environment by improving communication and day to day tasks domestically and internationally. The company is seeking a European partner available for a commercial agreement.

Reference TOKR20160406001

Details

Description

The AEC (Architecture, Engineering & Construction) industry runs project-based and any types of projects cannot be done alone.

People involved in a project are different by each project. Also, in the process of the tasks any issues can arise. In case of this, quick and precise decision makings are needed. Besides, depending on the project, various types of process, issues, tasks and information can be created. Therefore, it takes time to document them and load them into a legacy system such as ERP (Enterprise Resource Planning) or PMIS (Project Management Information System). For a loss of a lot of raw data and information, managing a loss becomes an important factor.

As one of the leading companies that provide BIM (Building Information Modelling) service in Korea, this Korean SME has developed a new program to support project collaboration and task management at the field level by minimizing information loss and providing a framework that can capture relevant information as soon as task or issue occurs at the field.

The objective of this system is to support faster and quicker project and task performance. Plus, it can be used to support communication and collaboration for a specific project at anywhere and anytime using personal computers or mobile devices. In addition, SNS and cloud service are integrated to provide all-in-one service to users.

In this system, a project can be broken down into subgroups at multiple levels and they are used to manage tasks. Tasks are listed on the right side of the window with showing progress rates and number of comments and users involved in the task and they can be easily added to the project by typing the name of task at the task box.
Detailed features of the system are shown below.

Project Management

- Project cards on the main dashboard: create or delete groups for projects

- Intuitive project management: keep all projects on the table to instantly notice items that need attention (taking care of multiple projects that need terminable or chronic attention)
- Keep project information in a singular location

Team Management

- Focus on team project: promote a culture of responsibility of the project by clearly assigning roles
- Promote a culture for discussion: encourages free-flowing ideas from unrestricted team-wide chat
- Global collaboration: with not only local members, but members from around the world collaborating with individuals from various backgrounds and cultures

Task Management

- Organize Projects into smaller parts
- Create tasks and set parameters: Tasks can be further organized into folders and subtasks. Email alerts can be set.
- Easily manage your daily tasks

Team-Wide Collaboration

- Comment on tasks
- Stay connected: communicate with your team from anywhere with mobile

Progress Management

- Understand project progress at a glance: check the progress and process of current works
- Stay on schedule: informed with current project progress to stay on top of individual and team-wide schedule

History Records

- Increase sense of responsibility: self-automated system that promotes awareness of the company's vision as well as measuring individual contributions, encouraging a sense of pride and ownership of their work
- Facilitate project hand-offs: easy to direct the new member to the related documents and discussions by providing all the project history and files archived in the project card
- Keep tabs on all of your ideas: refer back to a previously attached file or conversation, quickly search to find what is needed for brainstorming and innovation

The company is open to create a partnership with European entities who are interested in promoting and selling the company's developed system with technical assistance. Further negotiation regarding cooperation types is possible.

Advantages and Innovations

- 1) Business-oriented, project-based SNS(social networking service) applications with various features to support any types of tasks and projects
- 2) Enterprise version is available
- 3) Cross-browsing web and mobile application to be compatible with various operating systems such as Windows, Mac, android and IOS
- 4) Supporting easy SNS login with Facebook or Google account and it can be tied with other cloud services besides its own cloud service.
- 5) Serving multiple languages (Korean, English, Japanese, and Chinese)
- 6) Easy to understand the overall progress at a glance (task/issue managed by folder and group, comments, check list, progress rate, file attachment)
- 7) Smart device and PC(personal computer) support

Stage of Development

Already on the market

IPR Status

Trade Marks

Keywords

NACE

J	Information and communication
J.58.2	Software publishing

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

A potential partner could be supplier and distributor of software program. Partner's client could be company, public research institute and university or any business groups that consists of at least one team. The partner, having a sales partnership with the firm, is expected to sell the product as an exclusive distributor under the commercial contract with technical assistance provided.

Type of Partnership Considered

Commercial agreement with technical assistance

Technology Offer

A Korean research institute is looking for partners for technology transfer with license agreement on high speed close proximity point-to-point communication

Summary

A Korean research institute that specializes in electronics and telecommunication is ready to provide a high-speed close proximity communication technology. With this technology, high speed data transfer and wireless power transmission to a device without a built-in power source are possible. The institute is hoping to meet partners from chips, smartphone module and flash memory manufacturing field for technology transfer with license agreement regarding this technology.

Reference TOKR20160406002

Details

Description

As technology develops, more and more things around us would contain and share information. First it started with the development of mobile, information technology and electronic devices and soon will be followed by big equipment and machines with the rise of internet of things industry. Therefore, demand would increase for a technology that will enable big data transmission in a real time.

The institute's technology has following features:

- . Close proximity communication(works within 10 cm distance only)
- . Peak data rate of 3.5 gigabits per second Wireless power transmission
- . Uses power lower than 100 milliwatts
- . High energy transfer efficiency of 27 picojoule/bit.
- . Energy consumption is 1/5 of institute of electrical and electronics engineers (IEEE) 802. 11 ad technology.
- . 60 gigahertz unlicensed frequency band
- . No interference effect with surrounding wireless devices
- . Used 60 nanometer complementary metal-oxide semiconductor process for modem chip design and technology verification
- . Institute of electrical and electronics engineers(IEEE) 802 15 3e will be confirmed by May 2017

By using this technology, users will have the following advantages:

- . Battery life span is optimized with the use of low electricity circuit design (< 100milliwatt)
- . Energy efficiency is significantly increased (4,000 times

more than near field communication)

- Faster, safer and non-stop data transfer is possible

The institute is open for technology transfer with license agreement with companies from chip, smartphone, flash memory and solid state drives manufacturing industry.

Advantages and Innovations

- Low electricity circuit design which optimizes battery life span of a device (<100 milliwatt (mW))
- It increases energy efficiency 4000 times more than near field communication(NFC)
- Energy consumption is 1/5 of institute of electrical and electronics engineers (IEEE) 802. 11ad technology
- 3.5 gigabits per second wireless communication that is limited to distance within 10 cm which protects personal information. Data transfer speed is 8000 times faster than that of NFC.
- 60 gigahertz(GHz) radio frequency and modem chip design and technology verification with 60 nanometer complementary metal-oxide-semiconductor(CMOS) process
- Can download a movie file of 1.4gb in few seconds using this technology
- Provide user convenience using touch-and-get method which immediately communicates in 1 cm proximity

Stage of Development

Available for demonstration

IPR Status

Patent(s) applied for but not yet granted

Keywords

NACE

M.72

Scientific research and development

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The research institute is looking for a company as a business partner for technology transfer with license agreement in the chip, smartphone module and solid state drives manufacturing industry

Type of Partnership Considered

License agreement

Technology Offer

Device for generating mechanical waves in solid materials

Summary

A team of Romanian researchers has developed a device for generating non-destructive mechanical waves in solid materials. The corresponding manufacturing technology is also available. Industrial, academic and/or research partners are sought for further development and technological transfer, on the basis of research and technical cooperation agreements. The Romanian team from the institute is also offering services agreement.

Reference TORO20160208001

Details

Description

The device for generating mechanical waves in solid materials without destroying the material through the generation of mechanical waves in materials represents the result of the research and sustained work of a Romanian research team.

Until now, there have not been developed any other similar solutions.

The non-destructive device for generating mechanical waves in solid materials is intended for use in applications related to materials' science, non-destructive materials control, defective materials, measurement of the non-destructive thickness of structures and elements of different materials (especially non-metallic with inhomogeneous structure, composites, etc.), by generating mechanical waves in materials, so the partner sought should be active in one of these fields, whether they are industrial partners, or if they are universities or institutes.

The device for generating mechanical waves in solid materials consists of:

- A sandwich-type piezoelectric transmitter transducer that consists of a piezoceramic disk and a metal cylinder type attenuator; the piezoelectric transducer converts electrical signals into mechanical waves that propagate through the studied material, which may be raised by a sensor located in different positions on its surface;
- A generator card on which there was installed an electronic circuit for generating pulses of high voltage, controlled by low voltage pulses; the card is powered by an adjustable stabilized source of high voltage, a low voltage stabilized source, which is protected by a radiofrequency filter for screening device and protection of the stabilized source by stray signals generated at the production of high voltage pulses by the high voltage chopper circuit, controlled from the exterior at the entry of the low voltage pulses;
- A cylindrical metal housing, aimed for protection;
- 2 metal caps, out of which one is attached both to a piezoceramic disk and to an output connector that provides connections to power and ground conductors.

The novelty that this device brings is that it generates high frequency mechanical waves in particular non-metallic materials with heterogeneous structure, composites, etc. The device operates at a maximum operating frequency of 100 kHz, providing increased penetration depth of the mechanical waves in the studied material and avoiding their relaxation in inhomogeneous structure.

As the applications of the device for generating mechanical waves in solid materials are mainly

in the materials science, non-destructive control and material defects, non-destructive thickness measurement of structures and elements of various materials, the Romanian R&D institute is looking for foreign industry, academic, and/or research organisations interested in technology transfer or for research cooperation agreements. The Romanian R&D institute is also offering services agreement.

Advantages and Innovations

The device:

- is robust and useful for non-destructive testing of non-metallic materials, porous, etc.;
- generates high accuracy voltage pulses, which are converted into mechanical waves that are transmitted in the solid material;
- allows easy adjustment of the pulse frequency applied at the entrance in the solid material and high voltage pulse amplitude at its exit, so as to achieve an electro acoustic optimum efficiency. The mechanical waves generated in the studied material are function of the parameters that are initially set, such as: material type (non-metallic, composite), structure and composition, coefficient of attenuation and material thickness.

Stage of Development

Available for demonstration

IPR Status

Patent(s) applied for but not yet granted, Copyright

Keywords

NACE

M.72.1.9

Other research and experimental development on natural sciences and engineering

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The type of the partner sought: industry, academic and/or research organisation. These partners should be active in the field of materials' science, non-destructive materials control, defective materials, measurement of the non-destructive thickness of structures.

The task to be performed by the industrial partner sought: further development in joint cooperation with academia and the research team as well as technological transfer, with specific technological services received from the Romanian research team.

The task to be performed by the academic and/or research organization: further development of the device, together with the Romanian research team and industrial partner, within the research cooperation agreement.

Type and Size of Partner Sought

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

Type of Partnership Considered

Services agreement
Technical cooperation agreement
Research cooperation agreement

Technology Offer

Method and equipment for testing road longitudinal profiles in dynamic regime

Summary

A Romanian research institute has developed a method and an equipment for testing, in dynamic regime, the longitudinal profile of the road and highway pavements. The proposed system will be used for the determination of the longitudinal uniformity. The targeted partners are universities or research institutes for establishing research and technical cooperation agreements or SME's from the same field of activity, for manufacturing agreements.

Reference TORO20160324001

Details

Description

A Romanian research institute has developed a method and equipment for testing the road longitudinal profiles in dynamic regime.

The proposed system will be used for the determination of the longitudinal uniformity-one of the functional characteristics of the road structures involved in the safety of the circulation.

This method consists of: the displacement on the tested pavement of a lab vehicle (VL) on whose lateral side a couple of two laser sources (SL I, SL II) is mounted; a continuous emission type and a video camera (VC) placed in line with the laser sources exactly at the middle of the distance (A) between these sources. Distance (A) is equal with the sampling distance imposed by the evaluation norms of the road longitudinal profile uniformity. The line scan video camera (VC) must be parallel with the laser beams (FL I) and (FL II), which are perpendicularly oriented to the pavement surface (PL).

The start of a sequence for the measurements simultaneously carried out by the two above mentioned sensors is achieved at the external command delivered by a vehicle displacement transducer every time when this vehicle has moved along distance (A).

The processing of the acquired data must begin with the extraction from each image received by the video camera with line type CMOS (Complementary Metal-Oxide Semiconductor) sensor, of the current ordinate that corresponds to the pixel that has received the laser source image reflected by the pavement. This thing can be achieved through a software application aimed for detecting the maximum illuminated pixel from the respective line. The program is also taking into account the wavelengths of the used laser beam (FL).

On the basis of the data acquired in this mode it is possible to calculate both the variation of the road profile elevation and the lab vehicle own vertical displacement, in the frame of every measurement sequence.

The Romanian institute is considering partnerships such as manufacturing agreements with SMEs willing to introduce the method and equipment for testing road longitudinal profiles in dynamic regime in the manufacturing process developed; research and technical cooperation with universities, research institutes and SMEs, in order to develop new applications or for testing this method in laboratory and in real conditions.

Advantages and Innovations

The equipment has a relative simple construction. One of the innovations of this proposed equipment is that it assures the possibility to calculate the IRI (International Roughness Index), whose value is totally independent from the own vertical displacements of the lab vehicle, on the basis of the relative ordinates y_i , which are constituting, each one, the elevation variation of the road profile in the frame of a measurement sequence.

One of the advantages that this equipment brings, compared to other technologies, is that due to the fact that the line type video camera is functioning as a rule with high scanning frequencies, the equipment in conformity with the invention has the possibility to effectuate the acquiring of the road longitudinal profile also in the conditions in which the lab vehicle is displacing with the admitted speed on the respective road.

Stage of Development

Prototype available for demonstration

IPR Status

Patent(s) applied for but not yet granted

Keywords

NACE

M.72.1.9

Other research and experimental development on natural sciences and engineering

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The research institute is looking for partner(s) such as:

- universities and research institutes, in order to establish research and technical cooperation agreements for a) developing new applications and b) testing this method in laboratory and in real conditions;
- SMEs, for manufacturing agreements (for introducing the method and equipment for testing the road longitudinal profiles in dynamic regime in the manufacturing process).

Type and Size of Partner Sought

SME 11-50, University, R&D Institution

Type of Partnership Considered

Manufacturing agreement
Technical cooperation agreement
Research cooperation agreement

Technology Offer

Integrated microprocessor system for diagnosis of material processing

Summary

A Ukrainian University offers microprocessor systems of integrated diagnostics of material mechanical processing. High sensitivity, significant range of possible utilization, competitive price and experience of involved personnel are the advantages of this proposal. The University is looking for partners interested in commercial agreement with technical assistance or in research cooperation in field of the diagnostic of mechanical processing of materials.

Reference TOUA20160404001

Details

Description

The system provides direct control of processing quality and extent of critical technical condition of cutting tool while processing. The input data for diagnosis is a trend of sound that accompanies the process of cutting. Sound pressure is measured by a microphone, which is installed on incisor holder. Based on these data actual life of the cutting tool is determined and values of condition are calculated, that allow to assess quantitatively of quality of processing level of detail and critical technical condition of the instrument.

Using of complex provides:

- control of collecting input information required for its further analysis;
- rapid processing of registered information panels;
- evaluation of quality of processing details;
- forecast of cutting tool status;
- determination of optimum cutting conditions that prevent the destruction of instruments and shortage of details;
- displaying the diagnosing results on screen of microprocessor system and archiving it in a text file.

The result of offered microprocessor system application is displayed on the screen as color strips. Color of strips is changing from blue to red to measure deterioration of processing quality and instrument condition. There is also given time trend of sound that accompanies the cutting process, schedule of predictive model and profile of roughness.

The effectiveness of diagnostic system was tested both in laboratory and in production conditions.

The University is interested in establishing of long-term cooperation with potential partners in the form of research cooperation for development of microprocessor systems of integrated diagnostics and / or commercial agreement with technical assistance for development and / or using the systems for diagnosis of material processing.

The University during the last 20 years of research of processes automation accumulated the sufficient experience in development and implementation of new high-performance systems for different kind of industry operations analyzing.

Advantages and Innovations

The advantages of complex in comparison with analogues are universality, portability, wide scope of potential use, significant potential for improvement.

The complex can be used to diagnose of technical condition and forecast of residual resource of various industrial equipment: steam and gas turbines of power plants, hydraulic turbines of hydro electric plants, variety of pumps and compressors used including at nuclear power plants, submersible pumps in oil fields and gas compressor units with various types of drive units.

Stage of Development

Prototype available for demonstration

IPR Status

Patents granted

Keywords

NACE

C.25.1.1 Manufacture of metal structures and parts of structures

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: company, institution or any business associated with machining, turning, milling, drilling and other types of cutting processing of various materials, including metals, plastics, wood and paper. Primarily in oil and gas industry that requires equipment for complex preparation of oil and gas.

Area of activity: mechanical engineering and other industries associated with machining, turning, milling, drilling and other types of cutting processing of various materials, including metals, plastics, wood and paper.

Partner role: research cooperation in complex preparation of oil and gas equipment, development and using of microprocessor systems to improve of technological process of mechanical processing of materials.

Type and Size of Partner Sought

University, R&D Institution, SME 51-250

Type of Partnership Considered

Commercial agreement with technical assistance

Research cooperation agreement

Technology Offer

Innovative plant technology for water disinfection based on sodium hypochlorite

Summary

A Serbian company developed an innovative water disinfection plants with dosing systems that are producing sodium hypochlorite solution on place of consumption from common salt. Advantages over existing solutions are elimination of additional transportation, storage and costs. The company seeks industrial partners from Italy, Germany, Bulgaria, Montenegro and Macedonia interested in commercial agreement with technical assistance, licensing and/or joint venture agreement.

Reference TORS20160407001

Details

Description

The innovative company from Serbia, founded in 1989, developed innovative production of water disinfection plants and automatic dosing systems. The first plant was produced in 1996 and since then it has been constantly improved. The company has 27 years of existence in the market and it has 100 plants for water disinfection installed on domestic market. The company is a member of the Vojvodina Metal Cluster.

The company is engaged in engineering, installation and maintenance of on-site automatic systems for disinfection of water. It also provides trainings for workers and remote system monitoring.

The innovative device is made for electrolytic production of chlorine in the form of sodium hypochlorite solution. This innovative technology is made to be used on site in absolutely safe way. Since no gaseous chlorine is present, water chlorination is absolutely safe due to system design. For production of sodium hypochlorite solution it is needed only common salt (instead of industrial salt tablets), softened water and electrical energy. The innovative device for the production of diluted solutions of sodium hypochlorite (the concentration of ~ 1% of equivalent chlorine) at the place of consumption fulfills all requirements of safe devices in accordance with national and international legal regulations from the area of disinfection of water and environmental protection. This innovative plant in addition to standard part for production of sodium hypochlorite also has automatic dosing system, backup system and remote monitoring. Monitoring system allows company to communicate with all the facilities that have been installed and provides information about their work. In case of failure, the backup system automatically turns on and works in order not to compromise the quality of the water until the problem is resolved.

The company is interested in several types of cooperation with partners from Italy, Germany, Bulgaria, Montenegro, and Macedonia:

Commercial agreement with technical assistance – the company is interested in finding partners who are willing to buy this innovative technology. The company will provide all necessary services concerning installation, maintenance and training the client's workers.

Joint venture agreement - this form was chosen for finding partners for joint appearance in the new market. It is possible to joint cooperation where the company would provide its innovative technology / plants for water disinfection, and a partner would be most expected to be familiar

with the market and help in finding new clients.

License agreement - the company offers license for its patented innovative technology in return for a fee. The company will provide details of the production, installation, assembly and servicing of the innovative water disinfection plants.

Advantages and Innovations

The novelty in this innovative technology is optimization of plant's design and process parameters which leads to optimize consumption of salt and electrical energy while maximizing the active substance (sodium hypochlorite). Conversion factor is 3:1 (3 kg salt : 1 kg sodium hypochlorite). In this way the innovative technology achieves efficiency and competitive prices.

Advantages are:

- Transportation: sodium hypochlorite produced in company's plant does not need transportation because production is made at the place of consumption (in comparison with existing technologies, such as transportation of gaseous chlorine, which is very dangerous, requires special training of drivers, and the vehicle for the transportation must be escorted, or transportation of commercial sodium hypochlorate, which is safer but still requires specific transport tank with certain characteristics)
- Storage: In this innovative production of sodium hypochlorite it is necessary to store a common salt. The necessary conditions are dry storage place for bags of salt (in comparison with existing technologies, such as storage of gaseous chlorine and commercial sodium hypochlorite, which require special storage conditions, such as specific temperature, tank materials, the intensity of light etc.)
- Costs: annual costs for on site production of sodium hypochlorite (for 2.488.320.000,00 l/year of water flow rate):
1.044,98 € + maintenance (in comparison with existing technologies, such gaseous chlorine disinfection annual costs (for 2.488.320.000,00 l/year of water flow rate):
1.391,04 € + transportation + training + storage + maintenance, or annual costs for commercial sodium hypochlorite disinfection (for 2.488.320.000,00 l/year of water flow rate):
4.379,40 € + transportation + storage + maintenance.

Stage of Development

Already on the market

IPR Status

Patents granted

Keywords

NACE

C.28.9.9

Manufacture of other special-purpose machinery n.e.c.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: Industry

Activity: the company in the field of water disinfection, swimming pools disinfection, water disinfection of food and drink industry, and other companies who have a need for water disinfection of the use of sodium hypochlorite.

Role: in commercial agreement with technical assistance, it is expected from the partner to buy the innovative product.

In joint Venture Agreement, it is expected from the partner to be familiar with the market and be able to look for project that requires joint apparent on the certain project where water disinfection or sodium hypochlorite solution is needed. It is also needed to find customers for company's innovative technology.

In license agreement, it is expected from the partner to operate according to company's standards and to expand the product to new markets, with obligation to pay compensation.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement

Commercial agreement with technical assistance

Joint venture agreement

Technology Offer

Internet solution for call centres.

Summary

A small Russian innovation company has developed Internet solution for call centres and marketing companies. The solution aims to increase call centres and marketing research efficiency. The Russian company offers its solution to call centres, marketing companies. Commercial agreement with technical engagement is sought.

Reference TORU20160404001

Details

Description

The Russian small innovative company has developed Internet solution for call centre, marketing and social research optimization. For these tasks require multifunctional solutions that could provide with both technical input and easy interface. There are few solutions of the same task on Russian market, so the solution offered by the Russian company has to be both multifunctional and easy to use to meet competition. Survey system, telephone exchange with auto dialing and access to any Internet telephony service provider are essentials of the solution. The software is done in the format of Internet browser, Web Real-Time Communication sound transmission.

The product enables to do multiple tasks, including:

- Operator's work control means auto detection of falsified surveys; online wiretapping, and survey system with auto recalculation;
 - Work optimization with contractors which means total control on projects. All reports and records are available online. Creation of resultative surveys database;
 - Remote access for operator: operator gets all work statistics in personal account. Also, operator gets access to supervisor comments when checking up accounts. Rating system.
- A Russian company is interested in commercial agreement with technical assistance. The company offers deployment of its solution for companies rendering call centre services and marketing companies wishing to increase call centres performance and marketing/sociological researches quality respectively.

Advantages and Innovations

The solution is based on computer-assisted telephone interviewing (CATI) which combines Internet telephony with survey system.

Advantages of the solution:

- The software is done in the format of Internet browser which takes no use of corporate telephony server;
- Online operator's work control is accessible which makes it easy to estimate work productivity without any other additional options;
- Optimization of work with contractors (database creation of resultative surveys) with search and sort functions minimizes time for information processing.

Stage of Development

Project already started

IPR Status

Other

Keywords

NACE

J.62.0.9

Other information technology and computer service activities

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: companies offering call centre services (outsourcing ones included), marketing companies

Field of activity: rendering of call centre services, marketing/sociological researches.

Role: companies interested in the solution deployment to increase call centres performance and marketing/sociological researches quality.

Type and Size of Partner Sought

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

Type of Partnership Considered

Technical cooperation agreement

Technology Offer

A Polish company has developed a telemedical solution for fetal health monitoring, seeks international partners for technical cooperation or a joint venture agreement.

Summary

A Polish company is active in the field of telemedicine and digital health. The company has developed the world's first comprehensive telemedical solution for fetal health monitoring. The device will be available for sale in the second half 2016, starting from domestic market and then expanding internationally. The company seeks potential partners for technical cooperation and joint venture agreements.

Reference TOPL20160315001

Details

Description

The company is a Polish innovative technology SME active in the field of telemedicine and digital health – dynamically developing segments of the medical market.

The company has developed the world's first comprehensive telemedical solution for fetal health monitoring.

It is a mobile device for safe and reliable monitoring of the fetal and maternal heart rate, and recording uterine contractions.

Single measurement takes approximately 30 minutes. Collected data is transmitted via a wireless network to the teleCTG Monitoring Center, supported by a qualified medical staff. Therefore, the solution is a combination of a CTG (cardiotocography) medical device with an innovative telemedical service.

The device will be available for sale for health care professionals in 2016, starting from domestic market and then expanding internationally.

The company seeks international joint venture partners interested in launching the product and creating local telecenters of monitoring in different countries.

Also the company seeks partners interested in technical cooperation regarding the adaptation of the product to local requirements.

Advantages and Innovations

This compact and ergonomic device, carried on the body of the pregnant woman, can be connected at any place and at any time (where data transfer is available).

This will allow much more complete monitoring of pregnant women and enable medical staff, located in a teleCTG Monitoring Centre, a fully comprehensive approach to the patient.

The obtained results are sent to a specialist at the teleCTG Center for Monitoring, where they are constantly analyzed. In a short time, patient receives feedback on the status of health of her baby.

The software allows the segregation of records in order from the most alarming ones that require urgent checking.

Stage of Development

Available for demonstration

IPR Status

Patent(s) applied for but not yet granted

Keywords

NACE

Q.86

Human health activities

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The partner should be a company active in the field of telemedicine with a good contact network to local healthcare professionals.

Ideally the partner should have experience in the commercialization of telemedicine healthcare devices.

The partner will be responsible for product launch and adaptation to his local market.

Type and Size of Partner Sought

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

Type of Partnership Considered

Technical cooperation agreement
Joint venture agreement

Technology Offer

German Fabless Design House Offers Radiation-Hardened Microelectronics and Smart Actuators

Summary

German company offers innovative design of high-reliable parts (including integrated circuits and smart mechanisms) using Shape Memory Alloys for aerospace, medical, automotive or industrial application. The company looks for partners from research and industry requiring these capabilities in R&D or commercialization projects, e.g. in novel aerospace application (airborne, satellite). Cooperation can include commercial agreement with technical assistance or research and technical cooperation.

Reference TODE20151209002

Details

Description

The German fabless design house is part of a Spanish holding corporation with more than 10 years experience in the design and development of high-reliable electronic and electro-mechanic parts, mainly for space applications. The company is specialized in delivering technological solutions to partners requiring custom microelectronics or mechanisms design for development projects or R&D activities.

The company offers electronic, microelectronic and electro-mechanic systems and components, including smart actuators and mechanisms using Shape Memory Alloys (SMA), integrated circuits, custom sensing systems and robotic parts. The resulting products and technologies are suitable for different markets and sectors demanding innovation, quality, high performance and reliability, such as aerospace, defence & security, medical industries and others.

The company's own radiation-hardened libraries and IP cores are suitable for a wide range of working frequencies, high-voltage applications and can be used for the development of both custom and of-the-shelf rad-hard integrated circuits. In mechanisms, the company is expert in the development of smart mechanisms using SMA, including linear and rotary actuators, valves, couplings, hinges and hold-down and release mechanisms.

The technology on offer includes the company's own proprietary SMA material suitable for applications at extended temperature ranging from -150 up to +150 °C. The company also has available a product portfolio of space-qualified off-the-shelf actuators using SMA.

Partners sought include research organisations and research-/development-intensive companies with a demand for specialized SMA-based integrated circuits and smart mechanisms for their development projects.

The type of partnership considered could reach from a commercial agreement including technical assistance (for companies), research cooperation agreements (including joint R&D-projects with private or public organisations, e.g. for novel space applications) or a technical

cooperation agreements, which would include testing of the technology in specialized surroundings.

Advantages and Innovations

Microelectronics allow miniaturization and integration of electronic systems, thus reducing mass, power consumption and improving general performance. Radiation-hardened microelectronics by design assures the reliability and proper functionality of electronic equipment in harsh environments and applications, such as space, nuclear, aviation or medical.

Shape Memory Alloys (SMA) are smart materials that change their shape when heated and recover the original shape when cooled down. Using SMA in mechanisms turns into light, low-power, high-reliable devices, immune to radiation and electromagnetic fields. Apart from the memory effect, SMAs have also super-elastic (or pseudo-elastic) properties. SMA-based actuators and mechanisms can replace electrical motors, pneumatic or hydraulic actuators, becoming a more simple, integrated and reliable solution. The company has already successfully developed several innovative custom solutions using SMA for automotive, medical and industrial applications.

Stage of Development

Already on the market

IPR Status

Copyright

Keywords

NACE

M.71.1.2	Engineering activities and related technical consultancy
M.71.2.0	Technical testing and analysis
M.72.1.9	Other research and experimental development on natural sciences and engineering
M.74.1.0	Specialised design activities
M.74.9.0	Other professional, scientific and technical activities n.e.c.

Network Contact

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The firm is looking for companies and research organisations requiring custom design capabilities in microelectronics and/or mechanisms. Potential partners demand high-reliable, light-weight and low-power mechanisms based on Shape Memory Alloys.

The role of potential partners can vary between end-using the delivered technology for their own development or production purposes to being cooperation partner in a joint development project, e.g. in order to develop and test novel applications for the offered technology in aerospace surroundings.

Cooperation can generally include commercial activity in order to bring a certain application to the market (commercial agreement). This agreement can include technical assistance.

Also, research or technical cooperation agreements for joint development projects are of interest for the company. Here, the role of the partner would include testing the technology in different surroundings for specialised purposes, on which basis the company can improve the technology.

Type of Partnership Considered

- Commercial agreement with technical assistance
- Technical cooperation agreement
- Research cooperation agreement

Technology Offer

Mobile immersive experience video technology for online marketing

Summary

Spanish start-up has developed a technology to create immersive mobile videos in which users can feel the action inside them through the vibration of the device (haptic technology). The users can watch and feel the videos without the need of downloading an APP so it is especially suitable for marketing purposes in order to create an immersive experience that increases the engagement of clients with brands. The company is looking for commercial agreements with technical assistance.

Reference TOES20160407004

Details

Description

The haptic technology is based on the communication through the touch sense, for example the vibration of a smartphone when using the keypad. Several devices such as gamepads, smartphones and “wearables” can include this technology.

This technology has recently been applied to videos as a part of mobile marketing campaigns in order to improve the targeted audience experience, that can feel the video action and sounds thorough vibration. The main issue that until now has slow down this application of the haptic technology is that the user needs to download a mobile app so it stops many users from enjoying the video as intended to be.

In this context, the Spanish start-up has developed a software technology that allows to create haptic videos (mobile videos, ads, movies, etc.) without the need of downloading any app so anyone can enjoy it from any conventional device such as smartphone or tablet, feeling the video action (motion, jumps, a rainy day, a storm, an engine starting up, explosions, shot guns, etc.).

This technology, applied to media content, is especially suitable for marketing purposes. It allows to:

- Record and play real measured motion videos in sports and post it to social networks so the followers can feel what the athlete is feeling.
- Create mobile video product marketing campaigns in which users can feel the product features.
- Create interactive animations or WebApps in which mobile phone/tablet generates haptic effects according to user actions.
- Create broadcasting immersive videos so several people can feel, simultaneously, what players feel when they practice a sport, dance, or any other activity.

-Create music video clips in which users can feel the beat, the rhythm, instruments, ambience in a concert, etc.

Currently this technology can be used in devices with Android operative system installed.

The company is looking for international partners within the field of mobile marketing and multimedia content in order to reach commercial agreements with technical assistance.

Advantages and Innovations

- Videos can be played using any web browser without the need of installing apps or plugins.
- Videos can be shared and played directly in social networks, web sites and email campaigns.
- Any content from any web video platform (Youtube, Facebook, etc.) can be converted to this technology without modifying the original content.

Stage of Development

Already on the market

IPR Status

Patent(s) applied for but not yet granted

Keywords

NACE

J.59.1	Motion picture, video and television programme activities
M.73	Advertising and market research

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The Spanish startup is looking for international partners in the field of mobile marketing and multimedia content such as marketing agencies, video content providers and creators, online TV channels, action games companies, action movies producers, music video clips producers, etc. interested in creating a new way of sharing their mobile video content online and increase the engagement of fans and users.

The role of the partner sought is to commercialise this technology within their region under commercial agreements with technical assistance.

Type of Partnership Considered

Commercial agreement with technical assistance

Technology Offer

Algorithms to produce digital mosaics from images

Summary

An Italian academic research laboratory has developed a methodology and algorithms in the field of non-photorealistic rendering in order to produce digital mosaics from images taking into account a specific style of mosaic. Computer graphics is one of the main application field. SME partners are sought for technical cooperation.

Reference TOIT20151201001

Details

Description

The Italian mathematics/informatics team focused on multimedia research with specific competencies, including non-photorealistic rendering (e.g., Digital Mosaic), has developed methodologies and algorithms to produce digital mosaics from images taking into account a specific style of mosaic.

The creation of digital mosaics of artistic quality from images is one of the challenges in Computer Graphics and is one of the most recent research roads in the field of Non-Photorealistic Rendering.

Digital mosaics are illustrations composed by a collection of small images called "tile". The tiles "tessellate" a source picture in order to reproduce it in a specific "mosaic-like" style (e.g. Vermiculatum).

Starting from the same source image it is possible to create different kind of digital mosaics depending on the choice of the tile dataset and the imposed constraints for positioning, deformation, etc.

In order to further development the research activity, academic or industrial partners are sought for technical cooperation aimed to a joint applied development for the market.

Advantages and Innovations

The main innovation of the is connected to possibility to exploit the technology in different kind of application such as:

- restoration of ancient mosaics (cultural heritage);
- digital museum;
- ceramics production
- others

Stage of Development

Field tested/evaluated

IPR Status

Secret Know-how

Keywords

NACE

P.85.5.9

Other education n.e.c.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Company or applied research centre sought for technical cooperation.

Partner sought: organization working in the fields of ICT, digital museum, ceramics production, others.

Task requested: digital mosaics of artistic quality from images.

Type of Partnership Considered

Technical cooperation agreement

Technology Offer

Emergency lowering device for vehicle door windows

Summary

An SME in north Sweden in the field of technical innovation has developed an emergency lowering device for vehicle door windows. The advantage of this device is that it makes it possible to open side windows fast from inside without electricity. Partner sought is car - vehicle manufacturer. The SME has a Swedish patent that they would like to sell in this offer through a commercial agreement with technical assistance.

Reference TOSE20160311001

Details

Description

The SME is a limited company in north Sweden in the field of innovation. They have their expertise in technical solutions connected to road transport by motor vehicles.

Today's cars and trucks are fitted with side windows that open and close with electrical window lifters. This means the windows can't be operated from inside when the vehicle's electrical system is blacked out, after an accident, a fire or if the vehicle has ended up in water. The occupants are thus not able to exit the vehicle if the doors are blocked, damaged or water are pressing on the doors. This technology solves that problem and opens up an emergency escape route for the persons in the vehicle.

There are no existing and implemented solutions of this problem today, except for an emergency hammer that, to be useful, must be within reach in the coupe after the accident, which is seldom the case.

The technology/patent consists of an emergency handle integrated in the door fascia inside. This handle is connected to a wire. When pulling the handle the window is simultaneously released and pulled down with manual force by the wire that is mounted underneath in the window frame.

The background to this offer concerning a commercial agreement with technical assistance is that the SME now would like to sell the patent on this technology. The seller will be standby for assistance to the buyer until the technology is implemented through video/physical meetings and of course spoken/written support. The support is offered during approximately the next 2-3 years.

Advantages and Innovations

The advantage of this invention is that the vehicle can be evacuated fast after an accident, without the need for electricity. It gives the car manufacturer or subcontractor an edge in the field of safety when addressing car owners/users. This invention could also save a substantially number of lives every year all over the world. In some cases windows could be crashed. Today a hammer often is required, which is rarely present within reach at the scene after an accident. This technical solution is also simple and cost efficient to manufacture.

Stage of Development

Under development/lab tested

IPR Status

Patents granted

Keywords

NACE

H.49.3.9

Other passenger land transport n.e.c.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Car - vehicle manufacturer or subcontractor to the automotive sector that would like to buy the patent through a commercial agreement with technical assistance.

Production of cars or parts to automotive sector.

The partner is expected to implement the invention into production

Type and Size of Partner Sought

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

Type of Partnership Considered

Commercial agreement with technical assistance

Technology Offer

Innovative portable wireless platform with smart sensors for the processing and monitoring of traffic trend and environmental information, designed and tested by a Spanish University

Summary

A Spanish research group has developed a system based on wireless sensor networks, designed to characterize urban traffic through the calculation of the origin-destination matrix in real time by using bluetooth identification. Additional sensors are available, which are integrated in different types of nodes for environmental parameters monitoring. They offer the system, training and technical consultancy, through license, research cooperation or commercial agreement with technical assistance.

Reference TOES20160413002

Details

Description

A research group from a spanish university, focused in the field of automation systems and mechatronics engineering, has developed an innovative solution for the urban traffic characterization and monitoring in real time.

Sustainable mobility requires a better management of the available infrastructure resources. To achieve this goal, it is necessary to obtain accurate data about road usage, from urban areas in particular. Although a variety of sensor alternates for urban traffic exist, they usually require extensive investments in the form of construction works for installation, processing means, etc.

In order to characterize urban traffic parameters, vehicle counting and identification techniques are the main key to obtain information about origins and destination of trips in the area under study. Thanks to the system developed, the data allow the calculation of an origin and destination matrix in real time, providing the city managers with a powerful tool to adapt traffic planning to real demands.

The main goal of the solution consists in characterizing the urban traffic in the area of interest. This means counting vehicles but also identifying the routes distribution, which is described by a mathematical tool (origin-destination matrix). The vehicle identification is performed by detecting devices with bluetooth. The calculation of this matrix has been implemented as an algorithm in the control system. Besides, sensors for noise level, light intensity, pressure, temperature, humidity, airborne dust and gases concentrations are available. These sensors contribute to complement the information available to traffic managers, although they are not intended, at the current state, to enhance traffic characterization. The processed data are always accessible in real time.

Experiments in real conditions have been performed, both for separate sensors (bluetooth, ultrasound and laser), and for the whole system, showing the feasibility of this approach.

The Spanish research group expect, that the partner implement the system (with their technical assistance for the required adaptations) or establish a way to commercialize it. For this matter, they seek license agreements and commercial agreements with technical cooperation. They also consider the possibility to further develop the system with the collaboration of other research groups working on projects related to urban traffic management, through research cooperation agreement.

Advantages and Innovations

- The most remarkable features of the solution are its easy deployment, low-cost, flexibility of use and energy autonomy. The system nodes can be installed on street furniture: street lights, traffic signs..., so that construction works are not required due to its non-intrusive nature.
- The platform is composed of smart-sensor wireless nodes whose cost is reduced in comparison with the cost of other types of sensors such as radar or cameras. Moreover, these types of sensors also need a high computational analysis stage to extract the useful data, increasing the required investment.
- The flexibility of the nodes and their non-invasive nature allows an easy adaptation of the deployment to the shape of the area of interest.
- Some remarkable nodes 'features':
 - > The bluetooth node can be described as a non-intrusive, vehicle-ID smart sensor.
 - > The ultrasound node acts as a non-intrusive, vehicle counting, smart sensor.
 - > The laser node acts as non-intrusive and image smart sensor. This node has the main function of counting the vehicles passing through a certain roadway and, additionally, is capable of identifying on which lane of the studied roadway the counted vehicle is riding.
 - > Other sensors are available. Their goal is not to contribute to traffic characterization, but to obtain additional information usually relevant to the same traffic managers interested in traffic trend monitoring (e.g. gas emission, pollution level...)

Stage of Development

Available for demonstration

IPR Status

Other

Keywords

NACE

- | | |
|----------|---|
| M.71.1 | Architectural and engineering activities and related technical consultancy |
| M.72.1.9 | Other research and experimental development on natural sciences and engineering |

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Issuing Partner

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

-Type of partner sought: companies, universities or research centers.

-Field of activity: actors in traffic management and road management, as well as research groups working on projects related to urban traffic management.

-Task to be performed: the spanish research group offers the system (license), training and technical consultancy.

The partner should use or commercialize the system by making some testing and modifications, or co-work for its improvement.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement

Commercial agreement with technical assistance

Research cooperation agreement

Technology Offer

A full-field X-ray camera for materials characterization in multidisciplinary applications

Summary

An Italian research centre has developed a novel full-field X-ray camera for performing the space-resolved micro-XRF (micro X-ray fluorescence) analysis with high energy and high spatial resolution. The non-destructive X-ray fluorescence micro-analysis has been utilized in a number of scientific disciplines such as: medical science, material science, cultural heritage, environmental science, semiconductors. A partnership is sought for technical cooperation agreement.

Reference TOIT20160122002

Details

Description

Generally micro-XRF measurements are performed by scanning the sample surface with X-ray beam of small dimensions (up to the micrometric scale). In the Italian research centre a fast full-field X-ray camera technology has been developed for performing space-resolved micro-XRF (X-ray Fluorescence) analysis with high energy and high spatial resolution. Recently the technology has been successfully used in different multi-disciplinary applications.

The FF-XRF (Full-Field X-ray Fluorescence) consists of a 70 μm pinhole-collimator coupled to a 13.3 square millimeters CCD (Charge Coupled Device) detector composed of 1024x1024 pixels with a lateral size of 13 μm . The X-ray fluorescence is induced on the samples by using an ancillary X-ray source consisting of a medium-power X-ray tube operating at 40 kV and 1.5 mA and emitting a beam with a large divergence. The pinhole camera was designed in a compact set-up and it can be used in-situ. Possibility of performing the 2D chemical imaging to investigate materials (inorganic and organics chemical species) is one of the leading applications.

The Italian research centre is looking for partners for technical cooperation agreement in order to exploit the technology in the following potential application domains:

- cultural heritage (knowledge, restoration and conservation)
- medical science
- material science
- environmental science
- semiconductors.

Advantages and Innovations

The main advantages of the new camera FF-XRF (Full-Field X-ray Fluorescence) are:

- faster measurements compared to standard technique which requires longer scan time of the sample surface (up to 1-2 days);
- measurements time limited to 1 hour for small samples (of 4x4 square millimeters) and to 4-5 hours for large samples (50x50 square millimeters);
- measurements can be performed in situ.

Stage of Development

Field tested/evaluated

IPR Status

Secret Know-how

Keywords

NACE

S.96.0.9

Other personal service activities n.e.c.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The partner sought is a company which should exploit the technology for adapting the non-destructive technique to material investigation and micro-analysis applications.

Type and Size of Partner Sought

SME <10

Type of Partnership Considered

Technical cooperation agreement

Technology Offer

Technology for radioactive waste monitoring, in storage sites and in the environment

Summary

An Italian research centre has developed a system capable of real time monitoring of radwaste on waste drum basis. The radiation sensors proposed are simple, cheap, robust, in need of a company available for marketing either the single sensor units or the whole system. In Europe there is a large amount of radwaste in temporary storage sites, with the periodic addition of newly produced waste. A partnership is sought for technical cooperation agreement.

Reference TOIT20151201003

Details

Description

All over Europe there is a large amount of radwaste in temporary storage sites, with the periodic addition of newly produced waste. In Italy there are currently about 27000 m³ of radwaste. The sensors system proposed can be used for low-cost special purpose environmental monitoring (for instance in order to check whether radioactive material is being smuggled into ordinary waste dumps).

The Italian research centre, operating in the fields of Nuclear Physics, has developed a real-time monitoring system for radioactive waste by using a prototype array of modular sensors based on a new kind of gamma mini-sensor based on silicon photomultipliers and scintillating fibers, that behaves like a cheaper scintillator Geiger-Muller counter. It can be placed in shape of a fine grid around each single waste drum dump.

The front-end electronics based on FPGA (Field Programmable Gate Array) counting system were developed to handle the field data, implementing also data transmission, a graphical user interface and a data storage system. Following a successful test of few sensors in a real radwaste storage site, a demonstrator system is currently being installed in a large storage site.

The research centre is looking for partners for technical cooperation agreement in order to exploit the technology in storage sites for real-time monitoring of radwaste.

Advantages and Innovations

From a technical point of view a real-time monitoring of radwaste packages was already possible years ago, even though with some limitations.

Ambient radiation monitors are typically installed in several locations inside the storage sites. What one should do is replicate these systems in form of a mesh of detectors (i.e. Geiger counters) to be deployed all over the storage site around the packages and interconnected with an overall transmission and control system. This could work in principle but would pose a set of operational issues, first of all the cost.

The system proposed is a mesh of detectors to be installed on the drum platforms, capable of standing more than ten years close to a waste drum with dose rates of 10-100 mGy/h. Such

detectors are robust, have low intrinsic efficiency, in order not to be easily saturated, but at the same time their geometrical efficiency can be flexibly chosen by changing the detector length or the thickness. The detectors are simple, reliable and easy to be handled, and cost less than €100/channel for mass production.

Stage of Development

Field tested/evaluated

IPR Status

Exclusive Rights

Keywords

NACE

C.33.2.0 Installation of industrial machinery and equipment

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Task to be performed by the partner sought:
Exploit the technology in storage sites for real-time monitoring of radwaste.

Type and Size of Partner Sought

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

Type of Partnership Considered

Technical cooperation agreement

Technology Offer

Technology improving efficiency of water-tube boiler rooms is offered.

Summary

A group of scientists from North-West Poland has developed a new technology that allows to control capacity of the pump based on the temperature of water in the returning pipe in the water-tube boiler room. The solution uses 2 sensors to monitor changes of water temperature in the boiler room and to generate a signal to the pump to reduce its power. The scientists are looking for partners interested in buying the solution or introducing it on the market under license agreement.

Reference TOPL20160329001

Details

Description

A Polish scientists have developed technology of the boiler pump capacity control by measuring the temperature in the returning pipe. The solution improves efficiency of water-tube boiler room working in base of condensing boiler with a hydraulic clutch. There is no similar solutions available on the market.

The boiler is equipped with a pump, pipes, valves, sensors and controllers. There are two temperature sensors, the first one is located on the returning pipe before a hydraulic clutch and a second one is on the pipe returning to the boiler, behind the hydraulic clutch. Both sensors are connected to the controller that is also connected to the boiler circulation pump with an option of a variable speed. If the temperature of water returning to the boiler rises in relation to the temperature of water returning from the installation then the controller sends a signal to reduce the efficiency of the circuit boiler pump what allows to reduce heating cost.

The scientists are looking for partners interested in establishing partnership based on license agreement or buying the solution. A prospective partner can operate as a manufacturer of boiler room systems and its task would be introducing the technology on the market. The second type of a partner is a company that is in charge of facilities and construction management and has boiler rooms that require some improvement

Advantages and Innovations

The use of automation, sensors and controller in the water-tube boiler system allows such cooperation between condensing boiler and hydraulic clutch, that the temperature of the water returning to the boiler doesn't rise and at the same time doesn't cause reverse flows through the clutch, which greatly improves the efficiency of the boiler room.

Stage of Development

Available for demonstration

IPR Status

Patents granted

Keywords

NACE

M.74.9.0	Other professional, scientific and technical activities n.e.c.
P.85.4.2	Tertiary education

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The scientists are interested in selling their technology or share it under license agreement with partners such as water-tube boiler manufacturers who want to improve their products or building administrators who are engaged in facilities and construction management who want to improve working of their boiler rooms.

Type of Partnership Considered

License agreement
Commercial agreement with technical assistance

Technology Offer

Ultrasonic transducer for three-dimensional imaging

Summary

The start-up company from Lithuania has created the two-dimensional capacitive micro machined ultrasound transducer ultrasonic probe with 4098 (64x64) elements and integrated electronics to enable the full 3D sampling with conventional 256 channel ultrasonic scanner. Company is looking for the partnership with the skills to move from the proof of the concept to the final product. Company offers joint venture agreement, license agreement or manufacturing agreement.

Reference TOLT20160418001

Details

Description

Real-time three-dimensional (3D) ultrasonic imaging with two-dimensional (2D) transducer arrays enables (as an example) the capability to visualize the motion of heart or blood vessels with precise details. The quality of focusing, resolution and contrast in the image can be significantly improved if 2D arrays with electronic focusing and beam steering are used instead of 3D imaging systems with any kind of mechanical scanning. Improving the ease of use of 3D ultrasonic imaging in diagnosis, detection, guidance and monitoring would boost the market for ultrasonic imaging devices in a way similar to that in which digital photography changed photography and related markets.

One of the most important technical challenges for the practical implementation of matrix ultrasonic scanning is the connection of several thousands of transducer elements. Another challenge is the processing of a huge amount of data in a reasonable time. Practically this means two orders of magnitude larger data collection abilities than for conventional 2D ultrasonic imaging. The concept of capacitive micro machined ultrasound transducers (CMUT) is a key component for solving abovementioned technical challenges. As a contrast to competing piezo electrical transducers, CMUTs have better potential for integration with electronics, miniaturization and improved data collection abilities.

They are looking for the partnership to move from the proof of the concept prototype to the first commercial version. The right partner is the producer of the medical ultrasonic imaging equipment with well recognized interests in development of 3D ultrasonic imaging platform. Current and Potential Domain of Application: medical ultrasound.

The company is looking for joint venture agreement, license agreement or manufacturing agreement.

Advantages and Innovations

The target use of this probe is 3D visualization during the laparoscopic surgery and catheterization of the large blood vessels.

The use of the developed probe will reduce the clinical complications (sometimes lethal) rate by decreasing the probability of human errors (currently this is 5 – 15 % in 500 thousand blood vessels punctures done annually).

The proposed solution will also lower the requirements for the personal skills of the medical staff.

Furthermore, it will improve the availability of the 3D ultrasonic imaging in less developed

countries, because it will reduce the rate of investment required to establish the 3D ultrasonic imaging site.

Stage of Development

Available for demonstration

IPR Status

Secret Know-how

Keywords

NACE

M.72.1.9

Other research and experimental development on natural sciences and engineering

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought:ultrasound scanner and/or probe manufacturer/ experienced entrepreneur/investment company

- Specific area of activity of the partner: Medical ultrasound
- Task to be performed by the partner sought: Joint further development and commercialisation

Type of Partnership Considered

License agreement
Manufacturing agreement
Joint venture agreement

Technology Offer

Interactive pharmaceutical packaging to support homecare patients and clinical trials

Summary

A Swedish SME offers an intelligent drug management solution for homecare patients and clinical trials. The smart pharmaceutical packaging aims to support patient adherence and thereby increase the quality and efficiency of drug treatments/trials. Each medical event is automatically registered and sent to an IT system via GSM network. The company is looking for commercial/technical collaboration with partners operating in clinical trials or health management interested to implement the solution.

Reference TOSE20160404001

Details

Description

The Swedish SME is focused on developing intelligent solutions for drug management in the healthcare industry. The aim is to connect patients, healthcare and relatives to allow efficient homecare and accurate clinical trials. The smart pharmaceutical packaging is developed to address the problem of poor adherence to prescription instructions, a problem which in Sweden alone causes costs of over SEK 20 billion annually.

The offered health care product is an intelligent pharmaceutical packaging solution that support patient adherence and thereby increase the quality of drug treatments. Each medical event is automatically registered and immediately sent to an IT system. This allows real time feedback, so if a dose is forgotten the patient can receive a reminder right away. This medication package enables closer contact between patients, healthcare and relatives.

The product solution includes three parts. A cardboard package, the electronic module and the IT system. IT system is able to send information and reminders via the GSM network to the patient, relatives and doctors.

The product is ideal for private companies and public institutions supporting homecare patients (elderly homes) but also researchers and pharmacies working with healthcare such as clinical trials, e-health and health economics. The company is interested in commercial/technical collaboration with partners operating in clinical trials, pharmacy dose dispensing or drug management in nursing home or home care. To test, adopt and implement this drug management solution into existing services. As well as providing technical cooperation for academia/research with interest and expertise within adherence, health economics or clinical trials.

Advantages and Innovations

- The packaging does not include any electronics or metal components. All electronics are in the module, which is connectable to the package.

- Module is fully reusable and the package fully recyclable. No other devices are required.
- The IT system communicates in real-time and provide the users with reminders, information and feedback - user-friendly.

Stage of Development

Available for demonstration

IPR Status

Patent(s) applied for but not yet granted

Keywords

NACE

J.61.2.0	Wireless telecommunications activities
Q.86.2.1	General medical practice activities
Q.86.2.2	Specialist medical practice activities
Q.87.1.0	Residential nursing care activities
Q.87.3.0	Residential care activities for the elderly and disabled

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Partners interested in intelligent pharmaceutical solutions, adherence and patient support.

- Commercial cooperation to sell the drug management solution to partners and customers operating in clinical trials, pharmacy dose dispensing or drug management in nursing home or home care

- Technical cooperation with research partners within healthcare/academia/industry with interest and expertise within adherence, health economics or clinical trials. To adopt the solution for specific needs.

- Knowledge partners active within ICT, e-Health or adherence support

Type of Partnership Considered

Commercial agreement with technical assistance

Technical cooperation agreement

Research cooperation agreement

Technology Offer

Integrated system of technical infrastructure management for water and sewerage companies

Summary

A Polish company active in water industry sector has developed a methodology and an integrated system of infrastructure management for water and sewerage companies. The system comprises several modules and functionalities providing live supervision, safety of infrastructure and environment protection. It is protected by a utility model. The company is interested in sale or licensing of the property rights and implementation of the solution via commercial agreements with technical assistance.

Reference TOPL20160418001

Details

Description

Modern requirements for water and sewerage companies pose significant challenges when it comes to network management. Such requirements demand improvements and optimisation of water and sewerage network operations as well as eco-friendliness. In order to obtain such qualitative/ economic effect and ensure operational reliability, a Polish company active in water industry developed a methodology of implementation and an integrated system of technical infrastructure management.

The solution was developed jointly with Polish scientists and IT companies. It is a dynamic tool which can be expanded with new technical capabilities. The system is based on GIS (Geographical Information System) and ERP (Enterprise Resource Planning) systems. The solution comprises of several modules and functionalities capable of live supervision, providing safety of the infrastructure and environment protection. The whole system is designed to be managed and controlled from a Central Dispatch Office. Essential tasks of this office include: supervision of day-to-day operations, distribution of current data on technological processes, reporting for management purposes, indicating risks/ dangers in the water and sewage network, supervision of emergency works, crisis management. The integration of tools in GIS and ERP systems also creates a professional IT- management platform for executives in the company

The company is interested in making contact with businesses, public or private, active in water industry sector, interested in the purchase of property rights and/ or implementation of the solution through licensing. The company is also considering commercial agreement with technical assistance as the cooperation type. The company would provide assistance in the implementation process and would provide training for the client's staff.

Advantages and Innovations

The solution is unique in the fact that it integrates all the fields below into one comprehensive tool. The fields include:

- GIS (Geographical Information System) data base,
- model of water system network,

- model of sewerage system network,
- crisis management systems,
- live, online monitoring of water and sewerage infrastructure,
- live, online monitoring of energy consumption of water and sewerage facilities,
- complex diagnostics e.g. prediction and prevention of failures/ diagnosing weak spots in the network,
- subsystem preventing water losses,
- remote water meters' reading
- Automated SCADA (Supervisory Control And Data Acquisition) system,
- ERP (Enterprise Resource Planning) systems,
- IT tools for customer management.

To the company's knowledge, such a comprehensive system has not been implemented in water and sewerage companies yet.

Stage of Development

Available for demonstration

IPR Status

Secret Know-how,Other

Keywords

NACE

E.36.0.0	Water collection, treatment and supply
E.37.0.0	Sewerage

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

A Polish company is looking for industrial partners working in water industry. Partners should be interested in buying property rights to the methodology and solution. The Polish company also offer their expertise and assistance in the prospective technology transfer and implementation process.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement
Commercial agreement with technical assistance

Technology Offer

Wearable device and system for remote health monitoring during a diet program.

Summary

An Italian company, operating in the ICT field, has developed an interactive device to connect people to their nutritionist for the monitoring of clinical parameters while on a diet. Doctors and patients can share information and keep in touch via provided apps for smartphones. Users can also access this virtual space for monitoring all previous data by using a private key. The company is interested in commercial agreements with technical assistance or technical cooperation agreements.

Reference TOIT20160427001

Details

Description

The development of platforms for the remote monitoring of health promotes the deployment of new service models based on the improvement of an individual's quality of life with continuity of care and costs optimization.

In this perspective, an Italian company, operating in the ICT sector, has developed a special integrated system for the remote control of clinical parameters, composed by a series of devices.

In particular, the system puts into contact doctors (dietician, nutritionist) with their patients to monitor day-to-day clinical parameters while on a diet regime. They can share this information and keep in touch via provided apps for smartphone. Users can also access this virtual space for monitoring all data by using a private key, which can guarantee access only to their own data, in compliance with privacy law. This way, all information are safe from unauthorized access, loss or data damage. Thanks to one or more wearable devices, it is thus possible to remotely detect: weight, body mass index, heartbeat, calories burned, oxygenation of the blood and sleep quality. This app can measure clinical parameters thanks to special devices (armbands, scales, etc.) that communicate with a common smartphone. The data collected have the added value of being part of a continuous monitoring, particularly important in the prevention of hidden defects. Each parameter is stored in a secure environment in which only the patient and the professional (dietician, nutritionist) will have access. All operations (measurements, monitoring, notifications) are automated and streamlined using an application compatible with both iOS and Android.

The company is open to commercial agreements with technical assistance or technical cooperation agreements with private companies, public organizations, hospital departments dealing with nutrition and diet, or diet and wellness centers, interested in the integration of the system within their services and the customization of this integrated platform to specific needs.

Advantages and Innovations

Advantages and innovations of the system consisting of wearable devices and apps for the remote control of clinical parameters are that:

- devices are able to measure clinical parameters, such as weight, body mass index, heartbeat, calories burned, oxygenation of the blood and sleep quality;

- each parameter is stored in a secure environment, accessible only to the patient and the professional (dietician, nutritionist);
- day-to-day transmission of patients' clinical parameters and continuous doctor (nutritionist; dietician) / patient relationship via the web portal;
- easy to use;
- high reliability;
- apps compatibles with all kind of mobile smartphone (iOS and Android).

Stage of Development

Already on the market

IPR Status

Copyright

Keywords

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NACE

Q.86.9.0

Other human health activities

Network Contact

.....

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Open for EOI : **Yes**

.....

Partner Sought

.....

Type and Role of Partner Sought

The company is looking for SMEs, organizations or subjects, such as hospital departments dealing with nutrition and diet, or private diet and wellness centers, interested in the integration of this interactive system for individual health control in their technological platforms of services. The company is interested in commercial agreements with technical assistance in order to adapt the system to specific clients' needs or in technical cooperation for a joint development of a customized system.

Type and Size of Partner Sought

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

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

Technology Offer

Novel method for non-destructive determination of mechanical material properties

Summary

A team of German scientists developed a method and device for a non-destructive determination of mechanical properties of materials. A Cooperation with industrial partners is sought in the frame of a research cooperation agreement or on the basis of a license agreement.

Reference TODE20160314001

Details

Description

The non-contact determination of deformation and flow properties of materials is a technological challenge and thus represents an important field of study in material engineering. At present, no satisfactory solution is available.

The rheometry offers the possibility to characterize materials concerning their different loads (e.g. shear deformation, tensile deformation and bending deformation). These rheological properties are determined by applying mechanical stress which largely causes destruction of the probed component. In addition, it is a time consuming measurement which requires the preparation of specimens. The practical implementation of rheological investigations is therefore complicated and for industrial uses not economical.

The offered innovation presents a method that addresses the aforementioned thematic and is suitable for the investigation of a variety of elastic and viscoelastic materials as well as glasses and liquids. It is using the acoustically induced laser scattering method (ALS) that avoids these disadvantages by applying the principle of the acousto-optical modulation. By an appropriate arrangement of an ultra-sonic source a sonic grid diffracting laser light is generated in the material. By exclusively using the diffraction peak of the laser light in a test object the invention enables new possibilities of non-invasive determination of relevant rheological and other mechanical properties. With this method a non-destructive measurement with little technical effort and very short measuring times gets possible. Especially it is suitable for in situ measurements in contrast to conventional rheometers.

Thus, the invention has a big market potential in the fields of materials science, materials testing, material engineering and quality assurance.

To make the developed method and device fit for practical applications the scientists are now looking for industrial partners interested in a common further development on the basis of a research cooperation agreement or in a license agreement.

Advantages and Innovations

- Non-destructive determination of rheological and mechanical material properties
- In situ measurement with shorter measurement periods and lower preparative effort as compared with the state of the art

Stage of Development

Concept stage

IPR Status

Patent(s) applied for but not yet granted

Keywords

NACE

- | | |
|----------|---|
| M.72.1.9 | Other research and experimental development on natural sciences and engineering |
| M.72.2.0 | Research and experimental development on social sciences and humanities |

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought:
- Industry

Specific area of activity of the partner:

- Measurement technology
- Material testing
- Medical technology

Task to be performed:

- R&D cooperation in order to commercialize the technology

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

Partial- and microgravity simulation through random positioning

Summary

A Dutch independent establishment of an international company offers microgravity research. They do this with a self-developed Random Positioning Machine (RPM), which provides microgravity by continuously changing the orientation. This generates effects similar to the effects of true microgravity (space). The company is looking for research and development companies in life sciences, astrobiology and regenerative medicine for commercial agreements with technical assistance.

Reference TONL20160330001

Details

Description

The Random Positioning Machine (RPM) of the Dutch company simulates micro-gravity. A sample container, which is connected to two independent axes, is rotated by the machine with random speeds in all directions. Due to the random motion, the sample experiences gravity from every direction. Thus, after some time the average of the gravity affecting the sample goes to zero. In this way, the RPM simulates microgravity for objects inside its container. This is sometimes also referred to as 3D clinostat.

Thanks to its versatility and quality the RPM is invaluable for research and development in many different fields, such as:

- Life science, cell biology and microbiology
- Astrobiology and planetary research
- Regenerative medicine, tissue engineering and stem cell research

Partial gravity

The RPM simulates 'partial gravity'. This provides all gravity levels from 0g up to 0.9g. Partial gravity is achieved by changing the random motion pattern in such a way that on average the sample experiences some influence of Earth's gravity. It is used for simulating e.g. the 0.38g Mars' gravity or 0.17g Moon's gravity, but also for determining e.g. the gravity level at which organisms or cells change behaviour.

Life science, cell- and microbiology

Gravity has many important effects on cells and introducing microgravity allows new cell-, micro- and mechanobiology research. For example, microgravity leads to different intra- and inter-cell communication, changes in genetic expression, cell growth and shape, gravitropism and mechanosensitivity effects, etc.

Regenerative medicine, tissue engineering and stem cell research

Recently published papers describe the use of RPM for regenerative medicine and 3D tissue engineering / cell culturing. For example, research has shown that microgravity can be used to

reduce differentiation of stem cells.

Astrobiology and planetary research

The partial gravity feature (0g – 0.9g) of the RPM is also very useful for astrobiology research. It is used to research organisms survival, development, behaviour etc. in extra-terrestrial environments such as the 0.38g Mars' gravity and 0.17g Moon's gravity. Furthermore, the instrument is involved in different control, pre- and post-experiments for the International Space Station (ISS). For example, microbiology is researched with the RPM since bacterial virulence and growth rate increase in microgravity.

The company is looking for research and development companies in life sciences, cell- and microbiology, astrobiology, regenerative medicine, tissue engineering, stem cell research, astrobiology and planetary research within the frame of commercial agreements with technical assistance.

Advantages and Innovations

In comparison to prevailing techniques the Random Positioning Machine (RPM) enables micro- and partial gravity research for scientific, educational and industrial applications where experiments require a long-duration exposure to microgravity (hours, days, weeks).

Advantages of the RPM are:

- Unique and proven path algorithms with protection against pole bias.
- Advanced on-the-fly control and monitoring of experiments using fully integrated power and communication interfaces.
- Compact design to support experiments in incubator and radiation facilities.

The RPM provides a platform for mounting the experiment package, which is adjustable in height. The system is designed to operate inside an incubator for control of temperature, CO₂ and relative humidity (non-condensing). Hardware and software are included to operate the RPM and to monitor its parameters, such as average g-level.

The RPM is a proven asset and valued by the scientific community as a simulation platform for micro- and partial gravity experiments. Moreover, the RPM is used for preparation and post-analysis of experiments that fly on the International Space Station.

Stage of Development

Already on the market

IPR Status

Secret Know-how, Copyright

Keywords

NACE

C.26.5.1 Manufacture of instruments and appliances for measuring, testing and navigation

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought:

Universities, (R&D) companies, institutes, hospitals, agencies.

Specific field:

Partner sought in one or more of the following research fields:

- Life science, cell biology or microbiology.
- Astrobiology or planetary research.
- Regenerative medicine, tissue engineering or stem cell research.

Role of partner:

Performs research and/or development in one of the above mentioned fields and is interested in exploring and applying the benefits of microgravity by using the Random Positioning Machine.

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

Commercial agreement with technical assistance

Technology Offer

A Russian company specializes in development of control and monitoring software proposes partnership for companies interested in offering software solutions on remote device monitoring and management.

Summary

A Russian company specialized in development of control and monitoring software proposes partnership for companies interested in offering software solutions on remote device monitoring and management. Their solution allows you to benefit from direct management of large networks as well as its integration with any other third-party systems. Interested in License Agreement, Services Agreement.

Reference TORU20160331002

Details

Description

The Russian company offers its software solution - the platform, that employs modern network technologies to control, configure, monitor and service different electronic devices for distributors and it-companies to use its platform for their self-labeled projects. This is white-labeled Internet of Things platform.

AggreGate is a white-labeled Internet of Things platform that employs modern network technologies to control, configure, monitor and service different electronic devices. This system allows companies to benefit from direct management of large networks as well as its integration with any other third-party systems. Out-of-the-box solutions based on this system include:

- Network Monitoring and IT Management
- SCADA/HMI and Process Automation
- Physical Access Control
- Time and Attendance
- Building Automation
- Remote Monitoring and Service
- Vending Machines and Self-Service Kiosks
- GPS Monitoring and Fleet Management
- And more

The company is interested in cooperation based on License Agreement or Services Agreement. Russian company want to provide access to its technology solution with selling foreign companies a licence for its using. Another way of cooperation is services agreement - the company wants to find big corporations, that need in internet technology services, based on using big data information, monitoring services, controlling and automation.

Advantages and Innovations

Advantages of this solution are:

- Unified data model, including normalized presentation of various hardware devices that opens them for internal data processing tools and various external systems
- Servers run under Windows, Linux и Mac OS
- Multi-server unified operations console and web UI
- Support of various databases, including Oracle, MS SQL, MySQL, PostgreSQL, Firebird
- Support of group configuration for network devices with a function of delayed configuration
- Integrated problem-oriented languages, query language and expression language, for deep network and device state analysis
- Failover clustering for providing 100% server availability
- Building distributed systems designed to assure unlimited scalability by balancing all operations between AggreGate servers subdivided in multiple layers.
- Available open-source SDK and API for Java and .NET making it possible to create device drivers, server plugins, non-standard agents, as well as integration with third-party systems.

Stage of Development

Already on the market

IPR Status

Secret Know-how, Patents granted, Exclusive Rights, Copyright

Keywords

NACE

J.62.0.1	Computer programming activities
J.62.0.2	Computer consultancy activities

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Ideal partners are representatives of small, medium or large IT businesses ready to become a distributor (reseller, VAR, system integrator) or wishing to distribute the software under their own brand. They can also be OEMs interested in monitoring and management of their equipment. Partners should have expertise in IT for no less than 5 years. Preferably those with a large client base and potential projects on monitoring and management of electronic devices.

Type and Size of Partner Sought

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

Type of Partnership Considered

Services agreement
License agreement

Technology Offer

Energy efficiency and thermal comfort in buildings

Summary

An Italian research team, working in the field of building construction and with expertise in energy efficiency, has developed an innovative methodology able to design new energy efficient buildings and thermal comfort. The proposed methodology can be successfully applied even to some historical building of great construction complexity. The partners sought are research centres, universities and SMEs interested in research cooperation or technical cooperation agreement.

Reference TOIT20160412001

Details

Description

Dynamic simulations using a whole building simulation tool and in situ measurements are used to investigate the energy performance of the buildings and to evaluate the operation of the plants system. Such dynamic simulations are commonly applied to new or recent constructions for energy demand and efficiency evaluation, however recently it has become a tool frequently used in the field of cultural heritage.

The research team, specialized in engineering and consulting services related to building construction, gained a good experience in dynamic simulation of various kinds of buildings with the aim of designing new energy efficient constructions and proposing valuable solutions for existing buildings retrofit.

The team has expertise in verification of sustainable building design, retrofit of historical buildings, use of sustainable solutions for new designed building (green buildings), study of cultural heritage environment using both in situ measurements and dynamic simulation proposing optimization strategies of the indoor microclimatic conditions for the cultural heritage conservation and fruition.

The team takes particular care in the calibration phase of the dynamic model using in situ measurements. In this way the modelling is accurate and reliable.

The method is developed in two consecutive phases: energy performance assessment and thermal plants functioning evaluation.

The first phase consists in a careful survey of the building characteristics in order to create a model as similar as possible to the real construction. A short term monitoring campaign is then carried on and temperature data are used to calibrate the model. The calibration is a reliable characterization of the building envelope. Simulations are then used to evaluate the energy demand of the building using ideal heater and cooler as thermal devices.

The second phase entails the implementation of real plants into the building model and the evaluation of their performance considering standard occupant behaviour. Calibration of the plants is carried out using data from long term monitoring during plants operation. The obtained tool is used to evaluate optimization solutions of envelope and plant functioning paying attention to occupancy and comfort conditions.

The data analysis is performed through particular software with a dynamic building simulation tool that allows evaluating refurbishment solutions for energy preservation. The thermal simulation software tool is based on a general system simulation platform with a modular approach. The multi-domain physical systems are described through symbolic equations using the Neural Model Format simulation language.

The team offers its expertise to research centres, universities and SMEs interested in energy efficiency or thermal characterization. Partners sought can be also active in cultural heritage sector. The collaboration offered is research cooperation or technical cooperation.

Advantages and Innovations

The research team has developed an innovative methodology entailing the synergic use of measurements and simulations to optimize retrofit solution in buildings, thermal comfort and energy efficiency.

The proposed methodology is also applicable in the cultural heritage context for the optimization of indoor microclimate in order to improve the conservation conditions.

Once calibrated the tool is a good means to test refurbishment and environment optimization solutions in a sustainable way that is at low cost and low environment impact.

Stage of Development

Available for demonstration

IPR Status

Other

Keywords

NACE

M.71.1.2 Engineering activities and related technical consultancy

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The research team is looking for research centres, universities and SMEs involved in energy efficiency sector or interested in thermal characterization.

Potential partners can be also involved in cultural heritage field.

The research team is interested in research cooperation or technical cooperation agreement to adapt the proposed methodology for a new application.

Type and Size of Partner Sought

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

Type of Partnership Considered

Technical cooperation agreement

Research cooperation agreement

Technology Offer

Smart electric bike

Summary

Croatian SME has manufactured smart electric bicycle for urban daily commuters in large cities. Their technology makes ebikes theft proof, makes rider safer, connects ebike to the cloud and turns smartphone screen into a dashboard for ebike. Their targeted partners are big tech companies which could use this bike as fleet company vehicles. Partners are sought for manufacturing and technical cooperation agreement, but also for financial agreement.

Reference TOHR20150907001

Details

Description

The company, founded in 2014, is engaged in the development, production and sale of smart electric bikes, smartphone integration for electric bikes and smart battery packs.

This product, which consists cycling components of high quality, solid and lightweight frame, is made of carbon fiber unique design, smartphone applications, electronic tag that allows integration with a smartphone device, intelligent battery pack and cloud for monitoring power consumption statistics and cycling.

Innovative part on this electric bicycle is smartphone integration - it offers a link between all components on bicycle and smartphone application. That is achieved with in house developed electronic board and software and there is no need for training in order to use it. You have pin code that unlock hardware (bike) via smartphone app, that is why it is hard to steal this bike on the street. It also has GPS tracking, alarm system and black box technology that automatically reports emergencies. Advantages are also the navigation system and possibility of tracking and analysis of riding statistics.

The company finished serial product available for the market. Partners are sought, not just for financial agreement e.g. investment for further development of a new innovative product or a big tech companies which could use this bike as fleet company vehicles, but also for manufacturing on some other market than croatian and technical cooperation agreement that can improve the product i.e universities and SME.

Advantages and Innovations

- Smartphone integration
- IoT connectivity
- Pin code unlock via smartphone app
- Automatic hardware locking
- GPS tracking
- Alarm system
- Black box technology (automatic 112 alarm)
- o Automatic accident detection

- o 112 notification
- o Accident recording system
 - Automatic gear shifter
 - OTA updates of ebike components
 - VisioCloud for tracking and analysis of riding statistics
 - Navigation system

Ebikes from competitors do not have smartphone integration, instead they rely on black and white displays with limited functionality or, in more advanced versions, to a color displays. Important part of this solution is ease of use achieved with very user friendly and well thought out application, features and design.

There is no need for special training in order to use this bike.

Most innovative part is a link between all components on bicycle and smartphone application. That is achieved with in house developed electronic board and software.

Stage of Development

Already on the market

IPR Status

Secret Know-how, Design Rights

Keywords

NACE

H.49.3.1

Urban and suburban passenger land transport

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Croatian SME is looking for partner who can manufacture this innovative bike on some other market than croatian. It is preferred that the partner is in cycling industry or some other companies with all needed equipment for production and fundamental knowledge.

Also, partner interested in the technical cooperation agreement that can improve the product is sought. It can be universities and SME or MNE.

For financial agreement is acceptable any partner that is interested in investment for further development of a new innovative product that has already been sought on the market or a big tech companies which could use this bike as fleet company vehicles.

Type of Partnership Considered

Financial agreement

Manufacturing agreement

Technical cooperation agreement

Technology Offer

Offer of Wind Tunnel Facilities to experimental activities

Summary

A Portuguese research group, specialised on data acquisition and post-processing in experimental fluid dynamics evaluations, offers 3 wind tunnels with complimentary configurations. They are open to cooperate with industry, universities, R&D institutions, seeking for knowledge and expertise on theoretical and experimental wind tunnel activities. The institute is looking for partners to cooperate with via the following agreements: license, services, research cooperation or technical cooperation.

Reference TOPT20160404001

Details

Description

This research group offer their 3 wind tunnels to experimental activities.

The main characteristics are described below:

- WT1 is a closed loop wind tunnel with a continuously tuned velocity up to 45m/s, an empty test chamber turbulence level below 1% and boundary layers thickness less than 3cm. Its test chamber has 1.25 x 1.00 x 3.00 m³.
- WT2 is an open ends suction wind tunnel with a continuously tuned velocity up to 18m/s, an empty test chamber turbulence level below 3% and boundary layers thickness less than 3cm. Its test chamber has 3.10 x 2.00 x 4.00 m³ and a total length of 9m.
- WT3 provides a 1.5 m diameter jet stream reaching a continuously tuned velocity of 18m/s and is specifically dedicated to open air structure tests.

This research group is open to cooperate with partners from industry, universities or other R&D institutions, seeking for knowledge and expertise on theoretical and experimental wind tunnel activities. The group specialises on data acquisition and post-processing in experimental fluid dynamics evaluations. Assistance on design for model construction can also be provided. The institute is looking for partners to cooperate with via the following typt of agreements: license, services, research cooperation or technical cooperation.

Advantages and Innovations

A great advantage of the cooperation with this research group is its potential for innovation due to the versatility of the facility and the consistent quality of its staff skills.

It has been dedicated to multiple aerodynamics and wind engineering fields such as the wind action on building envelopes or on bridge decks. Many experimental activities have been successful.

Numerous scour tests have been performed to analyse pedestrian comfort and safety on outdoor spaces. Several studies have been accomplished to reduce the wind vibration induced on communication towers and chimneys.

Research has also been developed in the fields of ventilation, vehicle aerodynamics and evaluation of the potential of wind power parks sitting.

Stage of Development

Already on the market

IPR Status

Other

Keywords

NACE

M.71.1.2	Engineering activities and related technical consultancy
M.71.2.0	Technical testing and analysis
M.72.1.9	Other research and experimental development on natural sciences and engineering

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

SME, R&D Institution or University seeking for knowledge and expertise on theoretical and experimental wind tunnel activities as, for instance, the assessment of building structures and façade elements behavior, bridges aerodynamics stability, pedestrian comfort and safety in open spaces, vibrations induced at towers and chimneys, vehicles aerodynamics behavior or building ventilation conditions.

Type and Size of Partner Sought

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

Type of Partnership Considered

Services agreement
License agreement
Technical cooperation agreement
Research cooperation agreement

Technology Request

Predictive algorithms modeling to forecast diseases and pests in crops plantations

Summary

An Italian SME operating in the Internet of Things market is looking for new predictive algorithms modeling to forecast, as accurately as possible, diseases and pests in cultivations, with a focus on crops. These new algorithms will be integrated in an already existing proprietary Decision Support System (DSS) web-platform for agriculture. The modeling shall allow to widen the range of predictable diseases and pests of further crops. The SME is looking for license agreement or partnership.

Reference TRIT20160406001

Details

Description

The company is a young and agile startup that aims to be disruptive in the Internet of Things market. Mixing creativity, design and advanced engineering, the company is developing innovative hardware and software solutions, meant to change radically the routines of established market leaders. The company is also committed to develop genuine multi-purpose products to improve people quality of life, inventing new ways of interaction with their environment. All the projects carried on are business and consumer oriented, and aim to make good technology available for everybody.

The company is developing an innovative Decision Support System (DSS), operating in the agriculture market. It is an integrated hardware-software system including a network of sensors that collect and process environmental data from plantations, and a web platform that displays the information to the final user.

This is how the DSS works in details:

- it acquires parallel real time measurements of physical and chemical key factors about the surrounding environment by the mean of several sensors (for weather, soil, plant factors, air quality, lighting, and so on);
- it transfers wirelessly the acquired data to the proprietary web platform, deployed on a remote server, in order to provide all necessary data required by predictive algorithms (the data are processed through by predictive algorithms integrated in the platform, which will include the modeling here sought);
- it delivers to the end user information in real time, including the processed data and the results of predictive algorithms, providing a forecast accordingly.

The company is now looking for new predictive algorithms to integrate in its Decision Support System. The modeling sought should allow the prediction of diseases and pests that can affect the crops. The plantations include (but are not limited to) vegetables, cereals, fruits, vineyards and olive groves. The modeling shall be as accurate as possible, and allow elaborating a

precise forecast of insurgent diseases and pests.

The company is open to start a partnership with the modeling provider, as well as purchase the modeling.

Technical Specification or Expertise Sought

- the predictive algorithms modeling shall be able to provide a reliable forecast on diseases and pests that might affect crops plantations;
- the algorithms must have been tested both in labs and on the field;
- the quality of the modeling will be evaluated based on its accuracy: the prediction must be as precise as possible;
- the modeling should be open to future updates, in order to be kept up to date;
- The model should be able to predict, among the others, the following pathogens, fungus and water moulds: peronospora, alternariosis, rhizoctonia, fusarium, powdery mildew (erysiphales), cercospora, pleospora betae (phoma betae).

It should also include predictions for bacteria illnesses like xanthomonas campestris, pseudomonas cichorii and acidovorax valerianellae (gram-negative bacteria).

Stage of Development

Project already started

IPR Status

Other

Keywords

NACE

A.01.6.1	Support activities for crop production
C.27.9.0	Manufacture of other electrical equipment
J.63.9.9	Other information service activities n.e.c.
M.72.1.1	Research and experimental development on biotechnology

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought: academy, research organization, sme or similar, able to provide reliable predictive algorithms

Specific area of activity of the partner: companies operating in agriculture and agronomists that have developed or can develop predictive modeling are an ideal fit;

The company aims at starting a partnership with the modeling provider, or acquiring the license of the requested modeling.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement

Technology Request

Medical imaging company for human applied thermo-photo-acoustic imaging prototype development.

Summary

A French public research laboratory dedicated to photonics, electromagnetism, signal & image analysis is working on applications of thermo-acoustic and photo-acoustic imaging. They are promising non-invasive and non-ionizing technologies whereas current techniques imply a certain complexity in capturing and processing the signals to locate a tumor. The laboratory looks for a company in medical imaging sector able to develop a prototype in human through a technical cooperation agreement.

Reference TRFR20160301001

Details

Description

The laboratory team has developed an invention which relates to a method based on thermo- and photo-acoustics for locating at least one target in an electromagnetically absorbent environment. It also relates to a corresponding computer program and device, as well as an application of this method for detecting and locating tumors in biological tissues.

Context:

The photoacoustic or thermoacoustics imagery is growing rapidly now in the biomedical field, in particular because it is deemed to be non-invasive and nonionizing. Photoacoustics, or thermoacoustics, applied to the locating of heterogeneities (or targets) embedded in an environment characterized by electromagnetic and acoustic properties that are different from these heterogeneities. This is for example the case of heterogeneities such as tumors in biological tissues.

Thermo- and photo-acoustics combine the high contrast in electromagnetic absorption between healthy and cancerous tissue with the high resolution of ultrasound. However, current approaches require multiple acquisitions and downstream complex processing to locate tumors. Moreover, current approaches limit the use of the acoustic signal resulting from the emission of the excitation signal to the electromagnetic inhomogeneity of the tumors.

Invention:

The technology developed by the laboratory overcomes current photo- and thermos-acoustics limits through a smarter use of marginal signals (acoustic heterogeneities of tumors) with the aim to improve the localization of tumors more quickly and with greater precision.

Indeed, this leads to detecting, in addition to the first response resulting from a first acoustic disturbance caused by the electromagnetic heterogeneity of the tumor in the biological tissue, a second response resulting from a second acoustic disturbance caused by the acoustic heterogeneity of the tumor.

As such, with a single emission, two pieces of information are available, the source-tumor distance and the tumor-sensor distance, in order to locate the tumor more precisely.

Market applications :

Breast cancer is one of the most important cancer for woman. Actual detection techniques for breast cancer are ionizing and/or not very accurate and/or painful. There is a real need for an accurate tumor localization system and the invention developed by the French team could be this system.

Other medical applications: cancer, angiology and dermatology

Other application : materials characterization is also another possible application (e.g. geology).

Now the French team needs a technical cooperation agreement to develop a prototype in human: the French laboratory has started developing this innovative solution to improve the localization of tumors (more quickly and with greater precision) and is now seeking a company in the medical imaging sector providing technological expertise and the ability to help them further and develop a prototype in human through a technical cooperation agreement.

Technical Specification or Expertise Sought

The laboratory is looking for a medical software or device company having an expertise for development regulation and commercialisation of medical devices (example : software and equipment manufacturers for tomography).

Stage of Development

Under development/lab tested

IPR Status

Patent(s) applied for but not yet granted

Keywords

NACE

Q.86	Human health activities
Q.86.1	Hospital activities

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The French laboratory is currently looking for an industrial partner with relevant experiences in medical software or device development having an expertise for regulation and commercialisation of medical devices - and interested in developing the prototype in human.

For example, the team is seeking for software and equipment manufacturers for tomography.

The type of partnership sought is a technical cooperation agreement.

Type and Size of Partner Sought

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

Type of Partnership Considered

Technical cooperation agreement

Technology Request

Looking for expertise in signal processing and sensors for nuclear measurement especially for beta and alpha radiation. Technical or research cooperation agreement is looked for.

Summary

French SME near Paris, specialized in conception of equipment for air quality control, is looking for skills in signal processing for nuclear measurement especially in the field of alpha beta environmental continuous air monitoring. The SME seeks hardware and nuclear detectors (sensitivity, efficiency, etc.), signal processing, alpha spectroscopy and beta counting, in order to develop a prototype (TRL 7). The SME would contract a technical or research cooperation agreement.

Reference TRFR20160419001

Details

Description

French SME near Paris, specialized in conception of equipment for air quality control, has developed a new concept of alpha beta environmental continuous air monitoring.

Specifically, the project consists in developing an acquisition electronics system (hardware and software) to measure alpha and beta activity (Bq / m³ of air). Electronics must collect alpha and beta spectral data for analysis. Alpha and beta spectrums are also used to compensate with radon.

The targeted application is air monitoring in nuclear plants.

The proof of concept is done and the TRL is about 3. In order to reach TRL 7 by realizing a system prototype demonstration in operational environment, the french SME is looking for skills in signal processing for nuclear measurement especially in this field of alpha beta environmental continuous air monitoring.

The SME seeks hardware and nuclear detectors (sensitivity, efficiency, etc.), signal processing, alpha spectroscopy and beta counting, in order to develop a prototype (TRL 7).

The partner sought must have competence and necessary knowledge to realize a part of the prototype, especially the choice of sensors and the signal processing part.

The SME would contract a technical or research cooperation agreement.

Technical Specification or Expertise Sought

The French SME is looking for expertise in the field of signal processing for nuclear measurement especially for beta and alpha radiation. The partner should well know the different kind of sensors for this kind of radiation.

Stage of Development

Available for demonstration

Keywords

NACE

C.27.9.0

Manufacture of other electrical equipment

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The partner sought could be a company or a R&D institution and must have competence and necessary knowledge to realize a part of the prototype, especially the choice of sensors and the signal processing part.

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

Technical cooperation agreement
Research cooperation agreement