



Boletín nº 152 de Oportunidades de Cooperación:

Tecnologías de la Información y Comunicaciones

Seguridad

(Marzo 2017)

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Anexo con detalle de los perfiles de cooperación

1. Perfiles de cooperación (54)

Title	Reference	Country	Type
H2020-ICT-05-2017: Internet of Things (IoT) end users and experts in supercomputing, IoT software and programming sought	RDES20170222001	Spain	Proyecto buscando socios
[EUREKA or Eurostars2] Looking for European partners to employ developed metal foam technology into energy and bio material industry	RDKR20161226001	South Korea	Proyecto buscando socios
H2020: Partners sought for the delivery and testing of 'ICT e-learning & Training' in low and middle income countries	RDUK20170209001	United Kingdom	Proyecto buscando socios
H2020: Partners sought by UK based SME for the delivery of a 'Personal Health Record System' in low and middle income countries	RDUK20170220001	United Kingdom	Proyecto buscando socios
H2020-ICT-23-2017: Looking for SME to develop on line methodology for training	RDES20170216001	Spain	Proyecto buscando socios
INTERREG Europe Third Call: Partners with expertise in the field of health economy, e-health and AAL especially from Estonia, Poland and other countries in Eastern Europe	RDDE20170209001	Germany	Proyecto buscando socios

sought			
H2020 - SME Instrument- Phase 1: looking for public authorities dealing with water/flooding control	RDIT20170202002	Italy	Proyecto buscando socios
Compact solar collector with linear Fresnel concentrator and triple movement.	TOES20170131001	Spain	Oferta
A Korean SME is seeking a commercial and technical partner for their customized network security equipment and servers	TOKR20170123001	South Korea	Oferta
A Korean company seeks a partner on their developed wireless telecommunication equipment	TOKR20170123002	South Korea	Oferta
A Korean company offers high-performance server storage applied with DRAM (Dynamic Random Access Memory) based hybrid semiconductor system	TOKR20170208001	South Korea	Oferta
A Korean company offers energy-efficient and cost-effective optical engines	TOKR20170217001	South Korea	Oferta
A fully automated system for monitoring and controlling of water consumption.	TOMK20170227001	Macedonia, The former Yugoslav Republic of	Oferta

A Polish innovative company with photonics technology is looking for R&D partners and distributors	TOPL20170209001	Poland	Oferta
Flexible lithium-ion batteries (F-LIBs) by the use of electro-spinning (ES) technique	TOIT20170126001	Italy	Oferta
A Greek research laboratory specializing in numerical analysis offers its support as a partner or subcontractor for R&D institutions and industrial entities	TOGR20170124001	Greece	Oferta
Greek SME offers an innovative, user-friendly software solution for the administration and online distribution of travel services	TOGR20161209002	Greece	Oferta
Hungarian SME offers logistics appointment system – online time window	TOHU20161128001	Hungary	Oferta
Novel method for early detection of amblyopia	TOHU20170301001		Oferta
Croatian SME's solution which enables maximum charging of lead batteries and contributes to energy and time savings looking for license/manufacturing agreement	TOHR20170124002	Croatia	Oferta

High-precision non-contact durable liquid flow meter	TOHR20170207001	Croatia	Oferta
A Polish company offers traffic light priority system for trams and buses in a public transport via license agreement.	TOPL20160929001	Poland	Oferta
Production line for the damage-free processing of high voltage cables for electric and hybrid vehicles	TODE20170202001	Germany	Oferta
Life-quality improving device with software for body 24/7 monitoring and analyzes for it's predictions, such as EEG, GSR, heart rate, etc.	TOLV20170202001	Latvia	Oferta
Research team seeks policy makers and/or academics to develop an e-government services platform for citizens and businesses.	TOGR20170124003	Greece	Oferta
A UK company offering a low temperature soldering alloy for joining carbon materials seeks partners to implement their solution for a commercial agreement with technical assistance or to join an R&D consortium for a research cooperation agreement.	TOUK20170223001	United Kingdom	Oferta

Integrated software for water quality assessment	TOBE20161221001	Belgium	Oferta
Stress-detection algorithm for wearable devices is offered for licensing	TOSI20170301001	Slovenia	Oferta
Innovative functional assay service for genetic variants	TOUK20170217001	United Kingdom	Oferta
Development of a highly efficient gasoline combustion system using innovative combustion chamber insulation and Miller-cycle	TODE20170210001	Germany	Oferta
Advanced research and development in mobile propulsion using cutting edge test facilities	TODE20170301001	Germany	Oferta
New railway applications using an integrated high precision global navigation satellite/Galileo receiver with optimised communication module and central service platform	TODE20170203001	Germany	Oferta
Smart waste management tool based on real-time data.	TOES20161028001	Spain	Oferta
Innovative static solution for biometrics based on iris recognition	TOES20161028002	Spain	Oferta
Novel set of IT tools for	TOES20170207001	Spain	Oferta

monitoring and objectifying the table olives elaboration process			
German IT company specialized in the digitisation and automation of processes offers its service	TODE20170213001	Germany	Oferta
Genetic technologies for multi-purpose environmental bioassessment and biomonitoring: environmental DNA tests	TOCH20170301001	Switzerland	Oferta
Energy recovery system for lifts in direct current	TOES20170224001	Spain	Oferta
Cogeneration from biomass gasification: a fully integrated, automated and containerised plug-and-play solution for Combined Heat and Power production from natural renewable sources.	TOIT20170119001	Italy	Oferta
Virtual Reality Based Evaluation of Mental Disorders	TOES20161130002	Spain	Oferta
Laboratory-scale device to measure gas diffusion coefficients in real conditions	TOES20170210001	Spain	Oferta
Portable 3D microscope with size of a camera	TOES20170214003	Spain	Oferta
Fast and cost-effective computational chemistry	TOES20170214002	Spain	Oferta

methodology to find novel hits on cancer chemotherapy			
Spanish company with advance drone systems for fumigation and pest control in agriculture seeks commercial agreement with technical assistance.	TOES20170201001	Spain	Oferta
A Chinese environmental protection engineering company is looking for German experts who have technology in pulverised coal boiler	TRCN20170206001	China	Necesidad
Aircraft Wake Turbulence Prediction	TRRO20170131004	Romania	Necesidad
Improving energy efficiency for campuses	TRRO20170131006	Romania	Necesidad
Nature inspired micro fluidic manipulation system	TRRO20170131007	Romania	Necesidad
Spanish logistics company is looking for drone technology applied to inventory and stock management	TRES20170208001	Spain	Necesidad
A Greek company is looking for partners to co-develop a decision support system (DSS) for the environment based on GIS and remote sensing	TRGR20170214001	Greece	Necesidad
Technical partner sought to convert eco-innovative bikes into	TRBE20170213001	Belgium	Necesidad

E-bikes			
Off-grid solar system with stand-alone payment process	TRUK20170227001	United Kingdom	Necesidad
Embedded software for automotive networked sensors: communication interfaces	TRLU20170213001	Luxembourg	Necesidad
Machinery, equipment and programs requested for medical devices manufacturing	TRRO20170301001	Romania	Necesidad

2. Otros proyectos TIC buscando socios (IDEAL-IST)

[LANCELOT: Self-aware Intelligent Services Development for Low Energy and Highly Parallel Computing](#)

[Automated Monitoring, and Selective Thinning and Harvesting of Tree-Crop Farms](#)

[\[H2020-WIDESPREAD-2016-2017 -TWINNING\] - Twinning Partner For Research capacity Increase in Business Intelligence](#)

[S-Coin \(Sustainability Circles of Online Investment Networks\)](#)

[Time and Energy Analysis for Multicore/Manycore Processors \(TeamPlay\)](#)

[Software Defined Execution Environment for Big Data Processing Systems](#)

[Domestic Recovery of Scrap using Smart Services \(CIRC-01-2016-2017\)](#)

[ISICDA Imaging System for Improved Cancer disease Diagnosis Aid](#)

[MISSING LINKS to QUANTUM BRAIN SIGNAL PROCESSING](#)

[Ultrafast low-energy all-electronic memory for flux quantum logic](#)

[Quantum-like Approaches for Decision Making Under Uncertainty](#)

[Search for qubits in new CMOS architectures](#)

[Evidence Based Gamification Toolkits and an ICT Platform for mHealth Supported Sustainable Physical Activities](#)

[QuanTest: Building Testing Foundations for Quantum Programming](#)

[Mechanism for quantized phonon transport between graphene layers](#)

[Solving Optimization Problems with Adiabatic Quantum Computation](#)

[Quantum sensing with massive and fast entangled atoms from dissociation of rotationally and vibrationally cold dimers in supersonic beams](#)

[Torsec](#)

3. Informes y Publicaciones

Informe “Los modelos colaborativos y bajo demanda en plataformas digitales” (Adigital y Sharing España)

<https://www.adigital.org/?noticias=adigital-presenta-primer-estudio-define-no-economia-colaborativa>

Informe “Las ciudades del futuro: inteligentes, digitales y sostenibles” (Fundación Telefónica)

<http://www.fundaciontelefonica.com/artecultura/publicaciones-listado/pagina-item-publicaciones/itempubli/561/>

Informe “El próximo paso: la vida exponencial” (BBVA OpenMind)

<https://www.bbvaopenmind.com/libro/el-proximo-paso-la-vida-exponencial/>

Informe “The self-driving future. Consumer views on letting go of the wheel and what’s next for autonomous cars” (Ericsson ConsumerLab)

https://www.ericsson.com/news/170217-driverless-becomes-a-reality_244010065_c

V Edición del Informe Infoempleo – Adecco sobre Redes Sociales y Mercado de Trabajo en España (Infoempleo y Adecco)

<http://blog.infoempleo.com/a/informe-infoempleo-adecco-empleoyredes-2017/>

Informe “An incredible decade for the smartphone: what’s next? The Future of Mobile is in Combining Devices, Content, and Services” (Kantar Worldpanel)

<https://www.kantarworldpanel.com/global/News/2017-smartphone-industry-insight-report>

Informe “Building trust in analytics. Breaking the cycle of mistrust in D&A” (KPMG y Forrester Consulting)

<https://home.kpmg.com/iv/en/home/media/press-releases/2017/02/business-executives-lack-confidence-in-generating-trusted-insigh.html>

Informe “Aiming higher. How enhanced network performance improved satisfaction among spectators at the 2016 Summer Games in Rio” (Ericsson)

<https://www.ericsson.com/networks/topics/connected-stadium/rio-report>

Dynamic Digital Consumers Survey. The race to the smart home (Accenture)

<https://newsroom.accenture.com/news/csps-risk-losing-customers-to-global-digital-giants-accenture-survey-finds.htm>

Informe “State of Connectivity 2016: Using Data to Move Towards a More Inclusive Internet” (Facebook y The Economist Intelligence Unit – EIU)

<https://info.internet.org/en/blog/2017/02/28/state-of-connectivity-2016-using-data-to-move-towards-a-more-inclusive-internet/>

Informe “The economic cost of IPR infringement in the smartphone sector” (EUIPO)

<https://euipo.europa.eu/ohimportal/es/web/observatory/ipr-infringement-smartphone-sector>

Informe “The Mobile Economy 2017” (GSMA)

<http://www.gsma.com/newsroom/press-release/number-of-global-mobile-subscribers-to-surpass-five-billion-this-year/>

Informe “Embracing Innovation in Government. Global Trends” (OCDE)

<http://www.oecd.org/innovation/innovative-government/embracing-innovation-in-government-global-trends.htm>

Informe “Leveraging the upcoming disruptions from AI and IoT” (PwC)

<http://press.pwc.com/News-releases/ALL/ai-and-iot-teaming-up-to-reimagine-the-labour-market/s/cc6ee7e3-f5a3-4dae-b63f-584477ef0b46>

Informe “Beyond the supercycle: how technology is reshaping resources” (McKinsey Global Institute)

<http://www.mckinsey.com/business-functions/sustainability-and-resource-productivity/our-insights/how-technology-is-reshaping-supply-and-demand-for-natural-resources>

Informe “El cambio hacia una España innovadora. El impulso de las multinacionales” (IESE Business School y Fundación I+E Innovación España)

<http://fundacionimase.com/actividad-ie/otros-eventos/presentacion-informe-iese-el-cambio-hacia-una-espana-innovadora-el-impulso-de-las-multinacionales/>

Informe “Digital Transformation: Are chemical enterprises ready?” (Deloitte)

<https://www2.deloitte.com/global/en/pages/about-deloitte/articles/deloitte-global-report-on-digital-adoption.html>

Informe “The New Delivery Reality: Achieving High Performance in the Post and Parcel Industry” (Accenture)

<https://newsroom.accenture.com/news/venture-capitalists-and-agile-start-ups-pumping-billions-into-disrupting-traditional-postal-delivery-services-accenture-report-finds.htm>

Informe “La Sociedad de la Información en España 2016” (Fundación Telefónica)

http://www.fundaciontelefonica.com/artes_cultura/publicaciones-listado/pagina-item-publicaciones/itempubli/558/

Informe “Valuing Personal Data and Rebuilding Trust” (World Economic Forum)

<https://www.weforum.org/whitepapers/valuing-personal-data-and-rebuilding-trust>

Estudio InfoAdex de la Inversión Publicitaria en España 2017 (InfoAdex)

<http://infoadex.factoriadigitalpremium.es/infoadex3/blog/news/presentacion-del-estudio-infoadex-de-la-inversion-publicitaria-en-espana-2017>

II Estudio de Audio Online (IAB Spain y nPeople)

http://iabspain.es/wp-content/uploads/20170221_estudioaudioonline_vcorta.pdf

The Most Innovative Companies of 2017 (Fast Company)

<https://www.fastcompany.com/most-innovative-companies/2017>

2º Estudio en España sobre Transformación digital en Recursos Humanos (Incipy e Inesdi)

<http://www.incipy.com/presentacion-2-estudio-transformacion-digital-en-recursos-humanos/>

2017 Thales Data Threat Report. Trends in Encryption and Data Security (Thales y 451 Research)

<https://www.thalesgroup.com/en/netherlands/press-release/2017-thales-data-threat-report-security-spending-decisions-leave-sensitive>

Informe “Key Figures on Europe — 2016 edition” (Eurostat)

<http://ec.europa.eu/eurostat/web/products-statistical-books/-/KS-EI-16-001>

Informe “Innovation for the Earth. Harnessing technological breakthroughs for people and the planet” (PwC)

<https://www.pwc.co.uk/innovationforearth>

Informe “Global technology IPO Review: Full-year and Q4 2016” (PwC)

<http://press.pwc.com/News-releases/ALL/global-tech-ipos-in-2016-fell-to-their-lowest-level-this-decade/s/cb393180-7f68-4df7-9fbc-c0d0a3b26cd0+>

Informe de Evolución y Perspectivas de eCommerce 2017 (Observatorio eCommerce, EY y Atento)

<http://observatorioecommerce.com/impulso-ecommerce-2017/>

Informe “Empleo en IT 2017. Profesiones con futuro” (Deloitte e Infoempleo Research)

<http://www.infoempleo.com/empleo-it/>

Informe “20 years inside the mind of the CEO... What’s next?” (PwC)

<http://www.pwc.com/gx/en/ceo-agenda/ceosurvey/2017/es>

Informe “Shaping the Future of Retail for Consumer Industries” (World Economic Forum)

<https://www.weforum.org/reports/shaping-the-future-of-retail-for-consumer-industries>

Marketing Digital y las Pymes. Qué uso le dan las pymes a las nuevas tecnologías en sus negocios (QDQ media)

<https://www.qdqmedia.com/blog/infografia-2017-marketing-pymes/>

Informe “Work in progress. Towards a leaner, smarter public-sector workforce” (Reform)

<http://www.reform.uk/publication/work-in-progress/>

Informe “Smart move: technologies make their mark on public service” (Accenture Consulting)

<https://newsroom.accenture.com/news/public-sector-agencies-must-adopt-emerging-technologies-like-machine-learning-and-artificial-intelligence-to-effectively-compete-for-talent-accenture-report-finds.htm>

Informe “Clicking Clean. Who is winning the race to build a green internet?” (Greenpeace)

<http://www.greenpeace.org/international/en/publications/Campaign-reports/Climate-Reports/clicking-clean-2017/>

Informe “Transformation: Delivering and Sustaining Breakthrough Performance” (BCG)

<http://www.bcg.com/d/press/31january2017-digital-transformation-opportunities-ebook-143809>

Informe “Making the Digital Connection: Why Physical Retail Stores Need a Reboot” (Capgemini Consulting)

<https://www.capgemini.com/news/future-of-bricks-and-mortar-stores-in-question-as-a-third-of-consumers-would-rather-wash-the>

The Little Data Book on Information Communication and Technology 2017 (The World Bank Group y UIT)

<http://data.worldbank.org/products/data-books/little-data-book-on-info-communication-tech>

Informe “Tendencias en el sector Media” (ICEMD)

<http://www.icemd.com/digital-knowledge/estudios/tendencias-en-el-sector-media/>

4. Eventos

Transferencia de Tecnología (CESEAND-EEN)

21 September 2017	5th Cluster Matchmaking Conference Brokerage Event - Stuttgart (Denmark)
8 September 2017	Tecnosalud Brokerage Event Brokerage Event - Lima (Peru)
27 July 2017	InnoSport 2017 Brokerage Event Brokerage Event - Győr (Hungary)
23 June 2017	E² Tech4Cities 2017 – Energy & Efficiency Technologies for cities Brokerage event Brokerage Event - Brussels (Belgium)
21 June 2017	EuroNanoForum 2017 - conference and brokerage event Brokerage Event - Valletta (Malta)
21 June 2017	Lëtz Biz Circular Brokerage Event - Luxembourg (Luxembourg)
12 June 2017	EMBEC'17 & NBC'17 Networking Event Brokerage Event - Tampere (Finland)
12 June 2017	Mediterranean Neuroscience 2017 conference and brokerage event

	Brokerage Event - St Julians (Malta)
7 June 2017	<u>chii2017 - Conference and B2B on Hyperspectral Imaging in Industry</u> Brokerage Event - Graz (Austria)
19 May 2017	<u>European Maritime Day matchmaking event</u> Brokerage Event - Poole (United Kingdom)
18 May 2017	<u>Automotive Day 2017, International Brokerage Event in Saarlouis</u> Brokerage Event - Saarlouis (Germany)
17 May 2017	<u>Future of Building 2017 - Conference and b2b Brokerage Event</u> Brokerage Event - Vienna (Austria)
17 May 2017	<u>Technology Forum 2017 Matchmaking Event</u> Brokerage Event - Thessaloniki (Greece)
10 May 2017	<u>Biomedical Partnering Event at the International Conference on Bio-Sensing Technology Lake Garda</u> Brokerage Event - Riva del Garda (Italy)
9 May 2017	<u>Murcia FOOD Brokerage Event 2017</u> Brokerage Event - Murcia (Spain)
9 May 2017	<u>EEN Brokerage Event at ICT Spring 2017</u> Brokerage Event - Luxembourg (Luxembourg)
9 May 2017	<u>Biomedica Brokerage Event 2017</u> Brokerage Event - Eindhoven (Netherlands)
26 April 2017	<u>conHIT Business Meetings 2017</u> Brokerage Event - Berlin (Germany)
25 April 2017	<u>4th International B2B Software Days - The Future of Digital Business</u> Brokerage Event - Vienna (Austria)
25 April 2017	<u>Technology Cooperation Days, Brokerage Event at Hannover Messe 2017</u>

	Brokerage Event - Hannover (Germany)
24 April 2017	<u>EEN Brokerage Event during Hannover Messe 2017</u> Brokerage Event - Hanover (Germany)
11 April 2017	<u>Virtual Reality World Congress</u> Brokerage Event - Bristol (United Kingdom)
5 April 2017	<u>IoTMatch at SidO 2017 - Brokerage event for the IoT industries at "SidO" (The IoT Show) in Lyon, France</u> Brokerage Event - Lyon (France)
5 April 2017	<u>International b2b matchmaking at Ocean Business 2017 (in assoc. with Maritime & Defence Dual-Use conference)</u> Brokerage Event - Southampton (United Kingdom)
29 March 2017	<u>"Smarfood: Trazabilidad y Big Data en la cadena de valor del sector agroalimentario"</u> Brokerage Event: Seville (Spain)
30 March 2017	<u>Brokerage Event: Advanced Manufacturing in EUREKA</u> Brokerage Event - Brussels (Belgium)
22 March 2017	<u>Railways Brokerage Event 2017</u> Brokerage Event - Lille (France)
22 March 2017	<u>Seanergy : brokerage event on Marine Renewable Energies</u> Brokerage Event - Le Havre (France)
22 March 2017	<u>LAVAL VIRTUAL Rendez-vous Business: meetings in virtual and augmented reality</u> Brokerage Event - Laval (France)
20 March 2017	<u>Future Match ICT brokerage event at CeBIT 2017 (world's largest computer fair)</u> Brokerage Event - Hannover (Germany)

Horizonte2020, Cooperación Internacional, Workshops, Congresos

[19 - 21 April - International Drone Expo \(Tokyo, Japan\)](#)

[22-25 Mayo - Misión Tecnológica en el sector de las Tecnologías de la Información a Malasia y Singapur, para participar en BroadcastAsia, CommunicAsia, EnterpriseIT 2017 \(plazas limitadas\)](#)

[6-9 June - Internet of Things for Active and Assisted Living \(IoTAAL\) – Workshop at IEEE GlOT Summit 2017 \(Geneva, Switzerland\)](#)

[7-9 June - Congreso Anual de EBAN \(European Business Angels Network\) \(Málaga, Spain\)](#)

[8-9 Junio - Hi!Drone Technology \(Málaga, Spain\)](#)

[29 June - 1 July The Third International Conference on Information Security and Cyber Forensics \(INFOSEC2017\) \(Bratislava, Slovakia\)](#)

[21-22 Septiembre - Expodronica \(Zaragoza, Spain\)](#)

[Más eventos H2020 sector TIC y europeos en https://ec.europa.eu/digital-single-market/en/newsroom-agenda/schedule/events/all](https://ec.europa.eu/digital-single-market/en/newsroom-agenda/schedule/events/all)

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

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Research & Development Request

H2020-ICT-05-2017: Internet of Things (IoT) end users and experts in supercomputing, IoT software and programming sought

Summary

A Spanish SME specialised in ICT solutions is preparing a proposal for the ICT-05-2017 call (Customised and low energy computing) aimed to create secure intelligent services in the Internet of Things (IoT) capable of automatically optimizing their resources to be energy efficient. IT companies, universities and research centres are sought to perform tasks in supercomputing, IoT, programming, integrated drive electronics and low-power programming. IoT end users are also sought.

Creation Date 22 February 2017
Expiration Date 24 February 2018
Reference RDES20170222001
Profile link

Details

Description

The project's mission is to aid software engineers in creating intelligent services in the Internet of Things (IoT) capable to automatically optimize their resources to be energy efficient and helping them to include in the solutions secure code.

The coordinator's vision in this research is to improve energy efficiency of computer systems by allowing the programming of self-optimizing software. This includes energy-awareness in the software and the involvement of the application in the resource allocation decision and in the scheduling. Their approach forms a stronger link between applications and the runtime system in form of an information flow used to steer the resources. This increases the self-awareness of software and is required for the research community to take the next step into energy efficient computing. Parameters of the executions like throughput, latency, energy consumption, temperature, reliability etc., can be monitored to exploit carefully the available resources. In this context, the concept of self-awareness will help to optimize the hardware resources in every situation. With this awareness, the system has a set point according to which it can be adapted to reach the globally most optimal setting. Resources can be allocated/deallocated to match the energy and performance goals.

To address the security aspect, the researchers must suppose that the solution will coexist with the risks involved in all these technological advances and the threats. So any industrial project will have to consider, in its own design, the risk associated with Industrial cybersecurity.

Programme framework conditions: Collaborative project, single stage evaluation.

Deadline for expressions of interest: 10/03/17

Call deadline: 25/04/17

Project duration: 3 years

The Spanish SME is looking for companies, universities and research centres with the suitable expertise for the following roles: Supercomputing, IoT software, IDE (Integrated Drive

Electronics) creators, programming languages, experts on defensive programming, experts on low-power programming and IoT end users.

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The coordinator is looking for industrial and research partners able to perform the following roles:

- Supercomputing experts.
- IoT (Internet of Things) software experts.
- IDE (Integrated Drive Electronics) creators
- Programming languages experts
- Experts on defensive programming
- Low-power programming experts
- IoT end users

Type and Size of Partner Sought

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

Research & Development Request

[EUREKA or Eurostars2] Looking for European partners to employ developed metal foam technology into energy and bio material industry

Summary

A Korean university has developed micro & nano sized porous metal foam for energy cells. Titanium and Nickel foam that employed this technology provide better performance than conventional carbon electrode. The developed metal foam can be applied in various products such as in energy cell electrode and bio material. The university already formed a Korean consortium and is looking for a European partner for its commercialization. EUREKA or EUROSTAR2 programme is considered for application in 2017

Creation Date 26 December 2016

Expiration Date 09 February 2018

Reference RDKR20161226001

Profile link

Details

Description

Metal foam is a cellular structure consisting of a solid metal with uniform pores. The defining characteristic of metal foam is a high porosity; that makes metal foam have wide surface area. Because of its lightweight and porosity, the metal foam is used in many industries as lightweight, functional material.

A research team in a Korean university has developed micro & nano-sized porous metal foam that can be applied in energy sector.

They are currently producing small amount of 5cm X 5cm sized Titanium metal foam and they plan to develop large sized products for a mass production. This metal foam can be used as material for electrode of lithium secondary battery, gas diffusion layer of fuel cells, or for electrode of dye-sensitized solar cell.

The university can also develop different kinds of metal foam such as nano-Cu foam, nano-Ni foam and Nano-Al foam with its own process. Their core technology is that the pore size and shape can be controlled.

By looking at the potential growth in the metal foam market, the inventor of this technology has established his own company for commercialization of his products. Aside from the development of metal foam for commercialization that can be used in various areas of energy electrode, the inventor is also interested in developing metal foam as biomedical material using magnesium and iron metal foams.

These metal foams will be used in making screws and stent which will be inserted to human body. Uniform sized multiple pores will help bone cells to enter the pores and grow, thus reducing stress obscuring phenomenon and inducing successful osseointegration.

The inventor wishes to find European companies with expertise in the field of energy electrode and bio material for the research cooperation.
The metal foam development project is expected to be completed in 3 years including commercialization. EUREKA or Eurostar2 project is considered targeting August 2017.
Therefore, deadline of EOIs(expressions of interest) for this profile will be at the latest end of June 2017.

Network Contact

Issuing Partner

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: Company, research institute, University
- Specific area of activity of the partner: A partner from Energy(fuel cell, lithium ion battery cell) industry or biomaterial industry
- Task to be performed: research and develop metal foam together with the Korean company for application and commercialization of the development result in Europe.

Type and Size of Partner Sought

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

Research & Development Request

H2020: Partners sought for the delivery and testing of 'ICT e-learning & Training' in low and middle income countries

Summary

A UK SME providing ICT courses in community learning centres is planning a project to investigate, develop and implement an adaptable e-learning support system for integrating and managing learning objects for universities in the sub-Saharan region with the open source learning platform Moodle. Partners are sought for ICT-39-2016-2017 to apply the system in universities, provide training, manage and analyse feedback and test software modules designed to adapt and reconfigure the Moodle system.

Creation Date 09 February 2017
Expiration Date 10 February 2018
Reference RDUK20170209001
Profile link

Details

Description

A North West UK based SME providing personalised and flexible ICT courses for learners in community learning centres in collaboration with colleges and universities is looking to submit a proposal for the ICT-39-2016-2017 topic 'International partnership building in low and middle income countries'. The project focusses on innovative enhanced learning components for e-learning support with as an example learning content management system for universities in the sub-Saharan region. It investigates, develops and implements component-based software modules that would enhance learning and teaching for universities in the region.

The adaptable e-learning support system is designed and developed with a view to achieving the benefits of high-quality teaching and high-quality learning and training outcomes. It is a reliable, reusable, evolvable and maintainable learning support software system. The project will involve integrating and managing learning objects in the Moodle online content management system for enhanced learning and evaluation of learners; as well as testing innovative software tools to support the integration and incorporation of learning objects in the Moodle environment among other aspects.

The system addresses:

- The issue of 'learner congestion' in one location by enabling the delivery of courses simultaneously in different locations to more students and;
- The challenges of 'efficient evaluation of students on courses with high enrolments' by enabling teachers to post and evaluate courses assignments and exams online, thus efficiently reaching students in different locations on a university campus.

Current participants in project:

- The UK based SME active in adaptable e-learning; specialist in bid writing and project adviser and linked to the College of Technology at University of Buea, Cameroon;
- The computer science department of a major North West UK based university; experts in course content development, accreditation, design as well as development of identified software modules and content to adapt existing Moodle learning content management environment;

The SME has a team of specialised staff in e-learning support systems and provides personalised tools and an innovative learning approach for organisations and individuals. It delivers learning support where and when needed. With its adaptable e-learning system, the company provides flexibility to learners, especially at community learning centres, colleges and remote regions. Currently, learners can develop specialised knowledge on various ICT subjects and achieve certification and accreditation for a wide range of courses. For this reason, the proposed system will accommodate ICT courses initially. However, it is flexible and adaptable to accommodate courses in others domains in the future.

To complement the consortium the UK SME is looking for the following:

- Partners to test the system (particularly, in other universities in the sub-Saharan region);
- Partners to test software modules and components designed for the adaptation and reconfiguration of the Moodle environment;
- Partners to provide human resources training on relevant content management system (e. g. Moodle);
- Trainers of teachers, lecturers and facilitators on the use and management of courses with the proposed system;
- Partners to manage and analyse feedback for the test-run and implementation of the proposed system (with a few of future developments);

Duration of this project is 18 months; the anticipated budget between EUR 1 and 2 million depending on the final consortium.

EOI Deadline: 17th March 2017

Call Deadline: 25th April 2017

Network Contact

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Open for EOI : **No**

Partner Sought

Type and Role of Partner Sought

To complement the consortium the UK SME is looking for the following from either industry or academia:

- Partners to test the system (in other universities in the sub-Saharan region);
- Partners to provide human resources training on relevant content management system (e. g. Moodle);
- Training of teachers, lecturers and facilitator on the use and management of courses with the proposed system;
- Managing and analysing comments and feedback, of the test-run/implementation of the proposed system, for future development;
- Testing software modules/components designed for adapting / reconfigure the Moodle system for the College of Technology / University of Buea and the sub-Saharan region.

Type and Size of Partner Sought

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

Research & Development Request

H2020: Partners sought by UK based SME for the delivery of a 'Personal Health Record System' in low and middle income countries

Summary

A UK SME providing ICT courses in community learning centres is planning a project to investigate, design and implement a secure network-based medical record system for Cameroon government hospitals and health centres by adapting the Open Medical Record System (OpenMRS). Partners are sought for ICT-39-2016-2017 to test the system in other countries, provide training on OpenMRS with 'plug-in modules', test software modules designed to adapt and reconfigure OpenMRS and manage and analyse feedback.

Creation Date 21 February 2017
Expiration Date 24 February 2018
Reference RDUK20170220001
Profile link

Details

Description

A North West UK based SME providing personalised and flexible ICT courses for learners in community learning centres in collaboration with colleges and universities is looking to submit a proposal for the ICT-39-2016-2017 topic 'International partnership building in low and middle income countries'. The project focusses on the delivery of a 'Personal Health Record System' in the sub-Saharan region. It will investigate, design and implement a secure network-based medical record system by adapting the Open Medical Record System (OpenMRS) for Cameroon government hospitals, health centres and clinics and other healthcare providers in the region.

This would involve electronically managing and analysing patient records and sharing data with practitioners via clinical user friendly interfaces. The healthcare and management system would be accessible within districts and divisions of a region as well as across regions within the country. Issues to be investigated include:

- Local government confidentiality and access to patient records;
- Ability of the national health system to arrest epidemic outbreaks;
- Customisation, development and implementation of OpenMRS.

These will address secure patient records management and distribution for Cameroon in a LAN / WAN environment. The pilot system would be in Cameroon. One of the partners of the project would be in charge of the evaluation of the pilot.

The open source medical record system would be adapted to input patient data both, for and

about patients, as well as data from doctors. This by using a tablet and mobile phone interface with the aim to enable new and existing records to be shared and distributed securely and ethically.

The stakeholders of the system include:

- End-users such as government hospitals and health centres, Ministry of Health, Medical Order, communications companies and universities in the central African region such as in Cameroon (e. g. Buea, Bamenda and Nchange), Gabon, Democratic Republic of the Congo, Ghana and Nigeria;
- European partners.

The goals and objectives of this project are to identify patients at high-risk in various regions in case of an outbreak; and ensure they get the treatment they need quickly. Further, to develop algorithms to predict the number of days a patient will spend in hospital in a year.

Current participants in this project:

- UK based SME active in adaptable e-learning; specialist in bid writing and project adviser; linked to the University of Nchange and University of Buea, both in Cameroon;
- Computer science department of a major North West UK based university with expertise in design / development of identified software modules and content to adapt existing OpenMRS.

The SME has a team of specialised staff providing learning and training support; incl. ICT service provision in remote regions by partnering with dedicated broadband services companies in the UK and collaborating with VSAT (satellite internet) system providers for remote regions.

To complement the consortium the UK SME is looking for partners to:

- Test the system in the sub-Saharan region;
- Provide human resources and training on OpenMRS with 'plug-in modules' developed and adapted for patient record management in the sub-Saharan region;
- Train facilitators on the use and management of patient records with the proposed system;
- Manage and analyse feedback for the test-run and implementation of the proposed system (with a view of future developments);
- Test software modules and components designed for the adaptation and reconfiguration of the OpenMRS in the sub-Saharan region.

Project duration is 18 months (generating innovation modules - 6 months; test-run / assessment & evaluation of the system - 6 months; feedback analysis and updates - 6 months). The anticipated budget is between EUR 1 and 2 million depending on the final composition of the consortium.

EOI Deadline: 24th March 2017

Call Deadline: 25th April 2017

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Open for EOI : **Yes**

Research & Development Request

H2020-ICT-23-2017: Looking for SME to develop on line methodology for training

Summary

A Spanish research organization is preparing a new proposal H2020-ICT-23 "Interfaces for accessibility". The objective of the project is to make use of state-of-art simulation, artificial intelligence, virtual reality and data science methodologies to retrieve accurate actor and behavioural models to create new learning environments for users with cognitive disabilities as accessible massive on line courses (MOOC) and serious games. A developer SME of on line methodology for training is sought.

Creation Date 16 February 2017
Expiration Date 20 February 2018
Reference RDES20170216001
Profile link

Details

Description

The concept of cognitive disabilities is extremely broad, and not always well-defined. In loose terms, a person with a cognitive disability has greater difficulty with one or more types of mental tasks than the average person.

A great deal of web content cannot be made accessible to individuals with profound cognitive disabilities, no matter how hard the developer tries. Some content will always be too complex for certain audiences. This is unavoidable. Nevertheless, there are still some things that designers can do to increase the accessibility of web content to people with less severe cognitive disabilities.

There are two ways to classify cognitive disabilities: by functional disability or by clinical disability. Clinical diagnoses of cognitive disabilities include autism, Down Syndrome, traumatic brain injury (TBI), and even dementia. Less severe cognitive conditions include attention deficit disorder (ADD), dyslexia (difficulty reading), dyscalculia (difficulty with math), and learning disabilities in general. Clinical diagnoses may be useful from a medical perspective for treatment, but for the purposes of web accessibility, classifying cognitive disabilities by functional disability is more useful. Functional disabilities ignore the medical or behavioral causes of the disability and instead focus on the resulting abilities and challenges. Some of the main categories of functional cognitive disabilities include deficits or difficulties with Memory, Problem-solving, Visual comprehension.

The aim of the project is to develop learning methodologies, platforms and serious games for users with cognitive disabilities based in information and communications technologies as simulation, artificial intelligence, virtual reality and data science.

The coordinator is looking for an SME partner that develops on line methodology for training, with experience in analyse content and data in order to optimize training material. A market

strategy for results of the project will be developed.

Funding programme: ICT-23-2017: Interfaces for accessibility.

Deadline for the call: 25 April 2017

Expressions are welcome before the 28th of February.

Duration of the project: 36 months

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Open for EOI : **No**

Partner Sought

Type and Role of Partner Sought

The coordinator is seeking a SME, expert in developing and analyzing the content for on-line courses, that has a methodology for obtaining data from the e-learning platform and access to a platform where the resulting training material could be uploaded and could develop a market strategy for them.

Type and Size of Partner Sought

SME 11-50,SME <10

Research & Development Request

INTERREG Europe Third Call: Partners with expertise in the field of health economy, e-health and AAL especially from Estonia, Poland and other countries in Eastern Europe sought

Summary

A German organisation active in metropolitan collaboration is preparing a proposal in the third call of INTERREG Europe in the thematic field of e-health. The projects objective is to revise and to improve the implementation of policy instruments such as the ERDF, the ESF and the regions' RIS3-strategies as well of innovation chains. The partners sought should be public, coming from East Europe and need to have know-how in health economy, e-health and its technological aspects.

Creation Date 09 February 2017
Expiration Date 09 February 2018
Reference RDDE20170209001
Profile link

Details

Description

The project background is facing the challenges in health and social care in Europe.

- The population structure in Europe is aging rapidly. This is a common challenge for all EU regions, but at the same time it means an opportunity for growth and jobs.
- Due to the special needs of a growing number of (chronically) ill patients and elderly people in Europe, the costs but also the management requirements in the social and health care systems are increasing.
- (Chronically) ill and elderly people are at risk of lacking or insufficient medical treatment due to limited access to medical care services and in particular to specialist practices in structurally underdeveloped areas in Europe, i.e. in parts of Lower Saxony (Germany), characterized by sparsely populated rural regions.

Project idea:

Taking these facts under consideration, there is broad agreement that the development of the use of ICT in the social and health care may be crucial in order to ensure equal access to social and health services. Therefore, new kinds of approaches to promote and maintain the well-being of aging people will be necessary to reduce the costs of social and health care and to produce new innovative products and services supported by ICT.

Overall objective is:

a) to improve the implementation of regional development policies and programs, in particular programs for the investment in growth and jobs and, where relevant, European Territorial Cooperation Programs, that support the delivery of innovation by players in regional innovation chains in areas of "smart specialization" and innovation opportunities

- b) to significantly improve the RIS3 implementation and governance and the delivery of the structural funds (ESF, ERDF etc.) within the partner regions, and
- c) In the long term to increase the health and well-being of elderly people as a consequence of more effective (ICT-based) care services in the cooperating regions.

One condition for achieve these objectives will be an effective policy learning process by performing regional analysis, international thematic workshops and national high-level policy learning events in the consortium partner regions (In order to simplify the policy learning process, it is proposed to focus on the health economy sector and the health-related ICT sector as smart specialisation sectors when developing project ideas and action plans in the partner regions). An other condition will be to improve the effectiveness and performance of innovation chains in the smart specialization sectors focused by the project

So far the participating countries are: Germany, Netherlands, Finland, Portugal and Spain. The German organisation is looking for partners who want to be actively involved in the project development. The partners are expected to analyse the national and regional needs on grounds of the project idea and to win a local / regional authority supporting the project.

EOI Deadline: 01.03.2017

Expected duration: minimum of 2 years

Expected budget: tbc. (Based on the INTERREG IVC experience).

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought:

research and development institutions, universities, public organisations, regional and local clusters, regional and local public authorities, regional and local governments

The German organisation is also looking for scientific staff with expertise in the technological aspects of e-health, digitalisation, new innovations in health economy (e.g. research institutes, academia) and ambient assistant living (AAL).

Role and tasks to be performed by the partner:

The partner will be actively involved in the project and will be part of the project development (in terms of content). The project partner will work independently on variations of the subject e-Health / AAL in relation to their own national and regional needs and should implement the proposed innovation model as far as possible.

Research & Development Request

H2020 - SME Instrument- Phase 1: looking for public authorities dealing with water/flooding control

Summary

A SME based in Italy has developed an advanced land monitoring system: through the installation of meteo stations and detectors, which reveal in real time the hydrometric regime of the watercourse under investigation, the system elaborates data and gives the necessary information for water management and evaluation of risks to the user. They look for research collaborations for a H2020 SME Inst "Boosting the potential of small businesses in the areas of climate action, environment, resources".

Creation Date 02 February 2017
Expiration Date 23 February 2018
Reference RDIT20170202002
Profile link

Details

Description

The SME (a cooperative company of engineers, social scientists and digital artisans) offers ICT services related to the rural and agrarian world and to the environmental monitoring. It has developed an advanced land monitoring system that includes the acquisition of meteorological, hydraulic and soil information for the purpose of study and alert. Through the installation of meteo stations and a series of detectors, which reveal in real time the hydrometric regime of the watercourse under investigation, this system elaborates data and gives to the user, on his own PC, Smartphone or Tablet, the necessary information for water management and evaluation of potential risk situations.

The system consists of:

- Meteo stations that measure and send data to the web platform where the processing software is located;
- Level sensors to know the hydrometric regime of the watercourse and to carry out water balance studies;
- Cameras for visual supervision of certain potentially dangerous situations.

Each user has the opportunity to access, through a personal account, in a reserved web area where he can check in real time the received data from detectors and he can be notified with a sms/e-mail if any predetermined critical conditions have been reached.

The company is planning to submit a SME instrument project proposal (Phase 1) and they want to start a collaboration with local authorities, associations and municipalities dealing with water management and flood risks. They are also interested in collaborations with Universities and research centers.

Call: SMEInst-11-2016-2017: Boosting the potential of small businesses in the areas of climate action, environment, resource efficiency and raw materials

Call deadline: 03/05/2017

Expressions of Interest deadline: 15/04/2017

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

A) Local authorities, associations and municipalities dealing with water management and flood risks. Their role would be to become stakeholders and potential end-users of the technology.

B) Universities and research centers that could become partners in the project.

Technology Offer

Compact solar collector with linear Fresnel concentrator and triple movement.

Summary

A Spanish research group in renewable energies has patented a compact solar collector with a linear Fresnel concentrator and triple movement for collecting and concentrating solar energy over a heat transfer fluid, which carries it to where it can be used providing a new thermal and electrical technology for the building industry. Companies operating in the energy and building sectors are sought to develop applications of the described technology under license agreements.

Creation Date 31 January 2017
Expiration Date 03 February 2018
Reference TOES20170131001
Profile link

Details

Description

In 2014, 54% of the world's population lived in urban areas and collectively consumed 75% of the world's resources. By 2050, 66% of the world's population is expected to be urban, so it is essential to minimize energy consumption in the urban environment.

In the European Union, the building sector represents one of the largest consumers of energy. The EU therefore promotes a series of guidelines to encourage the use of energy alternatives for buildings.

There are several renewable energy systems that can be used in the building sector for the production of electricity and heat. Solar thermal and photovoltaic systems are currently the most widely used, especially in regions where annual solar radiation is high, as is the case in southern European countries.

However, in the configurations of such systems, the primary concentrator and the secondary concentrator lack movement, so a large area is needed for its implantation to be effective in solar uptake. In addition, because of their lack of movement, there is a loss of energy due to the fact that, during a large part of the solar capture period, the solar beams do not strike the ends of the absorber tube. In addition, such lack of movement causes the secondary concentrator to be arranged at a certain distance from the primary concentrator, which limits the installation of other concentrators.

Researchers at a Spanish university working in renewal energies have developed a compact solar collector with a linear Fresnel concentrator and triple movement, comprising a fixed structural system, a mobile structural system that can roll in the North-South direction pivoting with respect to a primary axis in the East-West direction, a primary concentrator system composed of a number of rows of mirrors that can flip in the East-West direction pivoting with

respect to a reflector axis in the North-South direction and a secondary concentrator system that can roll in the direction North-South pivoting with respect to a secondary axis in the East-West direction. The secondary concentrator comprises an absorber tube(s) through which a heat transfer fluid flows and collects the energy projected by the mirrors and transports it.

The present invention is applicable in those sectors in which equipment for the generation of thermal energy from radiation is manufactured or used, such as in the building sector, where hot water, heating and/or cooling and electrical energy are simultaneously required. Due to its high efficiency, it is also applicable to water purification and desalination.

The researchers would like to reach license agreements with companies operating in the energy and building sectors to develop applications of the described technology.

The university is a public institution oriented to education, research and technology transfer. However, it is not one of its capacities or goals to manufacture industrial products or distribute them commercially. Therefore, the university seeks to sign a patent licence agreement for a company to manufacture and commercialize the above-described technology.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Companies that operate in those sectors which manufacture or use equipment for the generation of solar thermal energy. For instance, suitable partners could be construction related companies for those projects which require at the same time electricity, hot water, heating and cooling. The high efficiency of this technology makes it also suitable for water purification and

desalination.

Task to be performed: Applications of the described invention.

Type and Size of Partner Sought

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

Technology Offer

A Korean SME is seeking a commercial and technical partner for their customized network security equipment and servers

Summary

A Korean company specialized in developing customized network security equipment and servers offers its own developed network security equipment, server switches and all flash media servers. The products are customer-oriented, cost effective and highly reliable. The company has experience exporting products to U.S.A, Taiwan and Finland. To extend its business area, it is looking for partners overseas available for commercial agreement with technical assistance as well as technical cooperation.

Creation Date 23 January 2017
Expiration Date 17 February 2018
Reference TOKR20170123001
Profile link

Details

Description

Companies that are sensitive to their confidential information and newly developed technologies should have reliable network security equipment to protect valuable information by taking good care of their network infrastructures from today's hostile network environment.

Unfortunately, not many companies properly test their network security equipment except for big companies or public organizations. When it comes to selecting network security devices, enterprise networks had to choose either a performance-first or security-first posture.

To solve such a problem, this Korean SME has developed the technology that could satisfy companies' requests for their customized security equipment. The company specializes in developing customized network security equipment and servers and it has had professional experience in this field since its establishment in 2001.

More detailed information for each product is as follows.

1) network security equipment

- the company can develop and supply hardware for various environments where network security applications are embedded such as UTM(unified threat management), web firewall, IPS(intrusion prevention system)/IDS(intrusion detection system), DDoS(distribute denial of service), and etc.
- multiple products lines can be provided corresponding to customers' request

2) server switch

- provides high-end computing environments based on diverse applications

- offers high-capacity switching performance through a server switch platform
- expertise in developing hardware for SDN (software defined forwarding) /NFV(network functions virtualization)

3) all flash media server

- superior performance using SSD(solid state drive) as compared to HDD(hard disk drive)-based storage
- easy maintenance as a result of using 2 individual nodes per system and a sliding-type coupling structure
- provides high-density storage (maximum of 32 Tera byte, 17 SSDs per node)

The company is interested in cooperating with SI(system integration)/NI(Network integration) companies, security software and applications companies or SDN/NFV application companies that could play a role as a sales of the company's products with technical assistance. More exactly, the partner company should be able to provide software and supply network to its local customers. Furthermore, the company seeks for collaboration opportunity to jointly further develop a new type of product by integrating the company's hardware technology with the partner's software technology. After the development, both entities can utilize their geographical advantages to promote their developed technology and the end product.

Other types of technical cooperation are also feasible. One of them is wishes to develop an advanced hardware together with partner companies in the similar business fields

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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: local SI/NI companies, security software and applications companies, SDN/NFV applications companies
- Task to be performed: operating sales, installation and after-sales service in local market with commercial agreement with technical assistance.
Developing a new product or advanced hardware technology with partner companies under the technical cooperation agreement.

Technology Offer

A Korean company seeks a partner on their developed wireless telecommunication equipment

Summary

A Korean company as a developer and supplier of professional wireless equipment such as active DAS (direct-attached storage), RF (radio frequency) repeaters and wireless access point (AP) for Korean telecommunication companies is looking for a partner who is jointly able to pursue commercial and technical cooperation. Desirable partners are those who have such customers as telecom companies, Wi-Fi hotspot operators, base station manufacturer, or facility service companies in Europe or U.S.A.

Creation Date 23 January 2017
Expiration Date 20 February 2018
Reference TOKR20170123002
Profile link

Details

Description

A Korean company has focused on domestic telecommunication market for several years. In 1998 and 1999, the company developed and succeeded in localization of fibre optic transceivers and echo cancellers for the first time in South Korea. After that, to extend its business to mobile communication, the company started to develop CDMA (code division multiple access) repeaters. Since then, the company has provided telecommunication equipment to domestic and overseas operators and companies in need. Wireless mobile service is moving to LTE (long-term evolution) because massive multi-media service can be supported under this environment. Recently, service multi-band repeaters are essential and required for service environment in order for operators to reduce construction cost as well as maintenance cost.

The company's technology is applied to DAS, AP, and RF repeaters. Each technology is briefly described as follows.

- 1) Neutral DAS for multi-carrier
 - supports multi-operator and multi-band
 - mount cell switching technology based on load balancing concept
 - has energy saving function, self-diagnostic management function
 - Ethernet support (Wi-Fi AP interface)
- 2) In-building optic DAS for single carrier
 - Light weight, small form factor, low cost DAS through SoC (system on chip) technology
 - Reduces construction and maintenance costs
 - Increases 20% of compression rate through digital optical transmission compression technique
- 3) Premium giga Wi-Fi AP

- Enables telecom operators to provide tailored services to customers by providing device position information and various Wi-Fi statistical information
- 8 telecom operators can work together by interlinking with multiple RADIUSs (remote authentication dial-in user services)
- High density traffic control capacity is significantly improved by applying market-first 802.11ac Wave2 (MU-MIMO(Multi-user-multiple-input and multiple-output))

4) Delay free repeater

- Provides high data throughput solving problems of ISI (inter symbol interference) and ICI (inter carrier interference)
- Greater coverage: 7 times wider than other repeaters
- Reduces installation and maintenance cost through simple repeater cell-planning

The company is open to any kinds of companies who are interested in commercially cooperating with each other on wireless equipment such as DAS, AP, and RF repeaters under commercial agreement with technical assistance. Desirable partners would be DAS neutral host, companies dealing with telecommunication equipment, telecom companies, Wi-Fi hotspot operators, base station manufacturers or facility service companies who are dealing with wireless communications equipment. The partner company should be able to provide a localized high-quality transport network to its local customers.

Also, the company is looking for a partner who could jointly develop a new type of product by integrating the company's hardware technology with the partner's software technology. The developed product can be introduced to both Korean and European side. In addition, with partner companies in similar fields, the company wishes to develop an advanced hardware by contracting technical cooperation agreement.

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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: DAS neutral host, companies dealing with telecommunication equipment, telecom companies, Wi-Fi hotspot operators, base station manufacturers or facility service companies who are dealing with wireless communications equipment.
- Task to be performed: operating sales, installation and after-sales service in local market with commercial agreement with technical assistance. Developing a new product or advanced hardware technology with partner companies under the technical cooperation agreement.

Technology Offer

A Korean company offers high-performance server storage applied with DRAM (Dynamic Random Access Memory) based hybrid semiconductor system

Summary

A Korean company has developed high-performance server storage applied with proprietary DRAM(Dynamic Random Access Memory) based hybrid semiconductor system. This product both satisfies data processing speed and large storage space which is a basic requirement in the era of big data, big cloud, internet of things, and security traffic solution. They are looking for European high performance server/storage company for technical as well as commercial agreement with technical assistance.

Creation Date 08 February 2017
Expiration Date 06 March 2018
Reference TOKR20170208001
Profile link

Details

Description

Artificial intelligence, internet of things, and virtual reality which are all leading technologies included in the 4th Industrial revolution, are all related to data. Every day, infinite amount of data is sent from various mobile devices and sensors. Therefore, there are high expectations on servers and storages that can process and store data efficiently in this digital era.

Until recently, hybrid storage system which is made with flash memory based SSD(Solid State Drive) was one of the main products in the server-storage market. Last year, 'all-flash storage' which is composed of flash SSD for much faster speed was the product trend. Flash SSD may be fast in reading at first. However, after the repetitive usage, speed and performance rapidly decreases. Thus, need for a new technology that is better than flash SSD has been suggested. The company used its own technology, intelligent data pattern analysis and multi-tier hybrid cash algorithm to overcome limitations of flash SSD. By applying its knowhow and DRAM based SSD technology, the company has developed hybrid type sever storage which has combined advantages of reading/writing performance of RAM(random access memory) SSD and reading performance of flash SSD, bulk storage of HDD, thus satisfying both performance and cost efficiency.

Important data which has frequent reading/writing is sent to DRAM SSD instead of flash SSD. General data which has frequent reading is sent to flash SSD or NVMe(Non-Volatile Memory Express) and cold data is sent to HDD(Hard disk drive) automatically. (Cold data refers to inactive data that is rarely used or accessed)

Compared to global manufacturer's products, the company has improved its performance and

energy efficiency by 500% and 30% respectively. Due to DRAM's property, the product life span is also semi-permanent.

Depending on the purpose, it can be used as either server or storage. Especially, since it is based on semiconductor system, input/output performance has been improved for faster transaction.

It also solves server load problems when there are too many users at the same time. It can be used as transaction accelerating device in database server and bulk storage operating environment for stable improvement of overall system performance.

This product can be used in financial and public institutions which requires high speed and stability for security pattern analysis, real-time transaction and monitoring, credit card payment, and more. It can be also applied in various industries that require fast data processing such as big data analysis or high-performance cloud system, dielectric analysis, VR(virtual reality), 3D map service, IoT, and AI(artificial intelligence)

By cooperating with high-performance server/storage companies, the Korean company wishes to improve its hybrid storage system.

The company is also open for a commercial cooperation with server/storage companies that have strong local sales network and technical support capability.

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: company

Specific area: high-performance server/storage company with local sales network (Having technical background is preferred)

Role: Technical cooperation and commercial agreement with technical assistance

Technology Offer

A Korean company offers energy-efficient and cost-effective optical engines

Summary

A Korean company, an expert in the field of optical communications, has developed a low-cost and energy-efficient optical engine which is optical communication component for transmission of data amongst mass storage devices such as data centers or super computers as well as high-speed interconnection within large display devices. Partners from system and network integration field are sought for commercial agreement with technical assistance and technical cooperation agreement.

Creation Date 17 February 2017
Expiration Date 06 March 2018
Reference TOKR20170217001
Profile link

Details

Description

A Korean company specializes in long-wavelength VCSEL (vertical-cavity surface-emitting laser) and silicon photonics-based single module solutions. Recently, it has developed a low-cost and energy-efficient optical engine for transmission of data amongst mass storage devices such as data centers or super computers as well as high-speed interconnection within large display devices.

This optical engine is based on the company's patent pending technology and it enables lensless design between VCSEL and single mode waveguide (fiber). It consists of 4 channel optical head and a wavelength multiplexer. The optical head consists of 4-channel long-wavelength VCSELs, a quad laser driver, two sub-mounts, a flexible printed circuit board and a metal plate.

Each channel is modulated by either 10Gb/s (gigabit per second) or 25Gb/s line rate. The optical head is directly attached with a wavelength multiplexer. Instead of coupling lenses, the optical engine adopted the spacer (side wall) between optical head and optical waveguide between VCSEL and optical waveguide. This lensless coupling architecture enables simple and low cost manufacturing procedure compared to that of conventional technology. Without any coupling lens, over 40% of coupling efficiency can be achieved.

There are 3 key technologies that were applied in the company's products as follows:

- 1) Silicon photonics technology : optical technology that provides data transmission within a silicon chip using light waves resulting in a significant increase in data transmission speed while decreasing energy consumption and cost by 1/10 of existing technology

- 2) VCSEL technology : semiconductor laser diode that emits light in the vertical direction to the upper surface providing a more energy-efficient and cost-effective solution
- 3) WDM (Wavelength Division Multiplexing) technology : technology that combines multiple channels with different light wavelengths to transmit through a single optic fiber cable.

Preferred partners for cooperation are local system integrators, network integrators or partners with relative connection in the government procurement market.

When the partner company sells the company's products, the company could help the partner by training them with a technical consultancy. It could be provided via Internet or staff visits. In addition to that, the company is seeking a technical partner who is interested in applying the company's technology to their own product for a product improvement.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought : local system integrators, network integrators or partners with relative connections in the government procurement market
- Specific area of activity of the partner : Sale and distribution of optical transceivers with technical service
- Task to be performed : Commercial agreement with technical assistance and technical cooperation

Technology Offer

A fully automated system for monitoring and controlling of water consumption.

Summary

A Macedonian company specialised in engineering and manufacturing of water installations offers a fully automated system for monitoring and controlling of water consumption. The system provides real-time information for optimising water flow, enables different levels of valve control and improves quality of measuring. The integrated cloud features data processing, multi-level functionality and an expandable user interface. Partners for commercial agreement with technical assistance are sought.

Creation Date 27 February 2017
Expiration Date 02 March 2018
Reference TOMK20170227001
Profile link

Details

Description

Increasing the operational efficiency and thus reducing losses of finances and water are among the most relevant transformation priorities of the water and waste-water industries. Overall, there are two types of water supply management systems: (1) basic systems characterised with inability to predict and monitor relevant variables and involving manual or remote reading, and (2) partially automated systems, but not fully adaptable to the user needs. The basic systems suffer from increased possibility for reading mistakes whereas the partially automated ones experience losses due to the lacks of real-time notifications and automated alerts, inability for two-way communication and for fully automated data transmission to the billing system.

The proposed solution is a fully automated system that aims to address the aforementioned shortcomings. It enables advanced real-time monitoring and improves system efficiency. The solution features a smart water meter as a central hardware device and cloud software enabling full automation and integration of the system. The smart meter is an electronic device installed into the water supply network, attached on poles or placed in deep underground pits. The meters are connected to the smart cloud by two-way radio frequency (RF) technology communication enabled by a network of GPRS and transponder devices with a battery capacity of 14 to 25 days respectively. These devices are powered by solar energy, waterproof and have an integrated power adapter.

Besides managing and controlling the smart meters, the software part enables adaptation of the system to the specific needs of the users. It enables monitoring of different variables, data processing involving various calculations, real-time notifications via e-mailing or messaging, and provisioning of automated daily or monthly reports. Moreover, the software allows adding new features to the meters or other elements of the system, adaptation of the levels of sensor sensitivity, adding new sensors and other hardware components and enables seamless automated communicated through the panel for user interface. Additionally, meters from other

manufacturers can be easily integrated, configured or scaled so that can be regulated and controlled by the system as their smart counterparts.

The final users of this innovative solution are the water supply companies and all end consumers of water resources including communities and businesses. The standardised information system that reduces various costs, improved water consumption forecast and optimised water flow are few of the benefits for the end-users. Nevertheless, the domestic market being quite small offers limited possibilities for exploiting the full potential of the solution. Therefore, the company is interested in establishing cooperation with foreign partners who would introduce the solution in their existing product portfolio and thus enable increased revenues and market share for both parties. The potential clients will also experience improved clients' satisfaction due to the improved management controls and reduced impact from variability and human factor on the systems' effectiveness.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought: Companies working in the automation engineering sector offering variety of automation and control systems for the water and waste-water industries.

Role of the partner sought: Interested partners are expected to include the proposed solution in their existing portfolio of products/services under the terms of commercial agreement with technical assistance.

Tasks to be performed: The potential partners should be willing to promote the proposed

solution at their local markets, ensure sales with technical support. The Macedonian company will provide the necessary technical support for installation and maintenance of the solution.

Type and Size of Partner Sought

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

Technology Offer

A Polish innovative company with photonics technology is looking for R&D partners and distributors

Summary

A Polish company with extensive experience in research, development and fabrication of innovative photonic solutions for industry application is looking for business and research partners. The company specialises in innovative optic fibres for many different fields, especially for tailored solutions with good quality. The type of cooperation may vary, academia are sought for joint further development and industry for technical or commercial cooperation.

Creation Date 27 February 2017
Expiration Date 28 February 2018
Reference TOPL20170209001
Profile link

Details

Description

A Polish company carries out modelling, fabrication, research and development of specialty optic fibres (including microstructured, photonic crystal, plastic and plastic microstructured), innovative optical fibre components and photonic devices. Such photonic technology are developed for telecom, metrology, quality analysis, medical, mining, space, transport and safety applications.

The company offers new technology for optical fibres which based on classical and microstructured fibres: sensors and dispersion compensators, fibre modulators, variable attenuators and broadband fibre light sources. Company has a team which is working on the own preform technology of optical fibres.

Components of fibres including classical and microstructured fibres, pigtails, patchcords, efficient splices, fibre attenuators, fibres with tunable parameters. In effect optical fibres can be more sensitive, resistant and reveal good properties what is very important for the high quality level.

The company is looking for partners in the R&D projects for developing new products and services. The company also is looking for distributors.

The company is working on the development projects, research and creates the prototypes. Company is trying all the time solve a wide spectrum of problems by professional engineers and scientists who represents various branches.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Technical company from Poland is interested in business cooperation with industrial partners and from the science sector. The company is looking for partners for R&D projects with good knowledge of optical fibres and cables. The company also is looking for the distributors with experience.

Type and Size of Partner Sought

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

Technology Offer

Flexible lithium-ion batteries (F-LIBs) by the use of electro-spinning (ES) technique

Summary

An Italian research group is developing electrode materials for the fabrication of F-LIBs (Flexible lithium-ion batteries) by the use of electro-spinning (ES), a simple and versatile technique for the synthesis of one-dimensional nanostructured materials endowed with high specific surface area. The research group is looking for a research cooperation agreement and/or a financial agreement allowing for the electrode material synthesis on a larger scale and the F-LIB prototype assembly.

Creation Date 08 February 2017

Expiration Date 01 March 2018

Reference TOIT20170126001

Profile link

Details

Description

A research group of a South Italy based university operates in the field of physical and chemical sciences, materials science and technology, with particular interest in materials for energy applications. The group's expertise covers the fields of growth of nanostructured materials for applications in energy storage and conversion, catalysis, photo-catalysis and sensing and their analysis by various characterisation techniques. In particular, the research group has expertise in the fields of the synthesis by ES and the analysis of nanostructured materials by Raman spectroscopy, scanning electron microscopy, transmission electron microscopy, X-ray diffraction, X-ray photoelectron spectroscopy. One of the researchers of the team has been working in the field of LIBs for several years and is now studying graphene-based hetero-structures to be used as electrode materials in F-LIBs. A research group of a Germany based university electrochemically tests these materials.

Lightweight, large capacity, high rate capability and cyclic stability are the basic requirements for LIBs. Flexibility is further needed to meet the increasing demand for wearable/bendable electronic devices. Common electrode materials are in the form of powders, which requires the use of binders and hinders the preparation of F-LIBs. The Italian research group is working on the production of all the components needed for the fabrication of a F-LIB prototype by the use of ES technique. Presently, the group is able to synthesise, via ES, self-supporting and flexible fibrous mats to be used as electrodes in F-LIBs on a laboratory scale (namely, for coin cells).

Concerning the F-LIB development, the research group is looking for investors who finance the acquisition of new part-time researchers and instrumentation for the synthesis of electro-spun electrode materials on a larger scale. The research group is also willing to sign a research cooperation agreement, in order to participate, as research partners, in projects, which allow them acquiring the human and instrumental resources needed for the synthesis of electro-spun electrode materials on a larger scale and the assembly of a F-LIB prototype.

The tasks of the Italian research group in the research projects is related at that concerns the fabrication of nano-microfibrous products, their characterization (physico-chemical, electrical, and mechanical properties). Then the role of research partners should be devoted at the application of nanofibers produced by electrospinning in different fields as well as composite materials, energy efficiency, water filtration, biomedical applications.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Financial agreements

The research group is looking for investors who finance the acquisition of new part-time researchers and instrumentation for the synthesis of electro-spin electrode materials on a larger scale and the assembly of a F-LIB prototype.

Research cooperation agreements

The research group is willing to participate, as a research partner, in projects, which allow it synthesising electro-spin electrode materials on a larger scale and finally assembling a F-LIB prototype.

Technology Offer

A Greek research laboratory specializing in numerical analysis offers its support as a partner or subcontractor for R&D institutions and industrial entities

Summary

The Greek experienced research team is active in the field of numeric partial differential equations with recognised works in the scientific community. The methods supported by the team can be used in bio-mechanics, computational mechanics, environment, oceanography etc. The laboratory is seeking universities/R&D institutions and industrial entities that want to improve existing relevant numerical methods or develop new ones under a research or technical cooperation agreement.

Creation Date 24 January 2017
Expiration Date 02 March 2018
Reference TOGR20170124001
Profile link

Details

Description

Numerical methods are techniques by which mathematical problems are formulated so that they can be solved with arithmetic operations. Although there are many kinds of numerical methods, they have one common characteristic: they invariably involve large numbers of tedious arithmetic calculations (Climate and meteorological calculations, calculation of the occurrence of turbulent flow in open channels etc.).

With the development of fast and efficient digital computers, the role of numerical methods in naval and other engineering, environmental, and other, problem solving has increased dramatically in recent years.

The research team has experience in mathematical modeling, simulation and solving numeric partial differential equations arising in physical phenomena as:

- Atmospheric and water pollution: mathematical modeling of production and dispersion of pollutants from industrial activities and transport. Their reduction requires the numerical solution of systems of partial differential equations arising from the simulation of emissions, their release, diffusion of particles and other chemical reactions.
- Bio medical flow problems: blood flow, the three-dimensional reconstruction of organ geometries, flow-elastic structure interaction.
- Biomechanics: bone modeling, wave propagation in human long bones.
- Computational fluid dynamics: development of novel, efficient and accurate numerical techniques for solving relevant complex problems as well as implementation of fast numerical algorithms and derivation of approximate mathematical models.

- Computational mechanics and optimization problems: finite-elements, finite-differences, state space approach, genetic algorithms.
- Computational oceanography: development of autonomous, long-term in-situ exploration deep glider prototypes for further understanding, improved monitoring, and responsible exploitation of the marine environment of the deep ocean at large spatial-temporal scales.
- Numerical simulations of viscoelastic flows in Newtonian fluid flow problems.
- Wave's phenomena in the sea environment: surface gravity waves, acoustic waves in water column, propagation-scattering, water surface wave propagation, coastal hydrodynamics (tsunami propagation, tsunami hazard and risk assessment).

The Research team's laboratory is experienced in maritime engineering and advanced computational/numerical methods. It's research objectives so far were those listed below:

Numerical solutions with finite differences and finite elements of various problems

- Non-linear differential equations / systems,
- Soliton waves,
- Diffusion / leakage equations with applications in the diffusion of pollutants,
- Wave Propagation in the marine environment applications in sea bottom recognition, marine acoustic resonance, in the acoustic detection of submarines etc.

The Greek team is willing to establish research and/or technical cooperation agreement with universities, R&D institutions and/or industrial entities (i.e. SMEs) that are active in the field of numerical methods or are willing to apply them for the improvement of their products or services.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The Greek research team wishes to collaborate, as a partner or subcontractor, with :

- universities and/or R&D institutions that are active in numerical methods in order to establish research cooperation agreement (participation in EU collaborative programmes)
- universities and/or R&D institutions that are active in numerical methods for the improvement of existing relevant numerical methods or development of new ones under a technical cooperation agreement, and/or
- industrial entities (i.e. SMEs) that will apply the numerical methods for improving their products under a technical cooperation agreement.

Type and Size of Partner Sought

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

Technology Offer

Greek SME offers an innovative, user-friendly software solution for the administration and online distribution of travel services

Summary

A Greek IT company, with a decade of experience in innovative and specialized application software, has developed a software solution for the administration and online distribution of travel services. The offered platform has significant advantages from existing solutions due to its flexibility and scalability. The company seeks system integrators and business management system developers in the tourism sector for licence agreement.

Creation Date 12 December 2016
Expiration Date 06 February 2018
Reference TOGR20161209002
Profile link

Details

Description

The company currently specializes in the development of applications and software for the administration and online distribution of travel services, such as destination management companies, online travel agencies and incoming travel agencies.

The maximization of sales and the reach of more potential clients is a major target in the tourism sector. Thus, an efficient connection of the company with its partners and clients is required in order to obtain the information that they require online without delays, maximize responsiveness and minimize administrative costs.

In order to address those issues and to enable the drastic expansion of distribution networks and sales volume, the company has developed an e-Tourism platform which is an integrated software solution for the administration and online distribution.

The offered platform consists of a diverse set of applications which support the daily operations and due to its innovative technologies it facilitates fast performance and reliability.

It includes innovative functions such as the ability for local representatives and sellers to sell excursions on the ground to tourists by using a mobile device or via the web. All vouchers could be also printed on-the-spot using mobile printers. The use of mobile devices is also utilised in order to enable airport personnel to easily greet and manage tourists upon their arrival at the airport. It can also be used to organize effectively tourist handling on the ground, check online the arrival lists, allocate tourists transportation on-the-spot, and record non-shows and check-in times.

The company seeks to find partners for licence agreement where the partner either requires the product for own use, or reaching their clientele by exploiting the platform.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The Greek SME is looking to collaboration with partners under a licence agreement. The partner should either wish to exploit the product for own use or for their clientele. The Greek company can introduce, analyze and customize the solution according to the clients' needs.

Type and Size of Partner Sought

SME 11-50,SME 51-250

Technology Offer

Hungarian SME offers logistics appointment system – online time window

Summary

This Hungarian SME deals mainly with web solutions and web applications. The offered solution supports balanced inbound and outbound traffic for logistics companies and builds transparent and optimized processes. Online time window can be a solution primarily for issues of multinational companies' warehouse and logistics departments. They are looking for commercial agreement with technical assistance.

Creation Date 15 December 2016
Expiration Date 24 February 2018
Reference TOHU20161128001
Profile link

Details

Description

System is developed by a Hungarian company, who has an own R&D team and who produce web solutions and web applications.

The system supports balanced traffic of logistics and manufacturer companies. Currently, carrier traffic is controlled by standard time windows, but it is not the most appropriate solution, as it is not flexible enough for partners and does not optimize warehouse background operations. Overloaded and empty periods can still exist within a standard time window slot.

Online time window application makes delivery traffic more transparent. The logistics events can be planned more easily and it can optimize background activities of the warehouse and logistics. It contains useful applications for different areas, such as check-in, quality, production and safety/security.

In real-time, window delivery appointments can be made by customers and suppliers directly or they can organize their carriers, based on pre-defined rules, or permissions. Therefore administration cost is reduced and transparency of arrivals is increased.

This application is running on dedicated servers in an ISO 27001 certified data centers in Cloud. The system guarantees high availability and auto scaling. They provide all required hardware and software components in server side and for partners no client software is required to be installed, only latest version of popular web browsers should be available.

There are two parts of the system's implementation:

Part 1 (Business setup): The system is a cloud application and running on a dedicated server in a Data Center with ISO/IEC 27001:2005 (SGS) certification. The company adds storage, domain, necessary web links and all company specific data in server side. It can be done by the

team within a few hours.

Part 2 (Customization): it is an onsite consultation, usually takes 3-5 days, when they customize the software, based on company specific policies, and processes. As a result of this consultancy, they get a complete system with proper resource-, time window-, partner settings and user setup. This part contains internal user training sessions as well.

Target audiences are logistics companies with accepting LEAN principles, who have problems with organizing delivery traffic or would like to optimize their internal processes for better operational performance.

They are looking for commercial cooperation agreement with technical assistance with partners, constructors, licensed trading- logistics consultant companies.

The following services are provided as a part of technical assistance:

- Company installation in server side, user- and permission setup
- Workflow setup within application based on requirement analysis
- Business improvement consultancy and customized module development to the clients
- 0-24 customer service
- Onsite support of UAT (User Acceptance Testing) and GoLive, manage training sessions
- Server management as application runs in cloud, dynamic scaling, full and incremental backups in company level
- Continuous application development to ensure compatibility with the following client browsers: Internet Explorer, Google Chrome, Mozilla Firefox.

The type and size of the partner can range from private companies with up to 500 employees to multinational companies.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

1. Manufacturer companies with own warehouse area, who manage local in/outbound transports.
2. Logistics centers with high traffic pressure.
3. Carrier companies, who manage deliveries to mainly multinational companies.
4. Logistics consultant companies/consultants, who are looking for online, innovative logistics solutions

Roles: in case of Manufacturer companies, Logistics centers and Carrier companies they provide full service described above as a part of technical assistance. However with Logistics consultant companies/consultants they can share responsibilities in the following activities:

- Business improvement consultancy
- 0-24 customer service
- Onsite support of UAT and GoLive, manage training sessions

In case of Carrier companies we can give background support

Task to be performed:

1. The enterprise is looking for Key Users who can support implementation as a part of business improvement. The enterprise is also looking for logistic companies in supply chain, who want to have full control over in/outbound deliveries.

Specific area of activity of the partner

They are looking for logistics partners with problems in managing incoming and outgoing transport traffic in automotive-, chemical-, electronics-, food- and pharmaceutical industries. Logistics and distribution centers, manufacturers, transport companies and other logistics participants with warehouse activities and other logistics areas are sought, such as transport management, customer service, procurement and quality.

The company is seeking to distribute the technology to interested partners (SMEs of any sizes or MNEs) mainly in Europe, but interested in transatlantic cooperation also.

Type and Size of Partner Sought

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

Technology Offer

Novel method for early detection of amblyopia

Summary

A Hungarian University has developed an easy to use new method and software to recognize amblyopia in early childhood stage. The technology is more sensitive and requires shorter time of examination than other existing technologies. The University is seeking for collaboration in the framework of license, co-development, technical cooperation agreement with industrial and/or research partners from the medical equipment and diagnostics sectors.

Creation Date 01 March 2017
Expiration Date 06 March 2018
Reference TOHU20170301001
Profile link

Details

Description

Amblyopia (i.e. lazy eye) is a leading cause of permanent vision loss below age of 30 in developed societies. The incidence of this disease is about 6-7% in every population, independent of race or nationality. The main causes of amblyopia are mild childhood eye refractory problems (e.g. anisometropia) and/or eye movement disorders (e.g. squint), which result in a disturbance of visual cortical development. Failure to recognize the problem till 6 or 7 years of age makes the chances of recovery minimal. Irreversible consequences include the lack of binocular vision and impaired visual acuity in one eye. The degree of vision loss can vary from mild to complete blindness. This visual impairment not only creates a great hardship for the child, it can certainly limit future endeavors. Furthermore, if the good, non-amblyopic, eye becomes damaged (e.g. injury, illness) then the person immediately becomes visually disabled.

A Hungarian University has developed an electrophysiological method, which is capable of recognizing the presence or lack of binocularity as early as six month of age. The clinical importance of this technique is that the earlier the detection of the problem, the more efficient the treatment will be. Due to the lack of verbal communication and cooperation, the evaluation of visual acuity is practically impossible by other methods from six month to 3.5 years of age.

The University also developed a quick, time effective and reliable method to detect amblyopia in early childhood. This method is capable of identifying all those childhood visual disorders, which may potentially lead to amblyopia after about 3 years of age. The test is based on dynamic random dot stereograms requiring two eyes to recognize a hidden object within the noise. Movies are generated on a laptop or tablet. In contrast to other static stereo tests, the perception of the 3D objects becomes more difficult, even for those who suffer from mild disorder. The results show that mild refractive errors and hidden squints can be identified easily. The University is looking for industrial and/or research partners from the medical equipment and diagnostics sectors and is seeking for collaboration in the framework of license, co-development and technical cooperation agreement.

Current and Potential Domain of Application: Potential areas of use:

- Healthcare establishments
- Optics
- Medical device manufacturers
- Infant care specialist networks

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: University, Industrial Partner, Research Institute.
- Specific area of activity of the partner: Healthcare establishments; Optics; Medical device manufacturers; Infant care specialist networks.
- Task to be performed by the partner sought: Contribution in the further development in the framework of licence or technical agreement.

Type and Size of Partner Sought

University

Technology Offer

Croatian SME's solution which enables maximum charging of lead batteries and contributes to energy and time savings looking for license/manufacturing agreement

Summary

Croatian SME developed time-voltage module, a solution which enables maximum charging of lead batteries. Solution contributes to at least 30% of energy and time savings in logistics, increases the initial capacity of battery and also resolves the problem resulting from lead sulphate deposits and reduced active mass at the electrodes. Company is interested in license/manufacturing agreement with companies involved in the electronic industry and manufacturers of electronic equipment (components).

Creation Date 24 January 2017
Expiration Date 14 February 2018
Reference TOHR20170124002
Profile link

Details

Description

Croatian SME is R&D oriented and deals with repair of electrical equipment. Their activities can be divided in two main programs: battery regeneration and industrial electronics (BR/IE) and metal products for logistics (MPL). These two programs unify their goal: to save energy by applying high environment-protection standard in business activities and use of own resources in a more economical manner.

With use, batteries lose their capacity and the efficiency of the energy stored within. As a consequence, the battery requires frequent charging, can not be charged fully, fails to perform as expected and consumes increased amounts of power. Depending on the type and condition of the battery different regeneration technologies can be used, electro-regeneration and chemical regeneration. Each battery regeneration requires a special approach because it is based on specific and measured parameters of the battery itself.

SME developed time-voltage module (TVM), a solution which enables maximum charging of lead batteries and contributes to energy and time savings. Time-voltage modules are electronic devices installed in chargers that enable enhanced and more economical operation of the battery and charger. This innovative approach contributes to at least 30% of energy and time savings in logistics. Battery regeneration is a relatively new technology of servicing lead acid batteries that increases the initial capacity and extends the battery's service life. By applying new technologies, they solve the problem resulting from lead sulphate deposits and reduced active mass at the electrodes which are the most frequent cause of poor battery performance.

The company is interested in concluding a license or manufacturing agreement with another company interested in manufacturing and trading the device in large series. A complete know-how transfer on production, assembly and an operational guidebook will be supplied by the company to the partner.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company is interested in concluding a license or manufacturing agreement with another company interested in manufacturing and trading the device in large series. A complete know-how transfer on production, assembly and an operational guidebook will be supplied by the company.

Partners are sought among companies involved in the electronic industry, as well as manufacturers of electronic equipment (components).

Other companies not mentioned as targets are also welcomed for possible cooperation.

Technology Offer

High-precision non-contact durable liquid flow meter

Summary

Croatian SME developed advanced radar system measurement with a wide range that can be used for flow velocity monitoring of open channel flows (rivers, irrigation channels, waste waters, hydropower plants, etc.). With no moving parts and robust mechanical design, sensor is quickly and simply installed above any liquid surface. SME is looking for commercial agreement with technical assistance with companies engaged in water management, design of drainage systems and industrial plants.

Creation Date 07 February 2017
Expiration Date 21 February 2018
Reference TOHR20170207001
Profile link

Details

Description

Research and development oriented SME from Croatia created and manufactured radar sensors for use in traffic, security and hydrology applications. SME has strong competencies in microwave engineering, digital signal processing, embedded systems and electronics development for demanding applications like high processing power computing and similar.

Most commonly used solution for liquid flow measurement is mechanical measuring which has questionable precision and applicability (it can only be used for measuring if the weather is nice). Company's solution uses radar measurement that has better precision, wider measurement range, longer duration and more affordable price.

With the use of radar technology, the solution provides a precise contactless measurement of surface flow velocity and it enables quick and simple sensor installation above any liquid surface (water, waste, chemicals, sewers etc.) with minimum maintenance. Unlike ultrasound-based flow velocity sensors, the radar sensor is immune to air temperature/air density changes. The radar can be mounted either above the stream or sideways and it supports multiple communication interfaces and protocols, which makes it easy to integrate into an existing SCADA (supervisory control and data acquisition) system.

The radar operates in K-band (at 24.125 or 24.200 GHz) and provides flow speed readings 20 times per second over serial (RS-232, RS-485) and CAN (Controller Area Network) interfaces. A variety of supported communication interfaces and protocols enable easy integration with existing telemetry equipment and SCADA systems. An integrated tilt sensor measures inclination angle of the sensor and the flow velocity measurement is automatically cosine-corrected according to the measured mounting tilt angle.

Company's solution is used to monitor flow velocity of open channels such as rivers, irrigation channels, waste waters, sewer systems, and for monitoring and control of hydropower plants

and wastewater treatment plants. It is also suitable for various mass flow metering applications in mining processing plants, industrial installations. Because it has no moving parts and has a robust mechanical design, it can also be used for measurement of flammable fluids and harsh chemical applications.

Radar can also be used for precise flow measurement in all kinds of outdoor and indoor industrial facilities. Since the radar waves propagate through plastic materials, the radar can be used to measure flow speed inside plastic pipes/tubes within an industrial facility. Radar is also perfectly suited for use in various water/sewage processing facilities, hydropower plants etc.

Radar sensor is certified according to both European and American standards and is being used worldwide - in China, Italy, Czech Republic, etc. In China SME's sensors are used for flow measurement to defend areas in need from floods, especially in places with high water level.

The company is looking for commercial agreement with technical assistance with partners that are engaged in water management, utility services, a design of drainage systems and waste water. Possible partners can also be industrial plants.

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Issuing Partner

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company is looking for partners who are dealing with water management, utility services, or working on the design of drainage systems. Possible partners may also be industrial plants and companies engaged in waste water management.

Technology Offer

A Polish company offers traffic light priority system for trams and buses in a public transport via license agreement.

Summary

A Polish company specialized in a multi-user information technology systems offers traffic light priority system for trams and buses that significantly improves their movement and punctuality. The company is looking for partners interested in cooperation in terms of license agreement.

Creation Date 29 September 2016

Expiration Date 27 February 2018

Reference TOPL20160929001

Profile link

Details

Description

The Warsaw, Poland based company was established in 1986, and offers multi-user information technology systems.

For the last several years, the company successively expands portfolio of offered systems with items such as:

- designing, producing and implementation of computerized systems for location, communication and control of vehicle motion
- designing, producing and installation of central and depot dispatcher centers, radio base stations, vehicle equipment (on-board computers, radio units, cameras)
- designing, delivery and installation of radio communication systems
- configuration and installation of video surveillance systems on railroad vehicles
- designing and delivery of tracking systems of any vehicles
- realization of non-standard orders concerning the area of our company activity

Recently the company developed a Traffic Light Priority System. Public transportation is perceived as being attractive to the passengers, when it's fast, punctual, and vehicles move in optimal way across the transportation network area. Time based analysis performed in different cities proved that waiting for the right traffic signal takes more than 30% of the whole journey time. Traffic light priority for trams and buses significantly improves their movement and punctuality.

The system developed by the company helps vehicles to drive through an intersection where traffic is controlled by light signals. Vehicular unit sends a series of messages to traffic light controller with information about its route and vehicle status. Priorities assigned on different cross-roads make it possible to shorten the total ride time, what leads to lower company's outlay and increased passengers satisfaction.

Information from the vehicle is sent twice or thrice when it moves past defined control points. Controller's logic circuit analyses received information from every vehicle that occur near the crossing, and modifies light sequence by advancing or retarding their time on desired movement direction. After the vehicle leaves the junction, the vehicular unit sends information to the controller one more time.

The company seeks potential partners that are responsible for public transportation issues at their cities to cooperate via license agreement, since that form of cooperation has been used numerous times at the domestic market.

A potential partner is expected to employ a light priority system for public transportation, and the expected outcome of the cooperation would be a vastly improved traffic's issues at its respected cities

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company is looking for partners among large cities (municipality's unit designated with public transportation issues, or company that act on behalf of the cities) with public transportation that wish to improve traffic at their respected cities. Potential partner would be an entity that wants to improve traffic issues of theirs respected cities with special emphasis on public transportation movement and punctuality. Cooperation via license agreement.

Technology Offer

Production line for the damage-free processing of high voltage cables for electric and hybrid vehicles

Summary

A German SME specialised in cable processing has developed a flexible production line for the damage-free processing of high voltage cables for electric and hybrid vehicles. Its modular setup allows the integration into existing production lines. The company looks for suppliers in the automotive industry for commercial agreements with technical assistance to integrate the technology. In addition to that partners to develop an automated solution are sought for technological cooperation agreements.

Creation Date 10 February 2017
Expiration Date 20 February 2018
Reference TODE20170202001
Profile link

Details

Description

High voltage coaxial cables are of high importance in the automotive industry. Electric and hybrid vehicles cause an even greater demand. High voltage cables must ensure the safe transmission of high voltage and the shielding of electromagnetic fields at the same time. Before plugs or connectors are assembled, the cables must be processed. Up to now, 80-95% of processing steps are carried out manually, requiring a considerable amount of human workforce. That is why cable harnesses in electric automotive vehicles nowadays account for a relatively high percentage of the overall production costs.

Conventional methods for the wire stripping cannot be applied anymore for certain cables. The cutting of shieldings by rotating blades, for instance, can lead to the damaging of underlying layers. For traction cables this is causing a problem since the underlying layer has an insulation function for the inner conductor. Even small damages of this layer can lead to severe voltage punctures. For other processing steps no mechanical solutions had been found yet.

The German SME developed a flexible production line consisting of individual docks, each carrying out specific processing steps. The docks are modular and can be assembled according to specific production needs. The individual manufacturing steps involve the dismantling of the outer sheaths, the removal of the insulation or shielding foil, the removal of the filling material/insulation and the stripping of the wire ends.

As for the cutting of shieldings of traction cables, a specifically designed machine for the damage-free cutting of shield braidings can be integrated into the production line to solve this problem. Other power cables can be cut by blades without causing problems, however unwanted wire rests can cause a problematic degree of contamination. A specifically designed cleaning device can be integrated in the production line to solve this problem.

The company looks especially for suppliers active in the automotive industry (especially cable confection for electric and hybrid vehicles) for commercial agreements with technical assistance to integrate the technology into their production systems. The necessary know-how for the technology-transfer will be supplied by the German SME.

Also partners to develop an automated solution are sought for technological cooperation agreements.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company looks especially for suppliers active in the automotive industry (especially cable confection for electric and hybrid vehicles) to integrate the technology into their production systems for commercial agreements with technical assistance. Necessary know-how for the technology-transfer will be supplied by the German SME.

Also partners (research or industry) are sought for technical cooperation agreements to further develop the technology into an automated solution.

Technology Offer

Life-quality improving device with software for body 24/7 monitoring and analyzes for it's predictions, such as EEG, GSR, heart rate, etc.

Summary

Research center from Latvia involved in the neuroscience field and focused on research of human psychological, neurological and physiological status diagnostics, is offering a new device with software program that analyzes body functions 24/7 such as EEG, GSR, heart rate, etc. The main advantages of proposed system is real time information registration on the state of the body and evaluates it based individual referential intervals. The company is looking for investors or R&D projects partners.

Creation Date 02 February 2017
Expiration Date 15 February 2018
Reference TOLV20170202001
Profile link

Details

Description

Research Center from Latvia founded in 1991 on base of experienced medical specialists and researchers in the neuroscience field and focused on research of human psychological, neurological and physiological status diagnostics. The device and program for registering non-stop information on the state of the body (psycho-emotional stress level, pulse, temperature, breathing, and muscle tone).

The program provides regular information gathering of the skin and hands (heart rate variability, skin resistance, skin temperature, gas composition in the blood). Information is constantly being processed and ends up on the device monitor that is on persons hand, allowing them to keep track of their body's functioning characteristics. The program mathematically computes a prediction on how the health status will change and in case of unfavorable outcome, the program will, first, independently notify the user himself, and second – contact with the people chosen by the same user and report to them on the negative changes in users condition.

The company is looking for investors and/or R&D project partners because product can be developed further and it can be done by support and cooperation with investors and/or R&D project partners.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Company is looking for investor and/or R&D partnership in various aspects of further product development (agreed directly with potential partners). The company is offering research cooperation agreement in order to develop product further. Company is willing to consider other types of partnership.

Type and Size of Partner Sought

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

Technology Offer

Research team seeks policy makers and/or academics to develop an e-government services platform for citizens and businesses.

Summary

A Greek research team is developing a pioneering pilot e-government project involving public procurement at local authority level. The findings aim to facilitate the development of a centralized platform for the provision of high-quality e-government services to citizens and local businesses. The team seeks policy makers and/or academic scholars interested in developing the platform as part of an e-governance strategy, through a research cooperation agreement.

Creation Date 24 January 2017
Expiration Date 23 February 2018
Reference TOGR20170124003
Profile link

Details

Description

The increasing EU policy attention for the innovation potential of public procurement, only recently, has led to some actual public procurement initiatives by a limited number of Member States. Seeking more innovative procurement solutions can generate benefits for the public and the private sector as well as the wider society.

The Greek research team is working on a pilot project that was launched by the Central Union of the Greek Municipalities, aiming at the development of a centralized platform for the provision of high-quality e-government services to citizens and local businesses.

A key element in the above project aims to shed light on the implementation stages of an innovative procurement practice. First, it attempts to address the lack of empirical studies by offering evidence on the role of PPI (Public Procurement for Innovation) in the field of e-governance. Second, it is investigating a quite complex ICT project that involves a variety of actors from both the demand and the supply side and it offers a rich illustration of the various procurement stages and specific challenges encountered, providing some interesting policy implications. Third, the empirical part of the above project is based on case study work guided by in-depth interviews mainly with the key supply actors of the project.

The advantages of this method include a value-added e-government service that also achieves a more efficient management of resources, organizational processes and significant economies of scale for local authorities. In both the Greek and EU contexts, this new procurement approach may lead to significant initial cost savings while allowing for the systematic upgrade and continuous support of the municipalities' e-government systems. A significant positive side effect of the project is that it has created opportunities for knowledge-intensive entrepreneurship, while its main added value lies in its long-term potential as its design characteristics offer high possibilities of reusability and transferability.

The research team is looking for co-operations with policy makers and/or other academic

scholars aiming to provide e-government services to citizens and businesses through a research cooperation agreement.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The research team is looking for cooperation with policy makers, such as representatives of the government, the municipality or decision makers, or academic scholars who want to collaborate on this project concerning e-government services for citizens and businesses in general through a research cooperation agreement, or in the framework of a relevant call for proposals of an EU funding programme.

Type and Size of Partner Sought

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

Technology Offer

A UK company offering a low temperature soldering alloy for joining carbon materials seeks partners to implement their solution for a commercial agreement with technical assistance or to join an R&D consortium for a research cooperation agreement.

Summary

A UK based company has developed a low-temperature soldering alloy for joining of carbon materials to one another or dissimilar materials such as metals. The solder produces mechanically strong and electrically conductive bonds with no need of flux. The company seeks partners who wish to use the solder in their product for a commercial agreement with technical assistance or a research cooperation agreement to join a consortium for R&D projects in European calls for grants e.g. H2020

Creation Date 23 February 2017
Expiration Date 27 February 2018
Reference TOUK20170223001
Profile link

Details

Description

The unique properties of graphitic materials, including low density, high melting temperature, excellent thermal conductivity, resistivity to corrosion and erosion as well as great mechanical performance in wide range of temperatures might render them unrivalled candidates for the applications in many areas of industry. However, the difficulty of joining of these structures together or to other materials such as metals has always been one of the major constraints limiting the application of classic carbon materials and nowadays becomes an obstacle for the potential use of nanostructured carbon materials.

The patented soldering solution developed by this UK company is tin-based, lead-free and is applied at low-temperatures enabling the joining of various carbon materials including carbon fibres or carbon nanotube fibres in both carbon-carbon and carbon-metal arrangements. The soldering of carbon materials may be performed in air, at temperatures in the range from 300°C to 450°C with the use of classic soldering iron. Currently the main alternative to this process is the brazing process (800-1200°C) which may lead to the combustion of carbon materials, in particular nanostructured ones, as well as is responsible for the stress concentration during cooling of the joint made of materials with considerable difference of thermal expansion coefficients.

Solder developed by this UK company offers a patented tin based, lead –free, low temperature,

flux less joining of carbon-carbon or carbon-metal.

The solder can be purchased on line in 1m lengths and larger quantities can be purchased by contacting the company. Full data sheets for the solder are available.

The company is happy to work with businesses looking to find better ways to carbon and can assist in the process of research and development of a solution. The company seeks partners interesting in incorporating this new bonding technique into their designs either carbon-carbon or carbon-metal for a commercial agreement with technical assistance.

The company is also interested in being involved in R&D projects as part of a consortium for a research cooperation agreement.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company seeks partners for a commercial agreement with technical assistance in industry looking to find alternative solutions to joining carbon materials such as carbon fibres or carbon nanotube fibres either to other graphitic materials or to metals and who need to bring in expertise to achieve this.

The company is heavily R&D focused with a strong pedigree of research from the University of Cambridge and hence would also like to work on R&D calls for grants such as Horizon 2020 as part of a consortium for a research cooperation agreement.

Type and Size of Partner Sought

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

Technology Offer

Integrated software for water quality assessment

Summary

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

Creation Date 01 February 2017
Expiration Date 07 February 2018
Reference TOBE20161221001
Profile link

Details

Description

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

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

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- License agreement:

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

- Collaboration agreement:

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

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

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

Technology Offer

Stress-detection algorithm for wearable devices is offered for licensing

Summary

A Slovenian research institute is offering licencing of a computer implemented algorithm for stress detection. The algorithm was evaluated in a real-life setting and is integrated in a prototype application for managing mental health and well-being. The researchers are looking for a company active in the health and wellbeing market able to implement the algorithm in the commercial wearable application in the framework of a license agreement.

Creation Date 01 March 2017
Expiration Date 03 March 2018
Reference TOSI20170301001
Profile link

Details

Description

Continuous exposure to stress is harmful for mental and physical health. Solutions for efficient, accurate and user accepted automated stress detection are still missing on the market. The artificial intelligence researchers from a Slovenian public research institute have developed and tested an algorithm for continuous detection of stressful events. The algorithm is using data from a wrist device which is capable to measure users' heart rate (HR), blood volume pulse (BVP), galvanic skin response (GSR), skin temperature (ST), time between heartbeats (IBI) and accelerometer data. The offered technology is computer implemented algorithm, however the proposed algorithm in a combination of appropriate wrist device (which must be provided by the partner sought) can constitute a competitive product for health and well-being market.

Authors of the algorithm are computer science experts employed at the Slovenian institution for research in sciences and technology. They are specialized in the development of proprietary methods and algorithms for analyzing wearable sensor data used mainly in the health domain but applicable to other domains as well. The team has been among finalists of the global competition for medical diagnostic devices. They have won the international competition for activity recognition. They are active in several projects for the development of smart watch monitors for independent living of seniors with dementia; detection of falls and abnormal behaviours for elderly; support older workers in reducing physical and mental stress using wristband and personalized advices and decision support to help patients with heart problems.

The researchers are looking for companies who are interested in obtaining a licencing agreement for stress-detection algorithm. Companies should be able to cover and organize all commercialization services (marketing and sales, distribution, after sales support). In particular following companies from wellness and health sectors are sought:

- companies which develop and produce wearable wireless wellbeing, sport and fitness devices;

- companies which offer solutions for remote patient monitoring, on-site professional healthcare monitoring and home/office/work environment monitoring.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The research institute is looking for industrial partners who are interested in obtaining a licencing agreement for stress-detection algorithm for wearable devices.

In particular following partners from wellness and health sectors can be involved in a licencing agreement:

- companies which develop and produce wearable wireless wellbeing, sport and fitness devices;
- companies which offer solutions for remote patient monitoring, on-site professional healthcare monitoring and home/office/work environment monitoring.

Companies should be able to cover and organize all commercialization services (marketing and sales, distribution, after sales support).

Type and Size of Partner Sought

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

Technology Offer

Innovative functional assay service for genetic variants

Summary

A UK company offers a functional assay service for genetic variants focusing on non-coding regions. The company's rapid, reliable & highly reproducible automated platform allows the rapid synthesis of promoter regions, screening & determination of the functional impact of nucleotide mutations to provide a more precise picture of each variant's role. They are seeking companies working in genetic testing, bioinformatics, & preclinical drug discovery, for service or technical cooperation agreement.

Creation Date 17 February 2017
Expiration Date 20 February 2018
Reference TOUK20170217001
Profile link

Details

Description

It is often not known what the functional impact of a genetic mutation, or variant, will have on disease, thus limiting our ability to diagnose and treat patients. Traditional approaches to functionally evaluating new variants are slow and laborious, meaning as we enter the era of whole-genome sequencing in which thousands of new variants will be discovered, a bottleneck is beginning to form that threatens rapid progress in drug discovery and the early promise of preventative and personalised medicine efforts.

This UK company offers a variant synthesis and analysis service for genetic non-coding regions. The company combines rapid variant synthesis and analysis in a human in vitro model system that is tailored to a specific disease context. In silico predictive tools are low-weight evidence in variant classification. In contrast, demonstrating a variant's impact directly in an in vitro assay provides stronger evidence for the variant's role in disease pathogenesis.

The process is swift, enabling deep and accurate insight into the functional impact of nucleotide mutations. Furthermore, the company's automated platform - suitable for all throughputs - performs a reproducible functional assay, ensuring standardised data and eliminating the variability stemming from different methodologies across institutions. The impact of variants can be benchmarked against clinically-validated non-coding variants of the same gene, to reliably apply functional designations when assessing pathogenicity.

The company is interested in partnering with SMEs and larger companies in the life sciences - particularly those working in preclinical drug discovery, bioinformatics, and genetic testing - who can benefit from a fast, reliable and convenient platform that offers detailed understanding of non-coding genetic variants. In addition, for those with limited facilities, like virtual biotechnology and bioinformatics startups or academics, the company can validate their results without them requiring a specialised lab. The types of partnerships sought are service agreements, technical cooperation agreement or discussions of possible EU calls.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: Industry or academic

Activity of partner:

- * Bioinformatics
- * Genetic testing
- * Preclinical drug discovery

Specific role of partner sought: Utilise the process to expedite their research into non-coding gene variants via a service or technical cooperation agreement.

Technology Offer

Development of a highly efficient gasoline combustion system using innovative combustion chamber insulation and Miller-cycle

Summary

A consortium of German institutes and automobile industry is applying for a nationally funded project that deals with an innovative coating to increase the thermal efficiency of gasoline engines. It will combine detailed simulation and testing to identify the optimum wall heat transfer characteristics, which will then be input for a tailor-made combustion chamber coating. SMEs are sought for technical co-operation to participate in working group meetings and benefit from the project results.

Creation Date 10 February 2017
Expiration Date 13 February 2018
Reference TODE20170210001
Profile link

Details

Description

An interdisciplinary consortium of three institutes at two German universities and partners from the automobile industry and its suppliers applies for a nationally funded project that deals with innovative combustion chamber insulation in combination with a Miller-cycle combustion system to increase the thermal efficiency of the gasoline combustion process. It is intended to combine detailed 3D CFD (computational fluid dynamics) simulation of the heat transfer and in-cylinder flow with 1D engine process simulation and 0D-vehicle simulation to identify the optimum wall heat transfer characteristics for best thermal efficiency in a broad engine map area. These findings will then be the input for the development of a tailor-made combustion chamber insulation coating. Finally, the effect of the new coating in combination with the optimized Miller-combustion system will be validated on a single cylinder research engine. A consortium of automobile industry and its suppliers will accompany the 30 months project. Small and Medium-sized Enterprises are sought to participate in bi-annual working group meetings and benefit from the project's results within a technical cooperation.

The SME partners may come from any country. The project addresses SMEs from automotive-related and coating industry. They will not be formal partners in the research project but they will have access to the information, project progress and to the results and can contribute their ideas in the meetings. The meetings will be held in English language. The partners should confirm their commitment via a letter of interest.

The letter of interest should be sent by 1 April.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: Small and medium-sized enterprises

Area of activity of partner:

Automotive industry, mobile propulsion, combustion engines, 1D/3D process simulation, (combustion chamber) coating technology

Tasks to be performed:

They should be interested in latest research and development and technology and know-how transfer and confirm this via a letter of interest.

The partners are expected to participate in bi-annual working group meetings.

The SMEs will not receive funding but they will have access to the information, project progress and to the results and can contribute their ideas in the meetings.

The letter of interest should be sent by 1 April 2017.

Type and Size of Partner Sought

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

Technology Offer

Advanced research and development in mobile propulsion using cutting edge test facilities

Summary

A German university operates a sophisticated research centre for any kind of mobile propulsion system. The institute's longtime research experience ranges from fundamental research on experimental and numerical basis up to the implementation of market-ready applications of single components as well as complete propulsion systems. Partners from research and industry are sought for any research and technical co-operation to develop and promote sustainable low carbon mobility solutions.

Creation Date 01 March 2017
Expiration Date 06 March 2018
Reference TODE20170301001
Profile link

Details

Description

An institute of a German university has performed research and development in the field of propulsion technologies for more than a century. From its original background, internal combustion engines, the institute evolved to a leading research institute for any kind of propulsion system. Fundamental research on combustion systems, fuels and exhaust after-treatment as well as the required experimental and numerical methods form the major topics. In consequence, the institute offers a broad spectrum of experiences and test facilities for such investigations:

- various single cylinder research engines
 - o gasoline, diesel & commercial
 - o thermodynamic & optical
 - o high variability
- high and low pressure chamber with high speed camera and laser optical measurement equipment
- synthesis gas test bench for catalyst investigations
- turbocharger test bench
- chemical & electronic laboratories
- detailed 3D computational fluid dynamics (CFD) simulation coupled with reaction kinetics
- alternative propulsion systems
 - o electric
 - o fuel cell
 - o renewable fuels from biomass or electricity
 - o hybrid

In interdisciplinary cooperation with other university institutions, the institute put a new state-of-

the-art propulsion test centre in operation that allows the cross-linked testing of complex powertrain systems either as assemblage or on single component level in combination with co-simulation. Thereby, the institute can offer fully equipped test benches for any imaginable powertrain configuration in any state of development from first concept studies up to market-ready applications:

- more than 30 engine & powertrain laboratories with up to 600 kW
- battery laboratory including temperature chamber and shaker
- e-motor laboratory (300 kW)
- transmission laboratory (300 kW)
- fuel cell laboratory
- 4-wheel vehicle chassis dynamometer

The R & D carried out by the institute and its academic or industrial partners comprises:

- gasoline, diesel and alternative combustion
- virtual engine development
- optical diagnosis and detailed 3D-computational fluid dynamics (CFD) simulation
- engine design, computer-aided engineering (CAE) and mechanics
- alternative fuels
- boosting technologies
- exhaust gas aftertreatment
- acoustics and noise vibration harshness (NVH)
- hybrid powertrain and battery
- powertrain electronics, mechatronics & control systems
- fuel cells

As part of a renowned university the institute also offers a platform for the public thus contributing to public acceptance of innovative technologies by demonstration and educational measures.

Partners are sought for technical and research cooperation. Potential partners may come from industry, research or academia. The institute is open for discussions about even rough project ideas. So, there is no need for partners to have concrete project proposals already. The targets that should be envisaged by a technical or a research co-operation address sustainable, low-carbon mobility solutions, minimum CO₂ and pollutant emissions, alternative fuels from renewable sources, efficient and innovative research and development methodologies, profound comprehension of fundamentals.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: Industry, research, academia

Area of activity of partner:

Automotive industry its component suppliers and SMEs, mobile propulsion, combustion engines, e-mobility, fuel cell, 1D/3D process simulation

Tasks to be performed:

The partners should be interested in and contribute to R&D in

- sustainable, low-carbon mobility solutions
- minimum CO₂ and pollutant emissions
- alternative fuels from renewable sources
- efficient and innovative research and development methodologies
- profound comprehension of fundamentals

Technology Offer

New railway applications using an integrated high precision global navigation satellite/Galileo receiver with optimised communication module and central service platform

Summary

A German university institute is developing an integrated localisation device consisting of industrial front-end, multi-constellation and multi-frequency high precision global navigation satellite system receiver (GPS & Galileo), and optimised communication module for automated railway applications. An automated shunting scenario as well as monitoring, predictive maintenance, and fleet management applications are addressed. Industrial partners are sought for technical and research co-operation.

Creation Date 03 February 2017
Expiration Date 09 February 2018
Reference TODE20170203001
Profile link

Details

Description

A German university institute aims at the development of a reliable and highly-precise GPS & Galileo navigation receiver for railway applications. Application-specific problems, such as signal shadowing in railway specific receiving conditions, are analysed, possible solutions are developed and implemented.

A unique selling point in the receiver development is represented by the seamless connection of the receiver soft- and hardware to central services. Therefore, a system is designed using a synthesis of optimized communication channels for data exchange, as well as, tailored services based on a modular service architecture. Thus, by means of modern navigation and communication technologies, new realization scenarios with focus on railway applications are designed. Thereby, the efficiency of existing processes can be increased and, at the same time, the potential of modern, precise navigation tools can be integrated into the economic value chain.

The efficiency of the overall system is shown exemplarily using an automated shunting scenario. The scenario is implemented on autonomous mobile test platforms and on test vehicles within a real marshalling yard to validate the system under real railway conditions. Monitoring, predictive maintenance, and fleet management applications are also addressed.

The university institute is looking for industrial partners. The objective is to adjust the solution to the partner's applications within a technical co-operations or to develop completely new

applications within a research cooperation agreement.

Network Contact

Issuing Partner

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Industrial partners interested in technical cooperation agreement to adapt the technology to specific needs or to further develop and industrialise this technology.

A research cooperation agreement with industrial partners with the aim of identifying completely new applications, e.g. safety critical applications in the area of completeness of train recognition, or solutions concerning automated shunting combined with management systems and others.

Area of activity of partner:

Research and development and/or production of hardware/software in the railway sector

Technology Offer

Smart waste management tool based on real-time data.

Summary

A Southern Spanish SME, active in the field of Telecom, has developed a tool for optimising collection routes by constantly monitoring the content level of waste containers. By installing sensors in the containers, it's possible to be alerted for collection based on container content level or temperature variation. They are seeking IT companies, Research Centers and Public Administrations for different types of agreements: commercial with technical assistance, technical/research cooperation.

Creation Date 03 November 2016
Expiration Date 15 February 2018
Reference TOES20161028001
Profile link

Details

Description

Treatment and management of garbage are one of the most important issues that any Public Administration (mostly Local) has to deal with.

It involves large expenditures (investment costs, operational costs and environmental costs) and shows a high impact on the quality life of citizens and in the environmental conditions.

Planning the collection of solid urban waste is based on predefined routes and experience, causing unnecessary costs and underuse of equipment. Often empty containers are collected and full containers overloaded, causing an increase in cleaning costs.

A Southern Spanish SME, very active in the field of Telecommunications and settled in a Technology & Science Park, has developed a novel waste collection, monitoring system to plan, monitor and select the optimal route for garbage trucks based on real time traceability data.

This system optimizes collection routes by constantly monitoring the content level of waste containers.

By installing sensors in the containers, it is possible to receive real-time alerts for collection based on container content level or for temperature variation (fires) enabling a reduction in damage liability and response time.

This innovative solution applies innovative concepts in this field, making it more dynamic and adapted to technologies that have been developed in laboratories such as WSN (Wireless Sensors Network) and GPS (Global Positioning System) and some other communications technologies which are rising right now in IoT (Internet of Things) like Sigfox, Lora, Narrow Band.

The system is made of 2 components:

1. The monitoring device installed inside the containers. It is responsible for gathering real-time data turning every container into an active and intelligent element. Each sensor is capable of measuring the filling level of the container autonomously, the interior temperature or detect a sudden movement. Each device can be configured remotely via client-enabled website.

2. Online management platform (Software as a Service (SaaS) model) with the following features:

Cloud data repository.
Dashboard and remote configuration of devices.
Web application developed with latest technologies.
Monitoring information.
Alerts.
Reports.

The key fact in this solution is having information about the replenishment level at each bin and therefore, based on this information, reorganize the collection route, the containers' location, change the time of the collection... to optimize the management in order to save energy, fuel and avoid people inconveniences related to waste collection (noise, smells, traffic collapses...).

This system is specially adapted to inorganic garbage like papers or glasses, packaging, clothes among others.

Current and Potential Domain of Application:

- Garbage management in Smart Cities.
- The solution can be applied to many other contexts like management of stock or supplier chains.

The Spanish SME is interested in getting in contact with several types partners. Collaboration to be approached would depend on the partner needs or type:

- a) Final users (Public Administrations - areas of Cleaning and waste management), are sought for commercial agreements with technical assistance according to their needs.
- b) ICT services and/or sensing firms will contribute via technical cooperation or commercial agreement with technical assistance.
- c) Research Centres are sought for collaborative Research projects.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partners sought:

Companies, SMEs, Research Centres, Public Administrations.

Specific area of activity of the partner:

- a) ICT services and/or sensing in case of companies, SMEs or Research Centre.
- b) Cleaning or waste management in case of Public Administrations.

Tasks to be performed by the partner sought:

a) In case of final users (Public Administrations), the partner sought will provide his specific needs for customisation and implementation of the technology by the Spanish SME or any other technical partner. They would contribute to dissemination of the technology as a best practice of route optimization services. Commercial Agreements with technical assistance are sought for this type of partner.

b) ICT services and/or sensing firms will contribute via technical cooperation or commercial agreements with technical assistance in terms of: dissemination, technical consultancy, technical support, maintenance and join upgrading of the technology (if necessary)

c) Research Centres will cooperate in terms of collaborative research projects that might contribute to dissemination or upgrading the technology.

Type and Size of Partner Sought

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

Technology Offer

Innovative static solution for biometrics based on iris recognition

Summary

A Southern Spanish SME, active in electronics sector, has developed an innovative biometrics device which is based on iris recognition and makes use of their own advanced algorithms to identify users among thousands of enrolled ones. It works from a long distance (0.5m-3 meters) and can compare from 1 to n and infinity in just 2 seconds. They're interested in commercial agreements with technical assistance with security services providers, institutions and public administrations.

Creation Date 02 November 2016
Expiration Date 27 February 2018
Reference TOES20161028002
Profile link

Details

Description

A Spanish technology based SME very active in the fields of presence control and biometrics has recently developed a novel biometrics device.

The device is based on advanced iris recognition algorithms developed by the Spanish SME. This will help to identify specific users(people) among thousands of enrolled ones.

Main features of the technology are:

1. The solution has been specially designed to recognize items from short to long distances (0.5m up to 3 meters).
2. The device can make comparisons (1 to n and infinity) in just 2 seconds from a database of which contains thousands of users. This database could be located into the device or remotely on a server.
3. Flexible height range (from 1.45 meters to 2-meter)

Other technical features are:

- * Minimum user interaction.
- * Gesture recognition system, face and location.
- * Possibility of combination with other identification technologies: RFID card, smartcard, vascular identification biometrics, face recognition, etc.
- * Access control and permissions options.
- * Integration with security cameras. Automatic recording as detected alert.
- * Infrared light. LED illumination.
- * Display TFT LCD Display 7" (client customized environment)
- * Ethernet cable 10/100/10000
- * Operating temperature range: -5°C / 45°C

The Spanish SME is interested in commercial agreements with technical assistance with several type of partners:

- a) Security services providers to promote, install, provide technical support and maintenance of the technology.

b) Final users like institutions and public administrations. Their interest would be based in setting up a reliable security control.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partners:

Companies, SMEs, institutions & public administration.

Role of partner sought will depend on the type of partner:

a) Companies and SMEs that provide security services (installation, integration, technical support and maintenance of security technologies, alarm installers...) are sought for collaboration in terms of: dissemination of the technology in their area, inclusion of the technology in their portfolio, installation and configuration, technical support and maintenance.

b) Final users like institutions and public administrations interested in setting up a reliable security control.

They will provide their specific needs for a customised configuration and installation of the technology. Maintenance will be also provided.

Type and Size of Partner Sought

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

Technology Offer

Novel set of IT tools for monitoring and objectifying the table olives elaboration process

Summary

A Southern Spanish SME, provider of IT services to the agriculture sector, has developed a novel set of IT tools comprising hardware, software and app capable of fully monitoring and objectifying the process of elaboration table olives. This tool contributes positively to environmental and economic impacts as well as a better product quality. The SME is interested in getting in contact with industrial companies of table olive production for commercial agreements with technical assistance.

Creation Date 07 February 2017
Expiration Date 15 February 2018
Reference TOES20170207001
Profile link

Details

Description

Currently, the process of elaboration of table olives is based on subjective methods, mainly by the experience of the technical manager.

According to the state of art, there isn't any tool capable of objectifying this process at 100% accuracy. The Southern Spanish SME has approached with the concept of industry 4.0 sector, since all the stages of the process are monitored on-line and real-time as well as analyzed thanks to the tool they have developed. The results obtained are converted into knowledge through Big Data techniques.

This tool is an easy-to-implement user-friendly system that only requires a device (similar size to a small printer) and a tablet with an Internet connection.

This set of IT tools can be used for the process of elaboration of the 3 major varieties of table olives: sevillian green style, natural black and black ripe, so that any company can benefit from this new system.

For each production stage, different measures are taken and processed using analysis software which yields data on the evolution of the process over time in order to optimise it. The tool can predict the end of the process to produce the best-quality final product.

All collected information is uploaded to a cloud server that is available online in real-time to both the client manufacturing staff and technicians working outside the client facilities.

In this way, communication is continuous and any failure in the production operations can be easily avoided or solved. In addition, this improves the quality of the decision process and therefore the quality of the olives.

The Spanish SME is interested in approaching table olive processing companies for commercial agreements with technical assistance. They should need optimisation of their manufacturing processes.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The Spanish SME is interested in getting in contact with table olive (Sevillian green olives, green, natural black, or black ripe.) processing companies. They should carry out the entire process of elaboration. Private or cooperative companies of 1st or 2nd degree are welcome. Commercial agreements with technical assistance is sought by this industrial company to optimise their manufacturing processes.

Type and Size of Partner Sought

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

Technology Offer

German IT company specialized in the digitisation and automation of processes offers its service

Summary

The German company is specialised in processes' digitisation and automation and is looking for partnerships in sectors such as automotive, logistics, food and beverage industry or media via a commercial agreement with technical assistance or services agreement. The company is offering a wide range of IT services and provides its customers with the best adequate solutions in terms of enterprise content management, documents management, business intelligence, web applications and app development.

Creation Date 13 February 2017
Expiration Date 23 February 2018
Reference TODE20170213001
Profile link

Details

Description

The German company is providing IT services that are aiming at accelerating recurring processes through digitization with subsequent automation and at mastering new challenges efficiently and reliably with innovative tools. The process digitization of the company's customers always depends on their individual requirements.

The company offers the following IT services to its customers:

- Enterprise content management: allows the customer enterprise to distribute central saved information to the right target group.
- Document management: helps the customer to intelligently manage his enterprise documents in order to digitize and optimise processes.
- Business intelligence: provides the customers enterprise with a efficient set of strategies, processes, applications and data allowing the collection, analysis and presentation of business informations relevant to the company's progress and evolution. For this the company is mainly using QlinkView and BIRT.
- Web application: creating specific user interfaces for unique requirements of the customers
- APP- development: offers an independent platform and native mobile solution for several platforms (HTML5 (Webapps),iOS,Android, Windows Phone, Blackberry.

The company proposes its above mentioned services upon request and based on the clients specific requirements and needs for business partnerships through a commercial agreement with technical assistance or services agreement.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The German company looks for business partners in different industries: automotive , logistics, food and beverage industry or media (newspaper /TV) that are planning the digitization and automation of their business processes.

The business partnerships sought include commercial agreements with technical assistance or services agreements for the implementation of the companys services and software solutions

Technology Offer

Genetic technologies for multi-purpose environmental bioassessment and biomonitoring: environmental DNA tests

Summary

A Swiss SME developed fast, accurate environmental DNA tests for environmental bioassessment/monitoring. The minimally invasive technology is based on next-generation sequencing and proprietary algorithms for data mining. DNA/RNA derived naturally from resident species of an ecosystem are analyzed, the resulting genomic data is processed to assess the ecological status of the environment. Technical, research or services agreements with companies, agencies are sought to implement tests.

Creation Date 01 March 2017
Expiration Date 06 March 2018
Reference TOCH20170301001
Profile link

Details

Description

Natural resources are essential to economic growth within many productive sectors, but long term competitiveness can only be achieved through their rational and responsible use. To ensure that the biodiversity and delicate equilibrium of natural ecosystems is preserved, all productive activities should comply with national regulations.

The Swiss company developed new environmental DNA (eDNA) tests to satisfy environmental requirements in all productive sectors and hence secure long-term business competitiveness through the responsible management and use of natural resources.

The SME applies latest next-generation sequencing (NGS) technologies to detect a large range of indicator species and use proprietary algorithms to provide complete biodiversity inventories in all types of environmental samples (water, sediment, soil). The company can monitor real-time environmental changes by detecting only metabolically active organisms (environmental RNA), and longer term changes by analyzing DNA present in the environment (eDNA).

The broad range of tests comprises:

- identification of resident species in aquatic ecosystems
- analysis of benthic community composition
- detection of rare, invasive or pathogenic species

Typical applications of the services include:

- evaluating the quality of aquatic ecosystems
- assessing regulatory compliance for eco-labeling

- monitoring the spatial and temporal impact(s) of industrial activities
- assessing the biological 'health' of seabed habitats
- deep-sea biodiversity studies
- analyzing ballast water

Future applications the company foresees include:

- tracing the authenticity and origins of trade goods
- identifying bio-indicators of climate change

The Swiss company seeks partners like environmental protection agencies, environmental consulting companies, research institutes, aquaculture companies and any industrial partner that needs biodiversity surveys or environmental impact assessments in fresh water and marine ecosystems for research, technical and services agreement.

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Partner Sought

Type and Role of Partner Sought

The specific area of activity of the partner:

The target audience includes, but is not limited to, environmental protection agencies, environmental consulting companies, research institutes, aquaculture companies and any industrial partner that needs biodiversity surveys or environmental impact assessments in fresh water/marine ecosystems e.g. off-shore drilling and deep-sea mining companies.

The tasks to be performed by the partner sought:

The potential partner shall have expertise in environmental surveys in marine/fresh water ecosystems and shall be able to identify technical and regulatory barriers so that eDNA tests can be integrated into routine monitoring.

Services agreements:

The Swiss company is seeking partners for service agreement or subcontracting of environmental impact assessment projects.

Technical agreement: The Swiss company seeks partnership with laboratories or companies that have experience in developing and commercializing automated solutions and tests in life sciences and molecular diagnostics to propose specific tests for water quality and for invasive/rare species detection.

Research agreement: The Swiss company seeks partnership with universities or R&D institutions which have complementary research capacities in applying next-generation sequencing (NGS) and artificial intelligence (AI) to establish molecular bio-indices.

Type and Size of Partner Sought

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

Technology Offer

Energy recovery system for lifts in direct current

Summary

A Spanish technology centre with a wide expertise in the elevation sector has developed a load module that saves the energy produced by the elevator when braking. This energy is stored in an ultra-capacitors bank and is supplied to the elevator auxiliary systems. The device reduces energy consumption in stand-by phases and improves energy classification. The centre would like to licence this patented technology to a partner working in the lifting sector.

Creation Date 24 February 2017
Expiration Date 06 March 2018
Reference TOES20170224001
Profile link

Details

Description

A Spanish technology centre with a wide expertise in elevation and lifting systems has developed an energy-saving module for lifts working in direct current (DC). This module saves the lift energy generated when stopping in order to use it afterwards for the lift's auxiliary elements. The energy is stored in an ultra-capacitors bank, allowing to reduce energy consumption in stand-by phases and improving energy classification. The saving module may be connected to any kind of frequency converter attached to a lift engine.

The module may provide the stored energy both when the lift is in operation and when it is at rest. Its use is particularly important in residential lifts, due to the important consumption of the lift in stand-by mode in this case.

This technology reduces the consumption of electric energy by 10 to 20%, which can increase the elevator's energy rating classification.

The developed energy recovery system has the following features:

- Modular system adaptable to different elevator power levels
- Variable power supply to the auxiliary systems (24V DC / 48V DC)
- Can be used with any frequency converter and doesn't need the use of any transformer (involving cost reduction).
- It is a scalable development that allows its use in high power elevators thanks to the connection of several modules in parallel.
- It is a plug and play system which makes it easily installable and can be used with various types of elevator.
- Both for rehabilitation and renovation of elevators and for new elevators.

The technology is already patented and the technology centre would like to transfer it through an operating license to a company working in the elevation sector. This company would take care of integrating the module in its elevators or including it in its portfolio.

The licensing company should have a minimum level of development skills in order to take care of further changes and adaptations to its clients' requirements and of post-sales service and other maintenance activities.

As part of the licensing agreement, the technology centre will also transfer the technical knowledge required to sell or to use this technology. In addition, it might be possible to include further technical assistance if required.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought:
Industry (big company).

Specific area of activity of the partner:
Looking for a partner in the elevator sector, which sells elevator components to elevator operators or sells full installations.

Task to be performed:
Integrate the module in its own elevators or include it in its portfolio. The company should also acquire the technical knowledge required to sell or to use this technology, to develop further changes and adaptations to its clients' requirements, and to offer post-sales and maintenance services.

Type and Size of Partner Sought

>500 MNE, 251-500, >500

Technology Offer

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

Summary

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

Creation Date 27 January 2017
Expiration Date 07 February 2018
Reference TOIT20170119001
Profile link

Details

Description

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

Over the last 8 years, the working team gained experience in other companies on PhotoVoltaics and bioliqid cogeneration, with 5 vegetable oil Combined heat and power (CHP) running.

The company is actually focused on biomass gasification, and has concentrated its efforts in the design and the development of a small sized reactor for low tar syngas production and a double-stage syngas cleaning system.

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

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

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

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

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

activities that require a considerable amount of thermal energy.

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

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

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

Financial sources are sought too.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Commercial agreement with technical assistance

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

Licence Agreements: licensed production and sales

Companies interested in building the CHPs under license agreements and proper tutoring,

wherever its more profitable local production and sale compared to export.

Research cooperation agreements

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

Financial agreement

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

Type and Size of Partner Sought

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

Technology Offer

Virtual Reality Based Evaluation of Mental Disorders

Summary

A Spanish company, a beneficiary of the SME Instrument, has developed a virtual reality platform for the diagnosis of mental conditions that create immersive environments. The platform can provide the patients with a combination of multiple stimuli and can also measure real-time multiple data generated by the patients' reactions to the latter. The company looks for a partner to do, under a collaboration research, the neuropsychological test via the VR platform.

Creation Date 20 December 2016

Expiration Date 06 February 2018

Reference TOES20161130002

Profile link

Details

Description

Mental disorders and neurological conditions affect at least a 20% of the worldwide population during a lifetime. A new system for the evaluation of mental disorders, based on the use of virtual reality (VR) environments has been developed. This technology is able to clinically validate and perform innovative diagnosis procedures that simply couldn't be done up to now. The patient wears virtual reality glasses and headphones and is introduced into different virtual environments, each one specifically designed to diagnose a particular family of mental disorders. Through these virtual environments, the patient experiences multiple expected and unexpected stimuli, is proposed to execute different actions and asked to respond to different questions. At the same time, the system monitors the reactions of the patient and registers multiple variables.

The product is an H2020-SMEInst-2016-2017 project granted to a Spanish company in 2016. The aim of this project is to prove both clinically and commercially, the higher performance of virtual reality environment based diagnosis systems for mental disorders. The product is meant for children and adults and can be validated by anyone who will use it.

Four different tests have to be gone through: one is already developed and in the market, the other three are in the development stage in Technology Readiness Level (TRL) 8, 7 and 6 respectively) for the evaluation of the attention, executive function, memory and mild cognitive impairment, respectively.

Normative and clinical studies of these tests will be carried out in collaboration with relevant peers internationally in USA, Latin America and other European countries. Normative studies will be held in order to establish a normal curve in the execution of the test with the objective to represent the population in which we are going to use the measurement, and from which we will extract the rules that will be used in the diagnosis. The study assesses if each subject is within the rule or not, and in its case in which parameters differs and how much. The whole set of operations, questions, interruptions and virtual environment, and the responses of the patients

are clinically studied and included in the normative studies developed for the validation, standardization and homologation by practitioners', scientific and health authorities, exactly like what is done in the case of conventional tests. On the other hand, the clinical studies are performed over people with different pathologies that validate the test in regions, cultural groups, situations or any grouping of people.

The studies can measure the accuracy of the test, validity, sensibility and specificity for detection of pathologies.

For the achievement of these studies both clinicians currently in practice of their profession and other socio-sanitary professionals from USA, Latin America and Europe should be involved in the project.

The partner should be interested in the assessment of the cognitive processes with a virtual reality system. Two profiles with different tasks are requested to the partners, one for the normative studies and the other for the clinical studies. Research collaboration agreement is sought.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

According to the type of study, two profiles with different tasks are requested to the partners:
For the normative studies: Any professional from the socio-sanitary sector dealing with people without mental disorder pathologies. Their task will be to carry out a neuropsychological evaluation with the system (with one or several of the tests, depending on their profiles, capacities and interests) with people with pathologies.

For the clinical studies: Clinicians dealing with mental disorders. Their task will be to carry out a neuropsychological evaluation with the system (with one or several of the tests, depending on

their profiles, capacities and interests) with people without pathologies.

In general, the partner should be interested in the assessment of the cognitive processes with a virtual reality system.

The compensation for the participation in these studies will be the system: Hardware (Samsung Gear VR Goggles, Samsung Galaxy S7 Smartphone and Flic Bluetooth button) and Software of the 4 different tests. Also, the scientific publications of the studies will be done in collaboration.

Type and Size of Partner Sought

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

Technology Offer

Laboratory-scale device to measure gas diffusion coefficients in real conditions

Summary

A Spanish university has developed an automatic device to determine gas diffusion coefficients of single gases from a gas mixture under atmospheric conditions. It works in a wide range of relative humidity and temperature conditions. This non-destructive procedure allows to calculate the gas diffusion coefficients for permeable/porous material samples with different sizes and nature. The university is interested in licensing and technical cooperation agreements.

Creation Date 10 February 2017
Expiration Date 22 February 2018
Reference TOES20170210001
Profile link

Details

Description

Diffusion is the movement of a molecule in a gas mixture as a consequence of an existing concentration gradient and it constitutes the principal gas transport mechanism through porous materials. Diffusion is quantified through the gas diffusion coefficient (GDC) of the gas. In porous materials, this coefficient depends on the material type, its pore structure and its water content.

Although there are some different methods for measuring GDCs, most of them run under constant conditions, which cannot be modified. Thus, for example, temperature conditions or the volumetric water content in the samples cannot be varied during the tests. Therefore, the influence of some parameters, such as relative humidity or temperature, on the GDC cannot be properly established, despite being of paramount importance.

In order to solve the above mentioned problems, a Spanish research group has developed a device and a method that allow to determinate GDCs of, at least, one gas in a gas mixture (either, homogeneous or heterogeneous), when the gas moves through a porous or permeable material. The material can be tested under different conditions, such as the degrees of compaction (soils, rocks, concretes, synthetics materials, etc.), humidity and temperature. This device is able to reproduce real conditions at laboratory scale.

The sample is placed in a sealed cell between two differentiated vertical chambers. An automated injection of the gas under study is performed in one of the cells, keeping the gas concentration constant in this chamber during the whole procedure. Several probes for measuring the gas concentration, relative humidity and temperature are installed in each chamber. The diffusion process is well guaranteed due to the concentration gradient between the two chambers.

To determine the gas diffusion coefficient, the laboratory-scale device works following the gradient method. This method assumes that gas flow across the soil achieves a steady-state even though the gas concentrations in the chambers change over time. The device has an automatic control system to guarantee the experimental conditions set up by the user and a valves system, which allows the gas inlet and outlet (Figure 1).

This device has been designed in order to determine GDCs in a wide range of environmental conditions and for multiple samples with different size and composition (soils, rocks, concretes, synthetic materials, etc.). Thus, it could be useful for different applications, such as:

- Construction materials analysis.
- Geochemical gases prospection.
- Geochemical studies of the gaseous movement through soil and rocks.

Since this technology is protected under patent application, the Spanish research group is mainly looking for companies interested in the commercial exploitation of this invention through licensing agreement. However, the research team is also open to other technical cooperation agreements with companies in order to further develop the device at industrial scale, to adapt it to their necessities or to seek new applications.

Network Contact

Issuing Partner

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: Companies
- Specific area of activity of the partner: Materials science, construction materials, geochemistry,

geology.

- Task to be performed: Commercial exploitation of the technology; jointly collaborate to adapt the device to their particular requirements, to test it at industrial scale or help the research group find new applications.

Type and Size of Partner Sought

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

Technology Offer

Portable 3D microscope with size of a camera

Summary

A Spanish university has developed a portable 3D microscope with a spatial resolution better than the one obtained with other microscopes, with a very small size. It can be used in bio-medicine and for quality control of microelectronics. Microscope manufacturers are sought to reach license agreements.

Creation Date 14 February 2017
Expiration Date 21 February 2018
Reference TOES20170214003
Profile link

Details

Description

The problem of obtaining three-dimensional (3D) images of microscopic samples is generally solved by taking numerous images after an axial scanning process, as in the case of Light-Sheet Microscope or Structured-Illumination Microscope. An alternative to these techniques is the Digital Holographic Microscopy (DHM) which does not require performing the scanning of the sample. However, DHM only applies to the case of transparent samples under coherent illumination. More recently, the implementation of integral microscopy (iMic) (also known as plenoptic microscopy or "Lightfield" microscopy) has been proposed. The main feature of iMic is its ability to record 3D information of thick samples without requiring more than a single shot. The iMic is based on the simultaneous capture of a series of (vertical and horizontal) views of the sample. This is achieved by placing a microlens array in front of the sensor. However, at present, the images obtained by this technique show a spatial resolution that is significantly worse than the spatial resolution of standards of microscopes.

Researchers from a Spanish university have developed a novel iMic that achieves a spatial resolution better than the one obtained with other integral microscopes. The invention has a high depth of field and it has the possibility of implementing the microscope in a very small size, compared with conventional Integral microscopes. Specifically, the technology allows the manufacture of portable 3D microscopes with size of a camera.

The invention is applicable mainly in two sectors:

- (a) Bio-medicine, particularly for obtaining images in which the profile of the sample is of interest, or in which a depth section view is necessary;
- (B) Profilometry, for quality control of microelectronics and semiconductors, intra-ocular lenses and microlens testing, forensic science, etc.

Researchers are looking for companies interested in license agreements to manufacture the microscope.

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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: Microscope manufacturers
- Task to be performed: License agreements to manufacture and market the microscope.

Type and Size of Partner Sought

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

Technology Offer

Fast and cost-effective computational chemistry methodology to find novel hits on cancer chemotherapy

Summary

A Spanish research group is offering a brand-new solution in the field of drug design and discovery related to cancer. Thanks to an innovative chemo-informatic methodology based on molecular topology and original software, it can boost the entire process of "hit and lead" compounds identification. The research group, whose has a wide international experience, is looking for companies and research centers interested in using this software via service agreement.

Creation Date 14 February 2017
Expiration Date 28 February 2018
Reference TOES20170214002
Profile link

Details

Description

A Spanish research group, with many years of experience in the field of drug discovery, has a high level of expertise in Molecular Topology (MT), a novel methodology in Computer Aided Drug Design (CADD). To understand the advantages and differences between MT methodology and conventional CADD, it is necessary to remind that drugs (usually small molecules) interact with specific receptors (usually large molecules i.e.: proteins), as a key fits into a specific lock. Consequently, the vast majority of drug design methods require a quite comprehensive knowledge of the structure of their receptor (the "lock") to find a new drug (new "key"), which may interact with it.

The MT algorithm developed by this research group, only requires information about the structure of a single "key" capable to open a given "lock" to design other novel active drugs. MT algorithm does not need information about the "lock" itself.

The main advantage is the capacity to discover novel cancer "hit and leads" compounds by a direct link between chemical structure and anticancer activity. This fact enables to avoid a previous knowledge of the mechanism of action (MOA). The MOA can be investigated later or it can even be deduced from the mathematical models themselves, which leads to considerable save of time and cost.

Using only this original methodology (with proprietary software), the research group has discovered more than 150 new "hit and lead" drugs in several areas: analgesic, antimicrobial (antibacterial, antimitotic, antiviral), nutrition (hypolipidemic and hypoglycaemic), asthma (bronchodilator), oncology (antineoplastic), infection (antimalarial) and neurology (anti-Alzheimer), some of them being in preclinical validation. Altogether, the group has published over 150 articles in high-level international journals, as well as congresses' communications, Ph.D. direction, etc.

The methodology is based on the use of molecular (basically topological) descriptors, most of which have been introduced by this research group.

In the field of cancer the group has achieved several milestones, including two compounds that were patented in the US and other countries, which were active on the 60-cell line panel of NCI (National Cancer Institute-US). Particularly, the two compounds were active on non-small lung cell cancer in vivo (mice) with more efficacy and less toxicity than Cisplatin (the reference drug). Moreover, one of these compounds has also been active in pancreatic cancer.

In summary, the services offered by this research group cover the integration of several skills:

- o Discovery of novel cancer chemotherapeutic hits and leads using an “in house” software, by QSAR (Quantitative Structure-Activity Relationships) based on MT.
- o Physico-chemical, ADME (Absorption Distribution Metabolism Excretion) and toxicity predictions.
- o Side-effects predictions.
- o High-throughput virtual screening and ex novo-design solutions to discover novel cancer hits and leads (including natural, synthetic or semisynthetic molecules).
- o Repurposing: investigate existing drugs to treat different types of cancers.

The research group offers computer-aided drug design services, via services agreement, for companies and research organisms interested in developing novel cancer therapeutics via this, new fast and cost-saving way.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The research group is looking for companies and research centers interested in developing new innovative cancer chemotherapeutic agents via computer aided drug design.

Type of partner sought: Pharmaceutical companies, Biotech based companies, Research centers specialized in developing new cancer therapies. ICT companies specialized in computer aided drug design

Specific area of activity of the partner: Pharmaceutical, Biotech, Health, Chemical synthesis, e-Health and ICT-Health.

Task to be performed: Hiring the consultancy services for developing their own molecular compounds and new therapies using MT methodology of this research group

Technology Offer

Spanish company with advance drone systems for fumigation and pest control in agriculture seeks commercial agreement with technical assistance.

Summary

A Spanish SME specialised in telecommunication operator works with advanced drone systems, specially designed for fumigation and pest control in agriculture. The company provides systems based on aerial spraying drones that can be controlled via satellite. The company seeks industrial partners in agriculture, forestry, fishing and livestock sectors for commercial agreement with technical assistance and services agreement.

Creation Date 01 February 2017
Expiration Date 07 February 2018
Reference TOES20170201001
Profile link

Details

Description

Spanish company belong to satellite telecommunication activity with over 15 years of satellite industry experience, and presence in 18 countries.

With the use of Internet and VoIP field, generates solutions that include the design and commercialization of:

- Broadband connectivity by any means, especially satellite links
- Content optimization for broadband solutions
- Internet and VoIP worldwide broadband access for vessels
- Heterogenic Platform Integration
- Broadband Content Packaging via satellite for multicast networks
- Restricted access to the content manager

At the same time, the company build heavy duty drones for hauling, inspection or audiovisual recording.

The Company offers advance drone services, use unmanned aerial vehicles (UAV) to provide a fumigation service, fast and effective. They have develop two diferents vehicles:

1.a machine designed for the precision agriculture, is able to spray with great precision 100 liters of product in one flight time with the best security measures. With a work efficiency 2-3 ha per hour.

2.a machine designed for precision agriculture is capable of loading up to 18 liters of product with the most advanced safety and hygiene measures, and pulverize it where necessary. With a work efficiency 10 ha per hour.

Both machine can fumigate with precision in manual and automatic mode, are adaptable to all types of crops, trees and meadows and non-contaminant and environment friendly service
It is possible arrange a test with the Company and see it live.

The company is looking commercial agreement with technical assistance, and services agreement for offering support and technology transfer.
The company seeks industrial partners in agriculture, forestry, fishing and livestock sectors.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company is looking commercial agreement with technical assistance, and services agreement for offering support and technology transfer.
The company seeks industrial partners in agriculture, forestry, fishing and livestock sectors.

Type and Size of Partner Sought

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

Technology Request

A Chinese environmental protection engineering company is looking for German experts who have technology in pulverised coal boiler

Summary

A Chinese environmental protection engineering company specialises in research/development/manufacture of new type high efficiency industrial pulverized coal boiler system. It seeks the whole system design of the industrial pulverized coal boiler from Germany for commercial agreement under technical assistance.

Creation Date 06 February 2017
Expiration Date 13 February 2018
Reference TRCN20170206001
Profile link

Details

Description

This company was established in December 2014, with a registered capital of 1 billion RMB, more than 10, 000 employees, and is among the world's top 500 enterprises. With Poland, Sweden, Germany and other countries to carry out extensive cooperation in advanced enterprises, the overall size and comprehensive strength ranked the forefront of China's coal machine manufacturing industry. Relying on excellent brand and advanced technology, their products meet the needs of domestic customers, sold to South Asia, Southeast Asia, West Asia and the Americas, Oceania and other countries.

A period of time in the future, they will vigorously develop the equipment manufacturing, manufacturing and modern service industry, focusing on promoting the development of internationalization, high-end products, to create "billions of enterprises", the construction of the internationalization of the large-scale energy equipment manufacturing group. Efficient industrial system of pulverized coal boiler products comply with the urgent situation of energy saving and emission reduction and policy guidance, is the upgrading of traditional products of high pollution and high energy consumption of industrial coal-fired boiler, gas boiler, oil substitute is ideal. High efficiency pulverized coal boiler system has the advantages of high efficiency, high level of pollutant emission control, moderate investment, simple operation and low operating cost. They seeks whole system design of the industrial pulverized coal boiler includes the special shape of the main body of the boiler shell type fire tube boiler from Germany experts and wish to conduct commercial agreement under technical assistance.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Assignment target data (start/end),and duration

January 2017, period of two years

Location of assignment

Dongdu Town, Xintai City, Tai'an City, Shandong Province, China

Expert qualification required (professional linguistic, etc)

The whole system design of the industrial pulverized coal boiler includes the expert English exchange of the technology optimization and improvement of the special shaped large hearth shell type fire tube boiler.

Other information

(Working conditions and accommodation problems, such as salary and welfare, office, translation, technical assistant, living conditions, diet, spouses and children solutions)

Technology Request

Aircraft Wake Turbulence Prediction

Summary

A Technical University from Romania is looking for research partners in the field of Space and Aerospace applications. The aim of the research is to develop and validate an improved numerical model for the simulation of the near wake occurring downstream a wing, the near wake breakdown and the formation of the two counter rotating vortices. The partners sought are innovative SMEs and R&D performers in the field of Space and Aerospace for technical cooperation in EU/Intern. R&D Programs.

Creation Date 31 January 2017
Expiration Date 06 February 2018
Reference TRRO20170131004
Profile link

Details

Description

The terms “wake turbulence” and/or “wake vortex/vortices” describe the “effect of two rotating air masses generated behind the wing tips of aircrafts” (ICAO DOC 9426). The wake turbulence is a by product of lift and thus it is associated to every aircraft in flight.

The partners sought are innovative SMEs and R&D performers in the field of Space and Aerospace applications in EU/International R&D Programs.

Technical Specifications / Specific technical requirements:

The strongest vortices are produced by aircrafts flying slowly with flaps extended (ICAO DOC 4444). Further, the strength of the vortices diminishes with distance (and time) behind the generating aircraft. These vortices are hazardous to the following aircrafts mainly during take-off, final approach and landing

Current and Potential Domain of Application: The applications will cover the thematic area of Transport, Information gathering and services

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: Research entity
- Specific area of activity of the partner: Transport, Information gathering and services
- Task to be performed by the partner sought: Joint research and technical cooperation to develop and validate an improved numerical model for the simulation of the near wake occurring downstream a wing, the near wake breakdown and the formation of the two counter rotating vortices.

Type and Size of Partner Sought

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

Technology Request

Improving energy efficiency for campuses

Summary

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

Creation Date 31 January 2017
Expiration Date 06 February 2018
Reference TRRO20170131006
Profile link

Details

Description

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

Technical Specifications / Specific technical requirements:

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

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

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

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

Type and Size of Partner Sought

R&D Institution, SME <10

Technology Request

Nature inspired micro fluidic manipulation system

Summary

A Technical University from Romania is looking for research partners in the field of Nano and Microtechnologies. The current project deals with a completely novel method of fluid manipulation technology in micro fluidic systems, inspired by nature. The partners sought are innovative SMEs and R&D performers in the field of Nano and Microtechnologies in EU/International R&D Programs.

Creation Date 31 January 2017
Expiration Date 06 February 2018
Reference TRRO20170131007
Profile link

Details

Description

Although, initially, micro fluidics started as an engineering research domain, later on, it extended beyond the traditional area of development of inkjet head and pressure sensors to areas such as drug delivery, chemical synthesis, protein crystallization, cell culture, point-of-care diagnostics, genetic sequencing, drug discovery, genomics, and proteomics.

However, local fluid manipulation and/or mixing is very hard to achieve, i.e. the fluid in the micro fluidic system is driven or mixed in a global, uniform, sense. In many biosensors it would be very advantageous to be able to locally manipulate the fluid, i.e. to achieve local mixing or routing of fluids.

The current project deals with a completely novel method of fluid manipulation technology in micro fluidic systems, inspired by nature, namely by the mechanisms found in ciliates, that is an array of beating cilia over the external surface of micro-organisms or the surface of particular inner organs.

The partners sought are innovative SMEs and R&D performers in the field of Nano and Microtechnologies in EU/International R&D Programs.

Technical Specifications / Specific technical requirements:

The cilia-based micro fluidic system and the magnetic actuation mechanisms can offer these key advantages over the existing and known micro-fluidics principles

Current and Potential Domain of Application: The applications will cover the thematic area of Health and Robotics

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: Research entity
- Specific area of activity of the partner: Health and Robotics
- Task to be performed by the partner sought: Joint research and technical cooperation for completely novel method of fluid manipulation technology in micro fluidic systems, inspired by nature.

Type and Size of Partner Sought

R&D Institution, SME <10

Technology Request

Spanish logistics company is looking for drone technology applied to inventory and stock management

Summary

A Spanish company needs a drone technology to improve its stock management efficiency. The solution should be already developed and adaptable to logistics operations like inventory or stock checking. The company is looking for a commercial agreement with technical assistance and is open to develop a tailor made solution.

Creation Date 08 February 2017
Expiration Date 20 February 2018
Reference TRES20170208001
Profile link

Details

Description

A Spanish company specialised in logistics is looking for a drone solution designed to automate inventory-taking and inventory control in its warehouses.

The drone should be able to scan barcodes and to move around the warehouse autonomously without any operator controlling it.
The data should be sent to a database to contrast against the warehouse management system.
The aim is to save time, increase productivity and safety in inventory and stock control operations.

The Spanish company is looking for commercial agreement with technical assistance with a company able to provide a prototype or a solution already on the market.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The spanish company is interested in a commercial agreement with technical assistance with a SME able to provide a prototype of a drone able to scan barcodes without beeing controlled by any operator.

The partner should provide a solution already to the market or a prototype adapted to the company requirements.

Early stage innovations won't be considered.

Type and Size of Partner Sought

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

Technology Request

A Greek company is looking for partners to co-develop a decision support system (DSS) for the environment based on GIS and remote sensing

Summary

A Greek SME is dealing with geo-information systems, using high technology equipment and approaches. The company is looking for suitable technological partners to co-develop and co-exploit a decision support system (DSS) for environmental purposes. The company is looking for companies, experts in GIS and remote sensing for technical agreement. It is also possible a potential research project, in which researchers are also welcome, experts in mentioned areas and in DSS.

Creation Date 14 February 2017
Expiration Date 26 February 2018
Reference TRGR20170214001
Profile link

Details

Description

A Greek SME offers services related to photogrammetry, Geographic Information Systems (GIS) and remote sensing. The company offers an integrated 3D system for surveying, monitoring and modeling applied for sectors such as the environment, technical projects and building constructions. The company is equipped with innovative aerial monitoring infrastructure, and more specifically with a Light Manned Aircraft (LMA) and UAVs with a variety of applicable sensors, for earth observation and for recording critical environmental parameters. Raw imagery data is possessed through photogrammetric methods and the produced results such as orthoimaging (images containing spatial information in them about the surface depicted), 3D surface models, etc. can be further organized, processed and exploited in GIS and remote sensing applications.

The Greek company is seeking for partners with extensive experience in GIS and remote sensing for co-developing together a decision support system (DSS). The objective of this effort is to develop a DSS platform applicable to the field of environment. In more detail, the company is interested to initiate a GIS and web-GIS services or applications with ultimate purpose the development, distribution and dissemination of a GIS DSS for environmental protection purposes and social welfare.

Apart from the state of the art aerial monitoring infrastructure that the Greek company owns, the company at the same time, is capable to evolve the development of risk management systems in favor of public prosperity, human activity and environmental protection dealing with health and social issues, urban planning, agriculture, natural disasters, water, air and soil pollution and climate change caused by human actions. The company already develops an open source environmental and human health GIS DSS in the context of a H2020 project. The company also

performs national projects on DSS tools and creates innovative algorithms and routines in GIS, Web-GIS, remote sensing and photogrammetry sciences for automating processes and offering turn-key solutions with simple user interface to non-GIS and programming skilled end-users. Finally, advanced GIS services are offered for proper data organization, management, exploitation, visualization and modification at a variety of technical studies, such as hydrological networks, transportation networks, urban planning projects, etc.

The Greek company is looking for other companies, researchers or academia willing to co-develop the DSS platform. The requested partners should be dealing with GIS, remote sensing and DSS platform programming, having also the capacity to commonly exploit the platform for reaching their regional markets. The type of collaboration sought is technical cooperation agreement or in the case of a suitable EU funded topic, a research cooperation agreement.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Partners sought should be companies, new or long established with expertise in GIS and remote sensing, able to contribute to the co-development and co-exploitation of the platform. The partners should be related to the environmental sensing and data. The type of collaboration is technical agreement.

Research institutions or academia with proven expertise in GIS, remote sensing and in DSS programming skills are welcome but only in the case of a research cooperation agreement.

Type and Size of Partner Sought

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

Technology Request

Technical partner sought to convert eco-innovative bikes into E-bikes

Summary

A start-up based in Brussels developed a sustainable mobility solution of rental bikes with eco-innovative bamboo frames. The company is looking for companies for technical cooperation to develop motor, battery and control panel to convert their eco-innovative bike in E-Bike.

Creation Date 13 February 2017
Expiration Date 20 February 2018
Reference TRBE20170213001
Profile link

Details

Description

A Brussels-based Start-up developed bike with eco-innovative frames in Bamboo for renting and bike sharing service.

The company would like to develop further the service developing electric bikes with motor, battery and LED panel

Characteristics for the motor

central motor (bottom bracket mounted); 250watts; 25km/h with strength/speed/cadence captor; weight : +- 3-4kgs; extra connections for bikelights; assistance>45Nm

Characteristics for the battery:

9-11ah; 400wh-500wh; 36volts; fixation on frame if possible

Characteristics for control panel

3 to 4 assistance level;

LED display showing (time, range/autonomy, speed, distance covered, average speed); mounted on handlebar (left side) with walk assistance if possible

The company is looking for a Technical partner with knowledge of E-bike motors and lithium-ion batteries to develop and test the new E-bike

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Partner sought:

Companies or research centres with expertise in manufacturing and performing electric bikes, ebike kits, and lithium-ion batteries

Type and Size of Partner Sought

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

Technology Request

Off-grid solar system with stand-alone payment process

Summary

UK company providing bespoke technical solutions and consultancy services for sustainable energy generation and waste disposal is seeking collaboration for building an off-grid solar energy system with stand-alone "pay as you go" payment process designed for non-electrified areas in developing countries. The collaboration can be based on joint venture or technological cooperation agreement with other technological consultancies or solar systems manufacturers to customise or develop from scratch.

Creation Date 27 February 2017
Expiration Date 01 March 2018
Reference TRUK20170227001
Profile link

Details

Description

The rationale for the proposed technology lays in the ever growing need for affordable sustainably sourced energy in most of the developing countries – a solution that caters for low income earners and smallholders.

Over 1 billion people have highly unreliable connections to national electricity grids or are without access to reliable electricity. These consumers turn to costly and unhealthy energy alternatives, such as kerosene and candles for lighting, disposable lead-acid batteries for torches, and diesel to run generators.

As an example In Sub-Saharan Africa, 57% of the population lack access to electricity. In Nigeria alone, over 100 million people, or 55% of the population, are non-electrified, mostly living in peri-urban and rural areas. In contrast, mobile networks have become the predominant infrastructure, with over 85% of the population living within mobile coverage.

With high mobile coverage and a large non-electrified population in a good number of countries within the Sub-Saharan Africa, this UK-based company sees large potential for joint development and roll-out of an affordable and sustainable off-grid solar energy solution with stand-alone payment process to help alleviate the above energy problems.

The system would have a Machine-to-Machine connectivity enabling a remote monitoring, control, and data collection, with integrated PAYG ("pay-as-you-go") or similar stand-alone mobile payment process.

The proposed off-grid solar systems would be capable of:

- Producing varying output capacities (per unit) between 30 W and 150 W.
- Efficiently storing generated energy
- Using Pay-As-You-Go (PAYG) mobile technologies
- Using scratch card pin solution as an alternative to PAYG.
- Wireless Power Transfer (WPT) between units of proposed system
- Wireless processing of system information to a base control system

The company looks to collaborate on this project and share its benefits via joint venture or

technological cooperation agreement with other technology solution providers or solar systems manufacturers.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company is interested in joint development and technical cooperation with two types of potential partners:

- Where similar technology already exists to one that is being proposed, such template could be customised to meet this request.
- Where a complete solution does not exist, this is an opportunity to develop a new product from scratch with a committed solar systems company.

Technology Request

Embedded software for automotive networked sensors: communication interfaces

Summary

A Luxembourg based company is looking for start-ups developing solutions in the field of intelligent sensors, heating devices and actuators in the field of automotive communication buses. The company is ready to license existing solutions or set-up collaborative development projects. The company is looking for joint venture and/or license agreement.

Creation Date 13 February 2017
Expiration Date 14 February 2018
Reference TRLU20170213001
Profile link

Details

Description

With a 2500+ strong workforce, the Luxembourg company is a family-owned global supplier to the automotive and household appliance industry, with a worldwide sales structure and a manufacturing footprint in Europe, Asia and America. It has a decades-long trajectory in the field of electrical motors, actuators, heating devices and sensors, and more recently in the field of windscreen and headlamp washing systems and mechanical locks. Specifically in the field of sensors and heating devices, the Luxembourg company has a very strong market position, and is seeking to maintain its competitive edge for the years to come.

The company is seeking to locate companies with capabilities in the field of automotive communication buses and digital / multiplexed i/o interfaces (CAN, LIN, etc.) which can license ready-to-use software libraries and possibly also hardware blocks which the company can then integrate into its own embedded developments, thus saving the internal effort required to develop such libraries / hardware blocks, which, although being important, are somehow secondary to its main effort in the field of sensing and control hardware and software.

The company envisions the partnership with start-ups and/or companies in the form of licensing agreements of existing solutions, or collaborative development of specific, individual projects, focused on special needs, under exclusivity agreements as dictated by every business case.

The company is however open to consider other possibilities such as partial or total acquisition of companies it would consider as strategically positioned in the field and fitting within the R&D structure and strategy of the Group.

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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: start-up or established company
- Specific area of activity of the partner: development and commercialization of embedded software for automotive network sensors
- Task to be performed: provide ready-to-use solutions or develop custom base solutions

Type and Size of Partner Sought

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

Technology Request

Machinery, equipment and programs requested for medical devices manufacturing

Summary

The Romanian company, producer of medical equipment, is developing its technology capacity and searching for producers of few machinery, equipment and programs. The type of cooperation envisaged is commercial agreement with technical assistance and licensing agreement with technology providers.

Creation Date 01 March 2017
Expiration Date 06 March 2018
Reference TRRO20170301001
Profile link

Details

Description

The Romanian company is looking for the following new technologies to implement in its factory:

- Electrical safety tester for medical devices EN 60601 - SECULIFE ST MEDICAL;
- Industrial pneumatic spot welding machine;
- Paint booth - painting in electrostatic field with liquid;
- Digital oscilloscope;
- Digital hot air soldering station;
- Electrical power supply;
- Decade-resistant box;
- Multifunctional CNC machine STEPCRAFT;
- CNC plasma cutting system;
- 3 axis CNC Router;
- Laser cutting and engraving machine for plastics, leather, wood, MDF, etc;
- Hydraulic Abkant Press Machine;
- Hydraulic pipe bending machine;
- Semi-automatic linear heating and bending machine for plastics;
- Air compressor;
- Printer: UV LED FLATBED;
- Professional 3D Printer;
- LAPTOP - Intel Core i7-6820HK.

For these products the cooperation considered is commercial agreement with technical assistance.

Also the following programs are requested under licensing agreement:

- Altium Designer license - Standalone Commercial;
- Perpetual license;
- CADian MECH license.

For each item the technical characteristics are mentioned in the Technical Specification below.

As the company is preparing to apply for a call at the end of March 2017, it is in urgent need of products offer (bid) to include in its proposal. However, they are very determined to develop their production capacity and are working on the options.

The company having over 10 years experience is producing medical devices developed by a professional team of medical doctors, engineers and scientific team.

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

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Open for EOI : **Yes**
