

enterprise europe

# Boletín de Oportunidades de Cooperación: Emergentes

Boletín nº 142  
Abril 2016



Agencia Andaluza del Conocimiento  
**CONSEJERÍA DE ECONOMÍA Y CONOCIMIENTO**



## *Índice*

	<i>Búsquedas de socio</i>
RDLV20160308001	EUROSTARS-2 search for partner in the project application - an end user SME
RDFR20160302001	H2020 EE-07-2016-2017 - A French SME is looking for SMEs, universities and research organizations specialized in smart homes
RDLV20160308001	EUROSTARS-2 search for partner in the project application - an end user SME
RDGR20160303001	Development of a cluster in order to support social enterprises in all stages of the business cycle (BalkanMED call)
TOLT20160404001	Instrument for supply chain management

	<i>Demandas Tecnológicas</i>
TRKR20160407001	Request for optical technology of wide FOV(field of view) for VR(virtual reality) HMD(head mounted display) such as smart glasses etc
TRKR20160408001	Request for active camera lens cleaning system for cameras mounted on automobiles
TRRO20160404001	A Romanian company is looking for an acquisition line, for chlorine tablets production, in the disinfection domain
TRES20160307001	Looking for new technologies and applications to integrate in drones and develop public and civil solutions
TRES20151210001	Seeking technical cooperation with sensing engineering companies
TRFR20160321001	Partners sought in the field of agriculture and civil security to integrate existing sensor-based solutions into drones
TRKR20160408001	Request for active camera lens cleaning system for cameras mounted on automobiles
TRLT20160404002	A tool for solving problems in the credit assessment of the banks
TRLT20160401001	Tool for increasing organization effectiveness

	<i>Ofertas Tecnológicas</i>
TOSI20160330003	Protein degradation method for cleaning of textiles, surfaces, and equipment
TOSE20160201001	Swedish SME working with a system measuring uptime of machinery and production efficiency is looking for partners for distribution or license agreement
TOSE20160315002	Swedish company which has developed an innovative nozzle for sealant cartridges offers commercial agreement
TOPL20160304001	An innovative thermoelectric refrigerator designed for different means of transport is offered under license agreement.
TOUK20160315001	Industrial waste water treatment and water reuse technology

<b>TOLT20160226001</b>	<b>Modelling and simulation of thermolysis (pyrolysis) processes</b>
<b>TOFR20160301003</b>	<b>Innovative optical elements for lighting and building design products</b>
<b>TOIT20160125001</b>	<b>Anti Mosquito Fabric. New Start Up.</b>
<b>TOFR20160215001</b>	<b>Engineering expertise for flax-based product development</b>
<b>TODE20160201001</b>	<b>Partner sought for technical cooperation according an inspection device to capture long-distance heat duct (LDHD) and therein installed pipeline systems</b>
<b>TODE20160216001</b>	<b>Universal testing machine with electromechanical drive (nominal load 2500 kN)</b>
<b>TOIE20160315001</b>	<b>Technology to determine the level of Carbon Dioxide (CO2) dissolved in liquid within a sealed container and in pressurized transfer lines.</b>
<b>TOES20160201001</b>	<b>Controller Area Network (CAN) hub for high reliability and advanced testing in distributed control systems</b>
<b>TOUK20160229001</b>	<b>Optical vision system using head-up display technology for application in articles of headgear</b>
<b>TOUK20160303001</b>	<b>Novel pressure monitoring system for high voltage fluidfilled or oil-filled cables</b>
<b>TOBY20160216002</b>	<b>Technology of Wind Power Potential Analysis</b>
<b>TONL20160321001</b>	<b>Dutch SME with unique knowledge regarding the treatment of surfaces offers technical cooperation for development of new polymer materials</b>
<b>TOES20151215001</b>	<b>Multicapillary nebulizer for simultaneous nebulization of two or more liquids</b>
<b>TODE20160308001</b>	<b>Method and device for time encoding of ultrasonic impulses</b>
<b>TOUK20160324001</b>	<b>UK university developing a novel device for assessing macular pigment optical density seeks pharmaceutical producers, lens/medical device manufacturers</b>
<b>TODE20160316001</b>	<b>Non-harmful optical clearing of biological samples</b>
<b>TOES20151006002</b>	<b>Differential detection system over optical fiber based on Brillouin stimulated scattering</b>
<b>TOPL20151221001</b>	<b>A Polish company producing radiometric coal analyser enabling measurements of coal quality parameters is looking for technical cooperation partners</b>
<b>TOIT20160303001</b>	<b>App that links public bodies with the citizens</b>
<b>TOIT20160303002</b>	<b>App that makes easy the supplier choosing</b>
<b>TOSE20160226001</b>	<b>Machine learning for social networks: intelligent messaging for organisations</b>
<b>TOHU20160106001</b>	<b>New type of website content management system</b>

# Otras Tecnologías Industriales

## Research & Development Request

# EUROSTARS-2 search for partner in the project application - an end user SME

## Summary

*An SME from Latvia operating in the surface metrology field has developed a new generation ultra-high performance non-contact surface metrology instrument with capabilities well beyond of existing technologies. The company seeks an SME from France, Germany, Sweden or UK operating with micro/nano scale objects and facing surface measurement problems. The SME will be partner in Eurostars-2 program application - a tester/adapter/end-user of the technology.*

**Creation Date** 08 March 2016  
**Expiration Date** 14 March 2017  
**Reference** RDLV20160308001

## Details

### Description

The rapid development and miniaturization of consumer electronics demands new measurement challenges rising each year that existing metrology solutions cannot address. For example, the slightest deviation from the intended size of a smartphone's internal components can lead to thousands of smartphones being impossible to assemble.

The company is a surface metrology R&D company operating outside of Riga, capital Latvia. It has developed a new generation of ultra-high performance, non-contact surface metrology instrument based on a unique technology of white light optical interferometry. The company is going to develop a project proposal for Eurostars-2 programme.

An SME partner is sought for the project consortium. This SME will be an end-user of the technology, e.g. integrating it into their production line to address prevailing metrology needs, thus validating the technology.

Deadline of the call is September 15, 2016.

Deadline for expression of interest is July 15, 2016.

The expected duration of the project is two years.

### Advantages and Innovations

The profilometer offers a number of unique capabilities in comparison with the existing ones:

- A very high operating speed and large field of view, allowing the entire sample to be imaged quickly.
- A large step-height (vertical component view), for detailed analysis of discontinuous surfaces.
- The ability to make measurements from a distance up to 1 m, meaning that large surfaces can be measured with the instrument being moved, rather than very heavy objects having to be moved.
- An integrated anti-vibration algorithm that removes the need of additional, highly-expensive equipment to ensure measurement stability.

## Technical Specification or Expertise Sought

The company seeks industrial applications of the technology. The partner SME should be able to identify requirements and technical specifications, so that the profilometer can be adjusted and integrated into its manufacturing process.

## Stage of Development

Field tested/evaluated

## IPR Status

Secret Know-how, Patent(s) applied for but not yet granted

---

## Keywords

---

### Technology

03003	Apparatus Engineering
05003002	Optics
05005	Micro- and Nanotechnology
09001007	Optical Technology related to measurements
09001008	Other Non Destructive Testing

### Market

03007002	Other measuring devices
03007003	Other analytical and scientific instrumentation
08002002	Industrial measurement and sensing equipment
08006001	Process control and logistics
09003001	Engineering services

### NACE

M.71.2.0	Technical testing and analysis
M.72.1.9	Other research and experimental development on natural sciences and engineering

---

**Open for EOI :**    **Yes**

---

---

## Partner Sought

---

## **Type and Role of Partner Sought**

Type of partner sought: an SME facing a metrology challenge, operating in the field of development of metrology solutions or a provider of metrology services. The company should meet SME (<250 employees, <50 million EUR turnover and <43 million Balance sheet size) and other Eurostars-2 call criteria.

Tasks to be performed by the partner sought: To define technical requirements for solving the existing metrology challenges, to help specify how the profilometer has to be adjusted for integration into the production or service line and implement the technology.

## **Type and Size of Partner Sought**

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

## **Type of Partnership Considered**

Research cooperation agreement

## Research & Development Request

# H2020 EE-07-2016-2017 - A French SME is looking for SMEs, universities and research organizations specialized in smart homes

### Summary

*A French SME has developed a smart home innovative service enabling individual owners using electric heating system to manage their energy consumption. They are looking for partners for the H2020 EE-07-2016-2017 call. Requested partners are SMEs and sociology researchers with strong scientific background and/or deep knowledge in the field and with expertise in user interface. The partners will be in charge of analyzing and optimizing the link between smart home technologies and users' needs.*

<b>Creation Date</b>	18 March 2016
<b>Expiration Date</b>	23 March 2017
<b>Reference</b>	RDFR20160302001

### Details

#### Description

The solution developed is a smart home service which targets three main actions for the heating management for the individual house owners:

- reducing the consumption through a precise control of the heaters
- reducing the energy subscription thanks to power management;
- contributing to the national peak shaving without having bad influence on the comfort

This service is supported by an intuitive and user friendly interface, to make it easy and attractive to supervise the house's heating even with a remote connection.

Main advantages of this solution:

- This new smart home service is an eco-innovation initiative designed to reduce significantly the energy demand in electricity which will offer definite economic and environmental benefits.
- Another strength is the sociological approach used to define the interface. It has been conceived with a deeply analysis of feedbacks from customers to make it easier and intuitive the use of the service.
- At national levels, this new service would contribute to peak shaving through off-switching the heaters during the energy consumption rush hours.
- Reduction of the energy bill cost for the consumer.

Nowadays most of the technologies used in home automation are world-wide developed and available for all (smartphones, networks, etc.). This means that no obstacle is to be found on the field of technology. The objective of the project will be to work on the users' field, focusing on how they perceive technology in their daily use and preferences.

For these reasons the partners yet engaged in the consortium are looking for partners which



already have a smart home service running for individual owners and for hardware developers for aspects related to security, health and energy.

Whereas the existing consortium skills include skills in technology of heating optimization and sociology, they would like to go one step further to share their methodologies with partners with a deep scientific background from other European countries.

The consortium already includes: the French SME who has developed the solution, a SME expert in optimization of renewable energy self-consumption, a retailer of smart home devices, and a Research & development social sciences team from a large company.

Requested partners are SMEs and sociology researchers from outside France with expertise in user interface. The requested partners will be in charge of analyzing and optimizing the link between smart home technologies and users' needs. The coordinator is requested.

The call:

- H2020 EE-07-2016-2017 "Behavioural change toward energy efficiency through ICT"
- Call deadline: 19th January 2017
- Deadline for the expression of interest : end of June 2016
- Duration of the project : 24 months

## Technical Specification or Expertise Sought

Partners sought:

The existing consortium is looking for partners from all around Europe:

- SMEs
- Sociology researchers from universities and other research organizations

Specific areas of activity of the partner sought:

- Smart home suppliers
- Smart home devices developers
- Energy efficiency specialists
- Data security specialists

Field of expertise/ experience:

- Strong scientific background and/or deep knowledge in the field to co-develop the research project.
- User interface

Task to be performed:

- Analysis and optimization of the link between smart home technologies and need's users

## Stage of Development

Proposal under development

## IPR Status

Patents granted, Copyright

---

## Keywords

### Technology

004008

Energy efficiency

01003022	Smart Appliances
03010	Household Goods & Appliances
04007001	Energy management

## Market

02007009	Home software
06010001	Energy for private/domestic housing
08002001	Energy management

## NACE

M.71.1.2	Engineering activities and related technical consultancy
----------	--

---

**Open for EOI :** **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

Partners sought:

The existing consortium is looking for partners from all around Europe:

- SMEs
- Sociology researchers from universities and other research organizations

Specific areas of activity of the partner sought:

- Smart home suppliers
- Smart home devices developers
- Energy efficiency specialists
- Data security specialists

Field of expertise/ experience:

- Strong scientific background and/or deep knowledge in the field to co-develop the research project.
- User interface

Task to be performed:

- Analysis and optimization of the link between smart home technologies and need's users

### Type and Size of Partner Sought

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

## Type of Partnership Considered

Research cooperation agreement

## Technology Offer

---

# Protein degradation method for cleaning of textiles, surfaces, and equipment

---

## Summary

---

*A Slovenian research institute has developed an efficient method for degradation of proteins, proteins aggregates and deposits by using a thermally stable serine protease. The method is applicable for sterilization of surgical equipment in hospitals, cleaning of textiles, and in molecular biology protocols, and is efficient in a broad range of temperatures, pH values, and in presence of detergents. The researchers seek license or technical cooperation agreements.*

<b>Creation Date</b>	01 April 2016
<b>Expiration Date</b>	08 April 2017
<b>Reference</b>	TOSI20160330003

---

## Details

---

### Description

Hospital equipment and surfaces contaminated with prions represent a constant health risk since prion proteins are notoriously resistant to high temperature and aggressive detergent treatments, making it difficult to sterilize such equipment using standard procedures. Moreover, there is no effective way to clean protein films in water pipes. There is need of a new, efficient, and environmentally friendly way of inactivation, elimination, and/or degradation of prion proteins. Currently used methods for prion degradation include application of extreme conditions.

The core of the invention solves these problems by introducing a simple and efficient protein degradation method using a thermally stable protease pernisine, obtained from the organism *Aeropyrum pernix*. The invention further includes a procedure in which pernisine is produced (expressed) in a common laboratory bacterium *Escherichia coli* (*E. coli*), and the protein gene sequence is specifically modified to allow for higher yields. The recombinant pernisine, purified from the lysed culture supernatant, is effective against soluble proteins as well as protein deposits.

Recombinant pernisines may be used (i) as replacement of proteinase K in molecular biology purification protocols (including kits); (ii) for sterilization of surgical equipment in hospitals; (iii) for cleaning of textiles (as component of washing powders and detergents); (iv) for removing allergenic peptides in food industry, or (v) for cleaning of solid surfaces with protein deposits (water pipes, bioreactor walls, etc.).

Since the technology aims to reach its full potential in cleaning products, industrial partners, such as detergent producers, are sought. Technical cooperation is sought in order to facilitate continuous development rather than just routine production. License agreements and / or agreements for technical cooperation will enable the researchers to maintain their focus on the

research behind the technology whereas up-scaling to industrial level will be carried out in the industrial partner's setting.

The researchers are among the leading scientists in their respective departments, and regularly publish in high-impact scientific journals. They are experts in the field of protein chemistry and biochemistry, extraction, purification, and isolation of proteins from thermophilic microorganisms, and protein stability studies.

## Advantages and Innovations

Pernisine activity has been known for over a decade, yet the procedure for its mass production has remained a challenge, not least due to extreme cultivation conditions required for the thermophilic producer. The present invention includes specifically modified pernisine gene sequences that can be transferred into a common laboratory organism (*E. coli*). Specific substitutions in the pernisine gene maximize pernisine production through optimized codon usage in the new host organism. Any expression vectors, suitable for use in *E. coli*, may be used for gene transfer, and they may reproduce autonomously or in the host's chromosome. The recombinant pernisine may be further modified (e. g. by histidine additions) for the purpose of easier purification and detection, and/or to improve solubility.

The advantages of the technology are as follows: (i) pernisine degrades protein aggregates rapidly compared to other enzymes (in less than 10 min) and is much more effective than the commonly used proteinase K; (ii) high efficiency allows for degradation of higher concentrations of contaminants; (iii) pernisine is thermally stable and efficient in a broad temperature range (50-125°C); (iv) pernisine is robust, it works in a wide pH range (3-10) and in presence of detergents and other denaturants (urea, guanidinium hydrochloride...); (v) pernisine is environmentally friendly compared to aggressive chemical agents; (vi) pernisine may be used in combination with detergents; (vii) expression in *E. coli* eliminates the need for extreme cultivation conditions; (viii) expression in *E. coli* leads to higher yields (and in shorter time) compared to *A. pernix*; and (ix) specific modifications allow for simple purification and detection of pernisine.

## Stage of Development

Under development/lab tested

## IPR Status

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

## Profile Origin

National or Regional R&D programme

---

## Keywords

### Technology

03001001	Cleaning Technology
03004009	Soaps, detergents
06002003	Enzyme Technology
06002004	Protein Engineering
08002002	Food Microbiology / Toxicology / Quality Control

### Market

04007	Enzymology/Protein Engineering/Fermentation
-------	---

04010	Microbiology
05004004	Medical instruments
05004006	Surgical instrumentation and equipment

## NACE

M.72.1.1	Research and experimental development on biotechnology
----------	--

---

**Open for EOI :**    **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

- Type of partner sought: Industry, academy, research organisation,
- Specific area of activity of the partner: distribution of proteins, production of washing powders and cleaning products, sterilization of medical devices (surgical equipment)
- Task to be performed by the partner sought: licensing in the technology for the purpose of application in cleaning formulations and procedures as well as industrial-scale production; entering technical cooperation agreements for the purpose of further development of sterilization procedures and optimisation of enzyme production

### Type of Partnership Considered

License agreement  
Technical cooperation agreement

## Technology Offer

---

# Swedish SME working with a system measuring uptime of machinery and production efficiency is looking for partners for distribution or license agreement

---

## Summary

---

*The SME based in South East Sweden, which has developed a system for measuring uptime of machines and production efficiency within different industries, is looking for cooperation with other partners. The system can either be sold by the future partner on the basis of a licence agreement or in co-operation with the Swedish client with technical assistance. The system is a tool to increase the utilization of machines and a basis for fault monitoring and continuous improvement processes.*

**Creation Date** 01 February 2016  
**Expiration Date** 08 March 2017  
**Reference** TOSE20160201001

---

## Details

---

### Description

The core business of the Swedish company and its system is based on both hardware and software. The first systems have been up and are now running for more than 10 years. They have been proven to work well in the companies where they have been installed. The end customers of the company can either buy or lease the equipment and also buy software licenses.

The developed system is measuring uptime of machines and monitors the machine utilization in real time.

The system can help companies to increase their machine utilization, fault monitoring and provide data for Overall Equipment Effectiveness- OEE.

The main advantage for the end customer is the increase of the production output. According to the Swedish companies' experiences an immediate increase has been seen in close time after the system has been installed.

The system is an important part in the work on continuous improvement.

The Swedish company is now planning to expand and is looking for a long time partnership or cooperation (distribution or license agreement). There are representatives in Denmark, Estonia, Finland and Sweden at present time.

## Advantages and Innovations

The system can help companies to increase their machine utilization, fault monitoring and provide data for Overall Equipment Effectiveness- OEE.

The system gives relevant staff access to data on equipment performance, operating data for the operators, other relevant data for process managers or business management.

The installation of the system is simple and cost efficient as it uses existing LAN, cable or Wi-Fi. The software is also easy to install and easy to handle.

The Swedish company is working with continuous development and has recently developed apps for mobile solutions. Today it is possible to send information from specific machinery to the operators/users via e-mail and mobile apps. This feature gives the operators/users the possibility for information updates in real time.

Applications and licenses for software can be downloaded directly from the website of the Swedish company.

## Stage of Development

Already on the market

## IPR Status

Copyright

## Profile Origin

Private (in-house) research

---

## Keywords

### Technology

02003001	Process automation
02003005	Information processing & Systems, Workflow
03003	Apparatus Engineering

### Market

03004003	Other electronics related equipment
03007002	Other measuring devices
03007003	Other analytical and scientific instrumentation

### NACE

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

---

**Open for EOI :**    **Yes**



---

## Partner Sought

---

### Type and Role of Partner Sought

- Type of partner sought:

A company with a network of contacts to the manufacturing industry who currently sells products or services to those industries. Preferably a company whose products are a complement to our clients product.

- Specific area of activity of the partner:

The partner in mind should have a network of customers within the manufacturing industry or other networks working with LEAN implementations or in any other way connected to a relevant resale organization within that area.

- Task to be performed by the partner sought:

A commercial agreement can be relevant if the system of the Swedish company (with both hardware and software) can be a complement to the partners existing product or service range. If the cooperation will be based on a form license agreement, then the partner in mind should be able to contact potential clients in order to demonstrate and sell or rent the equipment and the system.

Applications and licenses for software can be downloaded directly from the website of the Swedish company.

### Type and Size of Partner Sought

University, SME <10

### Type of Partnership Considered

License agreement

Commercial agreement with technical assistance

## Technology Offer

---

# Swedish company which has developed an innovative nozzle for sealant cartridges offers commercial agreement

---

## Summary

---

*A Swedish company offers a new invention that is patented and design protected in the EU. The product, a nozzle for sealant cartridges, is a DIY component that easily can be used by anyone. It makes it possible to smoothly fill a gap with sealant between two separate surfaces, for example in the kitchen, bathroom, windows etc. The Swedish company is now looking for a partner that is interested in commercializing the nozzle.*

**Creation Date** 16 March 2016  
**Expiration Date** 01 April 2017  
**Reference** TOSE20160315002

---

## Details

---

### Description

This small Swedish company has its roots in the early 80's, it mainly works with product development. The company sells its products mainly on the Swedish market, using external consultants and different suppliers.

The Swedish company has developed a multipurpose nozzle for sealant cartridges which makes it possible, even for amateurs to smoothly fill a gap with sealant between two separate surfaces, for example in the kitchen, bathroom, windows etc. The nozzle makes sure that the result is good-looking while it is very functional since there will be no spillover of sealant. The nozzle is a DIY component that fits on all 300 ml cartridges on the market.

How it works: Mount the original long nozzle on the cartridge and cut of the end, mount the multipurpose nozzle on the top by pressing it over the long nozzle, turn the tool upside down and press out some sealant, press the sealant gun against the gap and check that the "wings" covers the gap, then simultaneous press out sealant and pull the sealant gun backwards. Afterwards the nozzle can be held on its upper part or attached on an ordinary pencil to make the final touch to the joint. The upper part can also be used as a cap to prevent the sealant to dry out when the work is done.

The Swedish company is now looking for a partner that is willing to commercialize the nozzle. A commercial agreement with technical assistance is offered.

### Advantages and Innovations

The design protected shape of the nozzle makes it possible to spread out the sealant, make a perfect joint and levels of the excess sealant in one movement without extra tools and in a clean

way. This is exclusive for this product and does not exist in any other tool intended for sealants in the world. After the use the multipurpose nozzle can be used as a cap to prevent that the sealant will dry out. This innovative nozzle is a perfect complement to original sealant cartridges.

## Stage of Development

Already on the market

## IPR Status

Design Rights, Patents granted

## Profile Origin

Other

---

## Keywords

### Technology

03010 Household Goods & Appliances

### Market

07002005 Other retailing

### NACE

F.43.9.9 Other specialised construction activities n.e.c.

---

**Open for EOI :** **Yes**

---

## Partner Sought

### Type and Role of Partner Sought

The ideal partner is probably a manufacturer and/or supplier of cartridge systems for sealant that sees this innovative nozzle as a complement to its existing products or offer. The partner is expected to commercialize the product via a commercial agreement with technical assistance.

### Type of Partnership Considered

Commercial agreement with technical assistance

## Technology Offer

---

# An innovative thermoelectric refrigerator designed for different means of transport is offered under license agreement.

---

### Summary

---

*A group of Polish scientists has developed a refrigerator that is dedicated for installation in different means of transport. Thanks to applied solution, the device can be powered by both mains power and direct current. As it has low energy consumption it is perfect solution in case of supplying energy from battery. The researchers are looking for a manufacturer of household goods who will design a final product and will launch it on the market under license agreement.*

**Creation Date** 11 March 2016  
**Expiration Date** 15 March 2017  
**Reference** TOPL20160304001

---

### Details

---

#### Description

The research team from Western Pomerania in Poland has developed an innovative thermoelectric refrigerator. The device can be produced in a version for main power supply connection, but also with direct current power supply of 12V. This makes it suitable for installation in different means of transport, such as cars, boats, yachts and railway wagons. The offered refrigerator is based on new wiring diagram and new switching order, which allows for better performance. The refrigerator has a usable capacity of 48 liters and may generate a temperature lower by 16-22 Celsius degrees comparing to the surrounding temperature. The solution has limited power consumption up to 62W at boot-up mode and 16W in a saving mode, which is crucial when it is running on battery.

The scientists are looking for manufacturers of household goods who would be interested in introduction of the refrigerator on the market under a license agreement. The partner and the scientists will work on the development of the final product together.

#### Advantages and Innovations

The offered solution is based on new wiring diagram and new switching order that allows to reduce energy consumption even 3,5 times what is crucial when the device is running on battery. The refrigerator has higher energy efficiency classes comparing to similar products available on the market.

#### Stage of Development

Available for demonstration

#### IPR Status

Patent(s) applied for but not yet granted

## Profile Origin

Private (in-house) research

---

## Keywords

---

### Technology

02008004	Railway Transport
02008005	Road Transport
02008008	Water Transport
03010	Household Goods & Appliances

### Market

07004004	Housewares
09004008	Other manufacturing (not elsewhere classified)

### NACE

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

---

**Open for EOI :**    **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

The scientists are looking for a partner who is acting as a manufacturer of household goods. At the moment there is a working prototype. The partner's task will be to design the housing of the device (including shape, colour, shelves etc.) with specific elements of specific providers inside. The researchers will take part in the process of creation of the final product.

### Type of Partnership Considered

License agreement

## Technology Offer

---

# Industrial waste water treatment and water reuse technology

---

## Summary

---

*A UK SME specialising in industrial wastewater treatment and water reuse has developed a range of compact and cost effective systems which use membrane bioreactor (MBR) technology. This enables treated water to be used as a potable source, providing savings to clients by decreasing their potable water usage, and reducing sewer discharge costs. The company seeks partners for sales support and project delivery via joint venture, license, or commercial agreement with technical assistance.*

**Creation Date** 16 March 2016  
**Expiration Date** 17 March 2017  
**Reference** TOUK20160315001

---

## Details

---

### Description

The UK SME is a pioneering company with a passion for innovation combined with a strong ethos for environmental sustainability. This has led to the development of a highly advanced system for the treatment and reuse of industrial wastewater at customers' facilities. The company's continuous evolution of technology has led to significant reduction in energy requirements for wastewater treatment without detriment to excellent treatment quality and security of operation.

The system is optimised to provide low energy biomass separation, achieved by the combined control of the recirculation and permeate pumps, and backflush system. It can take advantage of deeper bioreactor tanks and use the static hydraulic pressure to assist the ultrafiltration (UF) membrane filtration system. Automatic operation of the air blowers, aeration pumps, low energy configuration system and reverse osmosis (RO) enables plant to operate on demand, and allowing automatic shutdown during periods of lower flow or load. These factors combine to provide lower energy use compared with conventional crossflow or submerged membrane separation systems.

The system is capable of varying the hydraulic throughput, enabling the plant to automatically ramp up during periods of higher flows, whilst optimising energy consumption at the average flow condition. Future hydraulic load can be accommodated by either operating the system at higher energy consumption, or with the simple installation of additional membrane modules into the modular design. If a membrane bank is out of service for maintenance or cleaning then the other bank can ramp up to increase hydraulic throughput.

The company has a process led approach to all aspects of water and wastewater treatment, which ensures the most appropriate technology is identified for each unique application. Solutions are provided via a combination of in house developed processes coupled with the

installation of package equipment and services to provide a fully integrated solution. They are able to deliver a technology solution from concept development to complete installation with the support of onsite operation as required. The passion for sustainable innovation remains core to the company with technology development in the fields of membrane bioreactors and anaerobic digestion of industrial wastewater. Customers benefit from meeting current and future market trends in water reuse, keeping leading companies ahead of their competition in a number of industries.

The technology is proven for industrial wastewater treatment and water recycling in numerous full scale installations in the UK and USA including dairy, food processing, cereal, malting, distillery, brewery and contaminated ground water applications.

The company is looking for partners who can provide sales support and project delivery, and it is anticipated that this will be via joint venture, license, or commercial agreement with technical assistance. Suitable partners would include project delivery companies operating in the industrial wastewater market that require support in the areas of membrane bioreactors and water recycling technologies to provide solutions for their clients. Prospective partners should be able to identify potential projects and support sales activities within their region in the areas of industrial wastewater treatment and re-use. Ideally partners will have experience in project delivery of wastewater treatment plants.

## Advantages and Innovations

The design and operation of the aeration system and bioreactor provides excellent chemical oxygen demand (COD) reduction. Use of UF membranes provides a complete barrier to suspended solids thus ensuring high quality final effluent is guaranteed for watercourse discharge and providing an ideal water quality for downstream RO treatment. The high biomass concentration and hydraulic buffering within the bioreactor enable the system to cope with varying influent. The selected operating parameters enable a low sludge production, reducing offsite tankering.

High flux performance combined with optimised installed membrane area and long membrane life means that whole life costs for operation and membrane replacement are lower than alternative systems. The membranes are also modular and clients are not reliant on a single membrane supplier.

Out-of-tank and low level installation of aeration equipment, UF membrane system and instrumentation in conjunction with good design practice provides easy access for plant maintenance and cleaning. The standard UF mechanical design incorporates lifting points for easy removal of UF membranes.

High biomass concentrations permitted by cross-flow systems enables a smaller bioreactor compared with other activated sludge systems, and coupled with the compact design provides a reduced footprint for the plant compared with alternative systems.

The RO plant is fully integrated and is designed on the same principals as the low energy configuration system. The system is controlled to allow automated start, shutdown, flushing, permeate divert, and cleaning via the permanent clean-in-place (CIP) system. The system automatically controls pump speed and regulates reject pressure to enable control of the permeate flow. Systems are sized appropriately to satisfy client requirements, and can be installed in duty / assist or duty / standby arrangements.

## Stage of Development

Already on the market

## IPR Status

Secret Know-how, Design Rights, Exclusive Rights, Copyright

## Profile Origin

Private (in-house) research

---

## Keywords

### Technology

02004	Plant Design and Maintenance
03002	Process Plant Engineering
10004001	Industrial Water Treatment
10004002	Municipal Water Treatment
10004003	Wastewater Recycling

### Market

07003001	Wine and liquors
07003003	Soft drinks and bottling plants
08001008	Membranes and membrane-based products
08004003	Water treatment equipment and waste disposal systems
08004004	Other pollution and recycling related

### NACE

C.11.0.1	Distilling, rectifying and blending of spirits
C.11.0.5	Manufacture of beer
C.11.0.7	Manufacture of soft drinks; production of mineral waters and other bottled waters
E.36.0.0	Water collection, treatment and supply
E.39.0.0	Remediation activities and other waste management services

---

**Open for EOI :**    **Yes**

---

## Partner Sought

### Type and Role of Partner Sought

- Type of partner sought: Industry.
- Specific area of activity of the partner: Project delivery companies operating in the industrial



wastewater market that require support in the areas of membrane bioreactors and water recycling technologies to provide solutions for their clients. Also clients who have a specific requirement for the technology.

- Task to be performed by the partner sought: Partners should be able to identify potential projects and to support sales activities within their geographic region in the areas of industrial wastewater treatment and re-use. Ideally partners will have experience in the delivery of wastewater treatment plant projects.

## **Type and Size of Partner Sought**

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

## **Type of Partnership Considered**

License agreement  
Commercial agreement with technical assistance  
Joint venture agreement

## Technology Offer

---

# Modelling and simulation of thermolysis (pyrolysis) processes

---

## Summary

---

*Lithuanian SME offers its services for computer modeling and simulation (using Monte Carlo methods) of thermolysis (pyrolysis) processes. SME is working in the following fields: -mathematical and computer modeling and simulation of the physical and technological processes; -preparation of techno-economical business (plants) models and detailed business plans based on simulations' scenarios. SME is looking for industrial, R&D partners for commercial, financial or research cooperation agreemen*

**Creation Date** 26 February 2016  
**Expiration Date** 24 March 2017  
**Reference** TOLT20160226001

---

## Details

---

### Description

Lithuanian small scientific research firm is working in the following fields:

1) mathematical and computer modeling and simulation of physical and technological processes;

2) creation of mathematical and computer business (industry, construction, services, social) models, simulation of various scenarios, and preparation of detailed business plans based on modeling & simulation results.

Technological offer is devoted for the modeling and simulation of the thermolysis (pyrolysis – wide used term) processes.

The main idea for the study of thermolysis processes is to switch from phenomenological kinetics to statistics of direct molecule-molecule processes. There have to be the dynamic picture of evolution of various molecules in time, space and their (molecules) internal structure change.

For the achievement of those purposes there have to be constructed the models of atom-molecule and molecule-molecule elastic and inelastic (non-elastic) collisions of wide spectrum of hydrocarbons.

The destruction, excitation and deformation of those molecules are results of their collisions.

The ensembles of large amount of test molecules have to be taken for the simulations of their dynamical evolution.

The Monte Carlo methods (methods of stochastic simulations) will be used for the numerical simulations of all those processes.

Each process and object will be modeled by use of different approaches as follows:

- 1) original phenomenological models;
- 2) models based on interpolation and approximation of experimental data;
- 3) models based on different theoretical approaches;
- 4) numerical models;

5) hybrid models.

For the further simulations of evolution of molecules' ensembles, those mathematical models have to have the simple mathematical forms, or in other cases they have to be interpolated via simple numerical expressions (for example - Pade approximation, etc.).

There will be created the sets of working models with different complexity and accuracy for each physical process and object.

The "Final model" (an integrated model involving all processes and evolution of molecules' ensembles) is dynamic, i.e. there is the permanent development phase (of project) giving the pictures of processes with different accuracy, but giving intermediate results in early phases of researches.

During the TO realization time there will be created a set of "Final models" with different levels of complexity. That R&D strategy enables to shorten the products' creation time.

Those models have to enable to simulate the atom-molecule & molecule-molecule inelastic collisions in wide spectrum of their (atoms and molecules) kinetic energy, i.e. to simulate the processes taken place in wide region of temperatures. So it will be able to simulate the thermolysis (pyrolysis) and gasification processes being the targets of our researches for real applications.

There will be used high-level powerful programming languages – C++ (or FORTRAN).

During this work the fully original special computer software (computer models of molecules collisions; computer models of molecules collisions' generation; molecules' ensembles evolution in time, space and internal structure) will be created.

Using results of various scenarios of simulations the phenomenological kinetic coefficients of thermolysis processes at different conditions (temperature, pressure, type of utilization materials, etc.) will be calculated.

The simulation results (including all intermediate results for each process) will be compared with experimental and theoretical data being published in various journals, monographs and gotten via private communications.

Company is looking for partners being interested in above mentioned results/products.

The searched partners would be active in engineering, industry, business or researches.

## Advantages and Innovations

Current technological offer (TO) is oriented to the following (in the field of thermolysis):

1. Scientific knowledge:

- 1) creation of new original models of physical-chemical processes taken place in thermolysis;
- 2) test of existing models;
- 3) more deep understanding of thermolysis processes via use of various quantum theoretical approaches in modeling and simulation;
- 4) calculation of kinetic coefficients of traditional reactions kinetic equations via use of results of numerical modeling and simulations.

2. Practical applications:

- 1) simulation of processing of real thermolysis reactors at real conditions (geometry, variety of raw materials being utilized, etc.);
- 2) help for real design of thermolysis reactors via simulation of problematic areas by use of created software (being created in the frame of current project);
- 3) creation of empirical numerical models (based on project's simulations) for the fast estimation of various technological situations in practice.

Cooperation/collaboration with engineering and industrial / manufacturing companies has to form the problems being top for them and having to be solved in the frame of TO (via direct modeling and simulation of problematic situations taken place in design and practice).

## Stage of Development

Proposal under development

## IPR Status

Other

## Profile Origin

Other

---

## Keywords

---

### Technology

03002	Process Plant Engineering
03004010	Special chemicals, intermediates
05001002	Computational Chemistry and Modelling
05004006	Other Processes
10003002	Incineration and Pyrolysis

### Market

06001004	Equipment and instrumentation
06001006	Chemicals and materials
06003009	Biomass and Biofuels
06007001	Other energy production
08004002	Chemical and solid material recycling

### NACE

C.20.5.9	Manufacture of other chemical products n.e.c.
E.38.2.1	Treatment and disposal of non-hazardous waste
E.38.2.2	Treatment and disposal of hazardous waste
J.62.0.1	Computer programming activities
M.72.1.9	Other research and experimental development on natural sciences and engineering

---

**Open for EOI :**    **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

Type of partner sought:

- researcher, designer, industrialist - business partners (engineering companies, equipment manufacturers, environmental active firms (biomass, MSW, scrap tyres, sewage sludge and

other wastes utilization), alternative fuels and chemical intermediate goods production) to cooperate in developing specific software, to test and evaluate it.

Task to be performed by the partner sought:

- to test and evaluate software with a view to considering commercial agreement with technical assistance, financial or research cooperation agreements.

## **Type and Size of Partner Sought**

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

## **Type of Partnership Considered**

Financial agreement

Commercial agreement with technical assistance

Research cooperation agreement

## Technology Offer

---

# Innovative optical elements for lighting and building design products

---

## Summary

---

*A French SME specialized in interior design products has developed high standing optical elements (slab) which can be used for several kinds of uses according to needs & researched visual effects. Design building products, furniture and luminaries manufacturers are sought for technical cooperation to adapt this technology to their products. Commercial agreements with technical assistance could be of interest too.*

**Creation Date** 01 March 2016  
**Expiration Date** 11 March 2017  
**Reference** TOFR20160301003

---

## Details

---

### Description

A French SME offers innovative means for high standing communication, design & decoration. The technology proposed is based on customized optical transparent slabs which can be applied and used in diverse ways; enabling games of light & images, bringing brightness to spaces without the use of external energy.

This is composed of an optical glass module system which incorporates 16 lenses and a frosted glass screen.

Images and lightings can be displayed in different manners:

- Casting of the images in real features (horizontal projection) on floors or walls, whatever the distance from the light source, or from the reflector and bulb. The technology suits ideally for luminaries and glasses-like displays.
- Simple replication of pictures; transmitting real pictures, multiplying images/light sources in 16 smaller scattered elements over the 16 lenses (tufting option thanks to sandy surface). Solution relevant e.g. for interior architecture elements with a potential communicative added value (doors, walling, marketing display...).

Two international patents cover that innovative transparent slab. Its primary use is to transmit light and exterior images to inner spaces, but it could be used outside too. On the whole outer surface of the optical lenses; components capture light and movements, projecting them through the slab in the form of animated images (potentially multiplying & enhancing images according to the expected games of light).

The slab is based on an optical geometric technology, capable to be customized and integrated

in different environments according to the specific requirements. The slab can be cut and adapted to various shapes, especially to be placed in front of different kinds of LED lighting devices.

The French company is looking for partners open to innovations : high standing manufacturers of luminaries & furniture; design, building products suppliers; architects (interior and exterior architecture); organizations dealing with agencies for communication, design creation or artistic display.

Technical cooperation agreements for adaptation of the technology to the products of partners are proposed, but commercial agreements with technical assistance could be of interest too.

## Advantages and Innovations

- The slab allows to modify the spectral distribution of light without use of complex and expensive solutions like polarising filters or nematic-phase liquid crystals controlled by an electric field, and to create specific lighting fractal effects. Innovative games of lights so produced enable to attract people's attention, to enhance a product or a logo for example.
- The slab can be used in spaces open to the exterior sources of light, allowing bringing brightness and optical vision without using external energy. Enhance therefore a light source, while enabling energy saving.
- The slab can be adapted to various kinds and shapes of products ; it is fireproof resistant to mechanical shocks and stones impacts.

## Stage of Development

Already on the market

## IPR Status

Patent(s) applied for but not yet granted

## Profile Origin

Private (in-house) research

---

## Keywords

### Technology

02006001	Materials, components and systems for construction
03010	Household Goods & Appliances

### Market

09007002	Manufacture of construction materials, components and systems
09007004	Engineering and consulting services related to construction

### NACE

M.74.1.0	Specialised design activities
----------	-------------------------------

Open for EOI : **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

Type of partner sought : high standing manufacturers of luminaries & furniture / design building products suppliers / architects

Task to be performed: technical cooperation to use and/or adapt the French technology to further the development of the partner's products.

Commercial agreement with technical assistance could be of interest too, the French company supporting the partner with the transfer of the technology.

### Type and Size of Partner Sought

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

### Type of Partnership Considered

Commercial agreement with technical assistance

Technical cooperation agreement



## Technology Request

---

### **Request for optical technology of wide FOV(field of view) for VR(virtual reality) HMD(head mounted display) such as smart glasses etc.**

---

#### **Summary**

---

*A Korean company which specialized in developing and manufacturing high-tech parts is looking for a technology of wide FOV, over 140 degrees, for VR(virtual reality) HMD(head mounted display). The existing wide FOV up to now is limited by 100 degrees. Wide FOV technology would be applied in human-machine interface field, smart glasses etc. The company is interested in cooperating with a partner for joint venture, manufacturing, research cooperation or technical cooperation.*

**Creation Date**            07 April 2016  
**Expiration Date**        11 April 2017  
**Reference**                TRKR20160407001

---

#### **Details**

---

##### **Description**

A Korean company specialized in developing and manufacturing high-tech parts, has an idea to develop wide FOV (field of view), over 140 degrees, using lenses, prisms, or other optical components including DOEs(diffractive optical elements) HOEs(holographic optical elements) or etc.

VR is an artificial environment which could be applied in various fields. But in order to increase the sense of reality and immersion, FOV should be over 140 degrees. However, by using conventional optics, the FOV could reach only to 100 degrees.

To overcome these technical limits, it is necessary to approach a new optical technology such as wave optics etc.

They're looking for a partner who provides an advanced technology mentioned above and does research and development together to create a completed wide FOV.

They prefer a company or a research institute which has references in manufacturing VR HMD goods that FOV technology is applied. No preference for countries.

##### **Technical Specification or Expertise Sought**

Must have : 1. FOV : > 140 degrees

Nice to have : 1. compact size, 2. eye tracking, 3. around view camera

Favorable : 1. MLA(Micro Lens Arrays) on panel pixel, 2. curved display, 3. advanced eye piece optics

---

## Keywords

---

### Technology

01001002	Digital Systems, Digital Representation
03003	Apparatus Engineering
03007	Sound Engineering/Technology
03010	Household Goods & Appliances

### Market

07001001	Movies, movie products and theatre operations
07001004	Sporting goods, hobby equipment and athletics clothes
07001006	Music, records, production and instruments
07001007	Other leisure and recreational products and services
07004008	Other consumer products

### NACE

C.26.2.0	Manufacture of computers and peripheral equipment
C.26.4.0	Manufacture of consumer electronics
C.27.2.0	Manufacture of batteries and accumulators
C.27.3.3	Manufacture of wiring devices
C.27.5.1	Manufacture of electric domestic appliances

---

**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: optics technology  
Task to be performed: joint development, R&D outsourcing, component sourcing

### Type of Partnership Considered

Manufacturing agreement  
Technical cooperation agreement  
Joint venture agreement  
Research cooperation agreement

## Technology Request

# Request for active camera lens cleaning system for cameras mounted on automobiles.

## Summary

*A Korean company, specialized in developing and manufacturing high-tech parts, is looking for an active camera lens cleaning system for automobile exterior cameras. The conventional way which uses water for cleaning is not appropriate for exterior cameras, so they want to find new ways to clean the camera lens. They are looking for a partner available for research cooperation agreement or technical cooperation agreement.*

**Creation Date** 08 April 2016  
**Expiration Date** 11 April 2017  
**Reference** TRKR20160408001

## Details

### Description

A Korean company, a manufacturer of high-tech parts, has an idea to develop cleaning system for automotive exterior camera.

Recently, camera technology is applied in the car industry more quickly than before. Many camera technologies are already applied to the backward and forward of the vehicles for user's convenience.

To replace side view mirrors with exterior cameras, it is essential to keep the camera clean. The conventional way which uses water is too costly and cannot clean the camera perfectly. The new cleaning system can be applied near camera as a module. So, combination of camera and compact sized cleaning kit is requested. And it would be good to have auto cleaning system and pollution recognition algorithm. Pollution prevention coating (antistatic) or air compressor and washer nozzle would be welcomed.

The company is looking for a partner who provides an advanced technology mentioned above and does research and development together to create a completed module with cleaning system.

They prefer a company or a research institute which has references in cleaning system for electronic devices such as cameras or micro parts. No preference for countries.

### Technical Specification or Expertise Sought

Must have

1. Combination of camera and cleaning kit
2. Compact size of cleaning kit

Nice to have

1. Auto cleaning system

2. Pollution recognition algorithm  
Favorable
1. Pollution prevention coating (antistatic)
2. Air compressor and washer nozzle

## Keywords

### Technology

02002001	Cleaning (sandblasting, brushing)
03001001	Cleaning Technology
03003	Apparatus Engineering
10001002	Assessment of Environmental Risk and Impact
11005	Infrastructures for social sciences and humanities

### Market

07004008	Other consumer products
08002002	Industrial measurement and sensing equipment
08003001	Machine tools, other metal working equipment (excl. numeric control)
08003007	Other industrial equipment and machinery
09001003	Leasing of railcars, buses, cars, etc.

### NACE

C.26.2.0	Manufacture of computers and peripheral equipment
C.26.3.0	Manufacture of communication equipment
C.26.4.0	Manufacture of consumer electronics
C.26.6.0	Manufacture of irradiation, electromedical and electrotherapeutic equipment
C.26.7.0	Manufacture of optical instruments and photographic equipment

**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: optics technology etc.

Task to be performed: research cooperation or technical cooperation on active camera lens cleaning system for automobile.

## **Type of Partnership Considered**

Technical cooperation agreement  
Research cooperation agreement

## Technology Request

---

**A Romanian company is looking for an acquisition line, for chlorine tablets production, in the disinfection domain.**

---

### Summary

---

*Romanian company, located in north-eastern Romania, is looking for an acquisition line for chlorine tablets production, and is interested to provide such protection to specified areas. The Romanian company is looking for a commercial agreement with technical assistance for this line.*

**Creation Date** 04 April 2016  
**Expiration Date** 11 April 2017  
**Reference** TRRO20160404001

---

### Details

---

#### Description

Chlorine tablets have various uses, from disinfecting water in swimming pools and disinfecting toilets, surfaces such as floors, walls, worktops, dishes, laundry bleaching and many more. Romanian company, located in northeastern Romania, operates already on the Romanian market and is interested to provide such protection to specified areas. Such a line to manufacture chlorine tablets, must contain a powder mix and tablet press machine, a counting machine in plastic bottles with bottle sealing foil thermal and labeling machine. Romanian company is interested in purchase such lines from the countries with traditions in the field. Seeking partner is a producer of such lines, or re-seller to possess the desired product distribution. The partner must be able to provide technical assistance for commissioning production line to fulfil the beneficiary rated parameters.

#### Technical Specification or Expertise Sought

The line should have a capacity between 5000-10000 tablets / hour, and plastic bottles to be in diameter 90 mm, height 240 mm. The tablet size: diameter 20 mm and thickness between 5 and 8 mm

#### Stage of Development

Already on the market

---

### Keywords

---

#### Technology

02002001	Cleaning (sandblasting, brushing)
03002	Process Plant Engineering
10004002	Municipal Water Treatment
10004008	Water Resources Management

## Market

05003001	Therapeutic services
07005003	Hotels and resorts
07006	Other Consumer Related (not elsewhere classified)
08003007	Other industrial equipment and machinery

## NACE

C.21.1.0	Manufacture of basic pharmaceutical products
Q.86.1.0	Hospital activities
Q.88.9.9	Other social work activities without accommodation n.e.c.
R.93.1.9	Other sports activities

---

**Open for EOI :**    **Yes**

---



---

## Partner Sought

---

### Type and Role of Partner Sought

Sought partner must be able to provide a commercial agreement contract for this type of line. Partner's technical expertise will consist in its technical assistance so that his line would fall in the nominal parameters, in order to put the line into operation.

### Type and Size of Partner Sought

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

### Type of Partnership Considered

Commercial agreement with technical assistance

# Textil y Calzado



## Technology Offer

### Anti Mosquito Fabric. New Start Up.

#### Summary

*An Italian spin-off has patented an innovative fabric useful to avoid bites from mosquitoes. The main advantage is a durable protection without using any chemicals. The offer is mainly addressed to textile companies to sign a financial agreement (into a new venture) to make and sell the fabric through the contribution of the patent by the holder. Licensing of the patent by the interested company will be considered too.*

<b>Creation Date</b>	25 January 2016
<b>Expiration Date</b>	21 March 2017
<b>Reference</b>	TOIT20160125001

#### Details

##### Description

The fabric is tested and sampled by the Italian small company founded by the inventor, with a sound expertise on engineering applications, and based in the north of Italy.

The fabric is deemed interesting in the market.

The new fabric is protected by Italian patent with international extension. As mentioned above, the fabric protects against insect bites and mosquitoes without using any chemical treatment and consists of:

- a) an inner layer made of a liner, natural material (cotton of different nature and thickness depending on apparel, summer or winter).
- b) a cavity, which, with its particular reticular structure, prevents the sting of the mosquitoes from reaching the skin, in addition to allowing the formation of a layer of air (over 80%), which as known is an excellent insulator.
- c) an outer layer made of a fabric that can vary in weight and color with the seasons and uses factor (fashion)

This innovative fabric points to potentially very profitable niche markets such as clothing for sportsmen, tourists and nature lovers. For example, in recent years there have been in the market

##### Advantages and Innovations

The fabric solves the problem of preventing from mosquito bites and insects (insects sometimes carry diseases or allergies), primarily affecting users of sportswear or non-sportswear clothing when attending wetlands or hot humid conditions, without using chemicals and retaining its characteristics over time.

Moreover, this new 3-layer fabric that provides lightness to the piece of clothing and comfort ventilation in the body, in a natural way, without chemical treatments.

This innovative fabric can be used by clothing manufacturers to address different niche markets: using this new technology, specific clothes (shirts, trousers, jackets, polo shirts, suits, caps) can be made for different sports and users. The potential sales of fabric is closely related to the

potential of the expected sales by clothing manufacturers and so the orders that the garment makers make to wool mills.

## Stage of Development

Prototype available for demonstration

## IPR Status

Patents granted

## Profile Origin

Private (in-house) research

---

## Keywords

---

### Technology

03005007      Textile fibres

### Market

07001007      Other leisure and recreational products and services  
07002002      Clothing and shoe stores  
09004003      Textiles (synthetic and natural)

### NACE

C.13.2.0      Weaving of textiles  
C.14.1.3      Manufacture of other outerwear  
C.14.1.9      Manufacture of other wearing apparel and accessories  
C.32.3.0      Manufacture of sports goods

---

**Open for EOI :**    **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

The ideal partner should be a small/medium textile company producing fabric addressing specific uses: sportsmen clothing, apparel for tourists and nature lovers. The partner should produce and commercialize the innovative fabric through a suitable financial agreement with the promoter, i.e. an equity investment to push forward a new company in Italy or abroad, a license agreement or the acquisition of the patent in its entirety.

## Type of Partnership Considered

License agreement  
Financial agreement

## Technology Offer

---

# Engineering expertise for flax-based product development

---

## Summary

---

*A French engineering office, based in northern France, proposes its expertise in flax-based material and product development. Several sectors could be concerned such as transport, construction industry, health, sports goods, to bring innovation with natural fibers in their products. It is looking for companies interested in integrating flax especially or other natural fibers in their new products and wants to collaborate under technical services or technical cooperation agreements.*

**Creation Date** 15 February 2016  
**Expiration Date** 08 March 2017  
**Reference** TOFR20160215001

---

## Details

---

### Description

The French engineering office, based in northern France, is used to propose to its partners R&D work and innovation to develop flax-based material and products. The company is working with flax and flax by-products to bring innovative and ecologic solutions for new product developments. The flax fiber has interesting properties to bring new specificities to a product, for example vibration absorption, thermal and acoustic insulation, and has a low impact on the environment.

The French SME proposes to collaborate with the partner by:

- Making the state-of-the-art of existing solution
- Defining or refining the specifications
- Making the material selection and identify the appropriate suppliers
- Proposing the appropriate manufacturer according to the product and follow the prototyping phases
- Realizing tests and characterization in laboratory and according to defined standards

One major advantage of the French company is its strong and developed network of partners in the flax fiber production chain, from the growers, the flax scutching companies, to the semi-finished products manufacturers. It is completely integrated in this ecosystem. The company is also in close relationship with universities and engineering centers so as to offer material testing.

Several sectors could be concerned such as materials (new compound), transport (weight reduction projects, vibration absorption and thermal insulation), construction industry (thermal and acoustic insulation, interior wall covering, and interior decoration products), leisure goods (vibration absorption, eco-design...), health (for the antibacterial properties) and other sectors.

The partner sought is willing to bring innovation with natural fiber in its new product development. The French company proposes to collaborate under technical services or even technical cooperation agreements on R&D project where technical and scientific expertise on flax fibers is needed

## Advantages and Innovations

One major advantage of the French company is its strong and developed network of partners in the flax fiber production chain, from the growers, the flax scotching companies, to the semi-finished products manufacturers. It is completely integrated in this ecosystem.

Technical advantages of using flax :

- Low density (almost twice lower than glass fiber)
- High specific stiffness
- Vibration absorption
- Thermal insulation
- Acoustic insulation

## Stage of Development

Already on the market

## IPR Status

Secret Know-how

## Profile Origin

Private (in-house) research

---

## Keywords

---

### Technology

02007018	Advanced Textile Materials
02007020	Biobased materials
03005005	Non weaving related to Textiles Technology
03005007	Textile fibres

### Market

09003001	Engineering services
09004003	Textiles (synthetic and natural)

### NACE

M.71.1.2	Engineering activities and related technical consultancy
----------	--

---

**Open for EOI :**    **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

The French company is looking for partners willing to bring innovation with natural fiber in its new product development. The French company proposes to collaborate under technical services or even technical cooperation agreements on R&D project where technical and scientific expertise on flax fibers is needed. The best partnership suitable for both parties can be determined throughout further exchanges.

Sector of partner sought: compound material development, transport, construction industry, leisure goods, sport goods, health. Other sectors interested in flax are of interest too.

### Type and Size of Partner Sought

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

### Type of Partnership Considered

Services agreement  
Technical cooperation agreement

# Medidas y Normas

## Research & Development Request

# EUROSTARS-2 search for partner in the project application - an end user SME

### Summary

*An SME from Latvia operating in the surface metrology field has developed a new generation ultra-high performance non-contact surface metrology instrument with capabilities well beyond of existing technologies. The company seeks an SME from France, Germany, Sweden or UK operating with micro/nano scale objects and facing surface measurement problems. The SME will be partner in Eurostars-2 program application - a tester/adapter/end-user of the technology.*

**Creation Date** 08 March 2016  
**Expiration Date** 14 March 2017  
**Reference** RDLV20160308001

### Details

#### Description

The rapid development and miniaturization of consumer electronics demands new measurement challenges rising each year that existing metrology solutions cannot address. For example, the slightest deviation from the intended size of a smartphone's internal components can lead to thousands of smartphones being impossible to assemble.

The company is a surface metrology R&D company operating outside of Riga, capital Latvia. It has developed a new generation of ultra-high performance, non-contact surface metrology instrument based on a unique technology of white light optical interferometry. The company is going to develop a project proposal for Eurostars-2 programme.

An SME partner is sought for the project consortium. This SME will be an end-user of the technology, e.g. integrating it into their production line to address prevailing metrology needs, thus validating the technology.

Deadline of the call is September 15, 2016.

Deadline for expression of interest is July 15, 2016.

The expected duration of the project is two years.

#### Advantages and Innovations

The profilometer offers a number of unique capabilities in comparison with the existing ones:

- A very high operating speed and large field of view, allowing the entire sample to be imaged quickly.
- A large step-height (vertical component view), for detailed analysis of discontinuous surfaces.
- The ability to make measurements from a distance up to 1 m, meaning that large surfaces can be measured with the instrument being moved, rather than very heavy objects having to be moved.
- An integrated anti-vibration algorithm that removes the need of additional, highly-expensive equipment to ensure measurement stability.



## Technical Specification or Expertise Sought

The company seeks industrial applications of the technology. The partner SME should be able to identify requirements and technical specifications, so that the profilometer can be adjusted and integrated into its manufacturing process.

## Stage of Development

Field tested/evaluated

## IPR Status

Secret Know-how, Patent(s) applied for but not yet granted

---

## Keywords

### Technology

03003	Apparatus Engineering
05003002	Optics
05005	Micro- and Nanotechnology
09001007	Optical Technology related to measurements
09001008	Other Non Destructive Testing

### Market

03007002	Other measuring devices
03007003	Other analytical and scientific instrumentation
08002002	Industrial measurement and sensing equipment
08006001	Process control and logistics
09003001	Engineering services

### NACE

M.71.2.0	Technical testing and analysis
M.72.1.9	Other research and experimental development on natural sciences and engineering

---

**Open for EOI :**    **Yes**

---

## Partner Sought

## **Type and Role of Partner Sought**

Type of partner sought: an SME facing a metrology challenge, operating in the field of development of metrology solutions or a provider of metrology services. The company should meet SME (<250 employees, <50 million EUR turnover and <43 million Balance sheet size) and other Eurostars-2 call criteria.

Tasks to be performed by the partner sought: To define technical requirements for solving the existing metrology challenges, to help specify how the profilometer has to be adjusted for integration into the production or service line and implement the technology.

## **Type and Size of Partner Sought**

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

## **Type of Partnership Considered**

Research cooperation agreement

## Technology Offer

---

# Partner sought for technical cooperation according an inspection device to capture long-distance heat duct (LDHD) and therein installed pipeline systems

---

## Summary

---

*A German engineering company, active in the field of application-oriented development and construction performances, has developed an innovative solution for status detection of not accessible LDHD, optically. The special inspection device will allow detecting the constructional and external piping status by moving on available pipes and insulation. The German engineering company is looking for technical cooperation with partners from Eastern Europe.*

**Creation Date** 31 March 2016  
**Expiration Date** 11 April 2017  
**Reference** TODE20160201001

---

## Details

---

### Description

The German company, active in the field of application-oriented development as well as construction performances, has developed an innovative solution for visual status detection of not accessible LDHD.

During the inspection the device will move on available pipes and insulation. An installed rotatable camera allows to explore the area around fixed and plain bearings. It is constructed with an extremely flat design. With this special feature already 10 cm (minimum distance) between top pipe insulation and lower edge of the canal are enough.

The device can be adapted to different pipe diameters and duct cross-sections. The technology enables to get information about the current status in areas that are difficult to access (depth: 65 cm, length: 100 m), which is a further major advantage in comparison with their competitors.

Visual status detection and documentation of structural condition of LDHD:

- Investigation of joints (density),
- Walls and ceilings (spalling, etc.),
- Bottom (deposit, humidity, etc.)

Visual status detection and documentation of installed pipeline systems:

- Pipe insulation (moisture penetration, deformation),
- Plain and fixed bearing (corrosion),
- Minutes of inspection and/or DVD

Various experiences in using the device, e.g. with municipal utilities already exist.

A partnership with Eastern European companies (municipal utilities, service provider, partners with know-how of regional circumstances) is sought. Potential partners should be interested in technical cooperation for further development of the solution.

## Advantages and Innovations

The developed inspection device offers the possibility to capture the state of repair of LDHD and its pipe system, optically.

It further is constructed to move on the available pipes and insulation.

The extremely flat design of the device allows that just 10 cm minimum distance between top pipe insulation and lower edge of the canal are needed. With the rotatable camera the surrounding area can be easily recorded. Both, the flat design and the possibility to get access in difficult areas are a big advantages compared to competitors.

Additionally, the device can be adapted to different pipe diameters and duct cross-sections.

## Stage of Development

Already on the market

## IPR Status

Secret Know-how, Copyright

## Profile Origin

Private (in-house) research

## Keywords

### Technology

04001002	Heat transport and supply, district heating
09001006	Optical material testing
09001007	Optical Technology related to measurements
09004	Recording Devices

### Market

03007002	Other measuring devices
06003007	District heating
07005006	Other consumer services (including photo processing)

### NACE

C.28.9.9	Manufacture of other special-purpose machinery n.e.c.
M.71.1.2	Engineering activities and related technical consultancy
M.71.2.0	Technical testing and analysis
M.72.1.9	Other research and experimental development on natural sciences and engineering

Open for EOI : **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

The company seeks for a long-term partnership with Eastern European companies (municipal utilities, service provider, partners with know-how of regional circumstances), who are interested in further development of the developed device in terms of technical cooperation.

### Type and Size of Partner Sought

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

### Type of Partnership Considered

Technical cooperation agreement

## Technology Offer

# Universal testing machine with electromechanical drive (nominal load 2500 kN)

## Summary

*The German engineering company has designed the highest quality testing technology for standardised and individual customer requirements. Their solution, a series of universal testing machines, can be converted into absolute specialists with a low amount of effort. They fulfil highest requirements in measuring precision and versatility. The company is looking for technical cooperation as well as commercial agreements with technical assistance.*

**Creation Date** 29 February 2016  
**Expiration Date** 10 March 2017  
**Reference** TODE20160216001

## Details

### Description

The German company is specialised in the fields of electromechanical machines, measurement technologies, fully automatic systems and software for testing of components, materials and other.

It's engineers have developed a series of universal testing machines that can be converted into absolute specialists with a low amount of effort. They can test food, packaging, furniture, machines and bearing surfaces as well as all kinds of standard specimens of a large variety of materials, be it under temperature, pressure or media influence.

Furthermore, they fulfil highest requirements in measuring precision and versatility. They are ideal for the most demanding measurements in industry and research. With load frame versions that go well into the high-load area, these machines are suitable of testing even high-strength materials and large components.

Additional guide pillars make the machine's construction extremely solid. It has a purely electromechanical drive-from incrementally adjustable alternating current precision motors up to power transmissions through a high precision ball-roller transmission with a spindle nut adjusted without play- all this ensures a highly dynamic power transmission. It guarantees absolutely reproducible test results even with the smallest traverse rates and forces.

The machines are offered with freely selectable traverse path and adjustable power and strain regulations to ensure continuous fulfilment of the metal tensile test standard DIN EN ISO 6892-1. The force is measured through a wire strain gauge force transducer. It is highly precise and also conforms to the requirements of either DIN EN ISO 7500, class 0,5 or 1. It is further equipped with a control system that has been specially designed to ensure the synchronous recording of the results of all measuring channels with a highest resolution and measuring

frequencies of up to 5 kHz.

There is further a company owned operating software offered that ensures simple testing operation and documentation of the measured values. All load frames can be supplied with variable configurations enabling special specimens and components to be tested under the influence of of different temperatures and media. This relates to the height and as an optional feature to the width and depth.

The universal testing machines are supplied with a keyboard for an optional manual operation. Normal conditions in a laboratory do not always reflect the use of materials and components in reality. The universal testing machine can simulate this in a confined space. The German company provides environmental simulators that have been specially adapted to individual series of universal testing machines.

Non-standard specimens and complex components can either not be tested at all with conventional clamping implements or only with great difficulty. The company owns the know-how and can provide the equipment that is needed as well as develop solutions specifically suited for individual test requirements.

The company is looking for partners, who are interested to conclude commercial agreements with technical assistance to integrate or modernise testing systems. For further development they are seeking for technical cooperation as well.

## Advantages and Innovations

The universal testing machine can:

- be converted into absolute specialists with a low effort
- test food, packaging, furniture, machines and bearing surfaces as well as all kinds of standard specimens of a large variety of materials
- test under temperature, pressure or media influence
- load frames can be supplied with variable configurations
- useable for most demanding measurements in industry and research

The universal testing machine is equipped with:

- a special designed control system to ensure synchronous recording
- company owned operating software to ensure simple testing operation and documentation

Further advantages:

- machine's construction is extremely solid
- purely electromechanical drive
- highly dynamic power transmission
- it guarantees absolutely reproducible test results
- continuous fulfilment of metal tensile test standard DIN EN ISO 6892-1
- highly precise and conform to the requirements of DIN EN ISO 7500, class 0,5 or 1
- simulators of real environment can be adapted to the universal testing machine -> possibility to simulate real environment by using environmental simulators that have been specially adapted to individual series of universal testing machines
- possibility to test non-standard specimens and complex components with additional equipment or adapted solutions specifically suited for individual test requirements

Everything has been designed so that it can be easily and flexibly customised without any of the difficulties that are often found in multifunctional devices.

## Stage of Development

Already on the market

## IPR Status

Secret Know-how, Patents granted, Copyright

## Profile Origin

Private (in-house) research

---

## Keywords

### Technology

09001002	Analyses / Test Facilities and Methods
09001005	Mechanical Technology related to measurements
09001010	Thermal material testing
09003	Electronic measurement systems
09006001	Quality Standards

### Market

02007014	Other industry specific software
03004002	Components testing equipment
08002002	Industrial measurement and sensing equipment
08003001	Machine tools, other metal working equipment (excl. numeric control)
08003007	Other industrial equipment and machinery

### NACE

C.26.1.1	Manufacture of electronic components
C.26.5.1	Manufacture of instruments and appliances for measuring, testing and navigation
C.27.9.0	Manufacture of other electrical equipment
C.28.9.9	Manufacture of other special-purpose machinery n.e.c.
M.71.2.0	Technical testing and analysis

---

**Open for EOI :**    **Yes**

---

## Partner Sought



## **Type and Role of Partner Sought**

The company is looking for partners from research and industry that are interested to integrate or modernise testing systems in terms of:

- process integration of testing systems
- modernisation of already existing testing machines/systems
- integration of universal testing machines

## **Type and Size of Partner Sought**

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

## **Type of Partnership Considered**

Commercial agreement with technical assistance  
Technical cooperation agreement

## Technology Offer

---

# Technology to determine the level of Carbon Dioxide (CO<sub>2</sub>) dissolved in liquid within a sealed container and in pressurized transfer lines.

---

## Summary

---

*An Irish Research Centre has developed a patented invention which provides an optical system and method for calculating the level of Carbon Dioxide (CO<sub>2</sub>) dissolved in a liquid stored in a sealed container or being transferred through a pressurized line. They are seeking suitable partners for commercial agreements with technical assistance, license agreement, research cooperation agreement & technical cooperation agreement.*

**Creation Date**      08 April 2016  
**Expiration Date**    11 April 2017  
**Reference**            TOIE20160315001

---

## Details

---

### Description

Carbon dioxide (chemical formula CO<sub>2</sub>) is a colourless and odourless gas. It is a versatile material used, to mention a few, in industry, for example, as an inert gas in welding and fire extinguishers, and oil recovery, as a chemical feedstock and in liquid form as a solvent in decaffeination of coffee and supercritical drying. It is added to drinking water and carbonated beverages including beer and sparkling wine to add effervescence.

An Irish Research Centre conducting both applied and fundamental research on photonics for applications in areas as diverse as telecommunications, medical devices, food and pharmaceutical manufacturing has developed a patented technology which provides an optical system and method for calculating the level of CO<sub>2</sub> dissolved in a liquid stored in a sealed container or being transferred through a pressurized line.

The technology is an optical measurement system, based on the principle of mid- infrared spectroscopy, to directly measure the level of dissolved CO<sub>2</sub> in a carbonated liquid, regardless of its composition.

The most commonly used absorption is found at 4.26µm (2349 cm<sup>-1</sup>) and for example, this is the wavelength is typically used to measure gas phase CO<sub>2</sub> in the atmosphere using transmission spectroscopy.

However, the aim of this system is to measure high partial pressures (1-4 bar) within a closed volume. In this scenario, with the level of CO<sub>2</sub> present in the light path, the absorption at 4.26µm is so strong that it will not allow light to reach the detection system and hence render it useless.

As a result another CO<sub>2</sub> absorption line must be used and in one example 2.004 $\mu$ m (4990 cm<sup>-1</sup>) can be chosen. Although there are other more suitable absorption lines (e.g. 2.779 $\mu$ m) it is the availability of light sources and technology at 2 $\mu$ m that makes it the best candidate for the operating wavelength.

Additionally the absorption line at 2 $\mu$ m is very narrow in comparison to some of the other lines so it lends itself easily to making a comparison measurement of on and off resonance which is how the measurement is achieved.

To ensure the fidelity of this measurement these on and off resonance wavelengths must ideally be close together with a similar transparency through container walls such that any difference in absorption will not unduly affect the measurement.

To realise this on and off resonance arrangement an optical filter can be deployed to tune the wavelength of an LED which will be seen by the detector. This can be done a number of ways and not exhaustive, such as for one example, utilising two separate optical filters with different passbands which correspond to the two measurement wavelengths.

In this way rotation of the filter allows the system to scan across the wavelength range of interest to make the comparison between on and off resonance.

The light is detected using a detector which has response in the 2 $\mu$ m range, i.e. an extended InGaAs (indium gallium arsenide) photodiode. The photodetector is also temperature stabilised in order to ensure the same linear response for different external temperatures and thereby reduce the level of thermal noise.

There is a system software which uses both the calculated partial pressure and the estimated liquid temperature to calculate the level of dissolved CO<sub>2</sub> in units of CO<sub>2</sub> [L] / Liquid [L].

The Research Centre is seeking suitable partners for commercial agreements with technical assistance to imbed the technology, license agreement associated with sector specific, research cooperation agreement to exploit other areas of use & technical cooperation agreement to valorise the technology further.

These partnership opportunities which are available from the Centre are dependent on Expressions of Interest (EOI's) outcomes and can be negotiated on a standalone case or combined.

## Advantages and Innovations

The system can inspect CO<sub>2</sub> partial pressure of closed containers in a non-destructive manner, (provided the container walls are optically transparent to a defined set of wavelengths corresponding to CO<sub>2</sub> absorption band).

The technology utilizes a tuneable narrow-band filter and a broad-band light-emitting diode (LED) for high selectivity of the absorption wavelength of CO<sub>2</sub>.

The measurement is irrespective of the liquid under test as well as the presence of different gasses in the container or line.

The components that comprise the system are cheap and processing is straightforward.

## Stage of Development

Prototype available for demonstration

## IPR Status

Patents granted

## Profile Origin

Private (in-house) research

---

## Keywords

### Technology

02009018	Measurement devices
05003002	Optics
09001007	Optical Technology related to measurements
09001009	Sensor Technology related to measurements

### Market

07002005	Other retailing
07003003	Soft drinks and bottling plants

### NACE

C.11.0.3	Manufacture of cider and other fruit wines
C.11.0.4	Manufacture of other non-distilled fermented beverages
C.11.0.5	Manufacture of beer
C.11.0.7	Manufacture of soft drinks; production of mineral waters and other bottled waters

---

**Open for EOI :**    **Yes**

---

## Partner Sought

### Type and Role of Partner Sought

Depending on an EOI discussion outcome – the possibilities can be with an R&D partner with an agreement to further interrogate & exploit the advantages of the technology.

Commercialisation partner with strategic sector experience with industry that can focus on delivering the technology as an opportunity including technical assistance.

As an opportunity for an SME or large industry in their sector utilising a license.

### Type and Size of Partner Sought

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

## Type of Partnership Considered

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

## Technology Offer

# Controller Area Network (CAN) hub for high reliability and advanced testing in distributed control systems

## Summary

*A Spanish university has developed a novel communication procedure and hub to build Controller Area Networks (CANs) with greater fault isolation, unprecedented testability, and compatibility with COTS components. Technology-based companies engaged in the design, implementation and test of control networks and distributed systems, in domains such as automotive, industrial automation or robotics, interested in a license or a research collaboration agreement are being sought.*

**Creation Date** 19 February 2016  
**Expiration Date** 08 March 2017  
**Reference** TOES20160201001

## Details

### Description

A Spanish research group specialized in electronic technology and awarded Best Work-in-Progress Paper Award in Emerging Technologies has developed an innovative technology based on CAN. The Controller Area Network protocol has been successfully used in many technology areas such as home automation industry, automotive and robotics. The widespread use of CAN is due to its robustness and low cost good performance in real time.

The developed procedure allows the implementation of devices or CAN networks with the aim of providing the following capabilities: discern the contribution that every node transmits and/or receives with a high time resolution; independently inject failures in the transmitted signals; failures detection in every node's contribution and failures tolerance in the communications channel. These capabilities are very useful in embedded systems based on CAN which require high performance warranty.

Technology-based companies engaged in the design, implementation and tests of communications networks of distributed control systems such as industrial automation or robotics, interested in a license or a research collaboration agreement to implement the technology are being sought.

### Advantages and Innovations

The developed technology allows building up CAN-based systems, relying on a transparent star topology, that can attain levels of dependability and testability that are impossible with any other technology proposed for CAN so far.

As concerns dependability, the novel technology allows building CAN networks in which its central element, e.g. a hub, has advanced fault-treatment capabilities. The main advantages in

this sense is that the central element is able to: (1) diagnose faults affecting the nodes or the medium with a precision that is impossible in a CAN bus; and (2) isolate faults that are impossible to passivate when using a bus.

Regarding testability, the developed technology makes it possible to use the central element of the network to implement mechanisms or tools for CAN that allow to: (1) inject errors with a complexity and temporal/spatial resolution that are not possible with any other technology developed for CAN so far; (2) inject errors remotely and simultaneously in several nodes without needing to install local fault injectors in each one of them; and (3) remotely monitor the contribution that each node transmits and/or receives with the same novel high temporal/spatial resolution.

Finally, this new technology allows building up CAN stars in which each node connects to the central element by means of a single link. Thus, unlike other CAN stars, the ones that can be built with this technology are cheaper in terms of wiring/weight and are fully compatible with commercial CAN components and nodes.

## Stage of Development

Prototype available for demonstration

## IPR Status

Patent(s) applied for but not yet granted

## Profile Origin

National or Regional R&D programme

---

## Keywords

### Technology

01001001	Automation, Robotics Control Systems
01002004	Embedded Systems and Real Time Systems
09001002	Analyses / Test Facilities and Methods
09003	Electronic measurement systems

### Market

01006005	Other communications (not elsewhere classified)
03008004	Other electronics related (including alarm systems)
08002002	Industrial measurement and sensing equipment
08002003	Process control equipment and systems
08002004	Robotics

### NACE

M.72.1.9	Other research and experimental development on natural sciences and engineering
----------	---

---

**Open for EOI :**    **Yes**

---

## Partner Sought

---

### Type and Role of Partner Sought

Technology-based companies engaged in the design, implementation and tests of communications networks of distributed control systems such as industrial automation or robotics, interested in a license or a research collaboration agreement to implement the technology are being sought.

### Type and Size of Partner Sought

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

### Type of Partnership Considered

License agreement  
Research cooperation agreement



## Technology Offer

---

# Optical vision system using head-up display technology for application in articles of headgear

---

## Summary

---

*UK R&D technology company with expertise in near eye data delivery systems, optical devices, micro electronic communications hardware and head up display systems is seeking global partners to enter into licence agreements or technical cooperation agreements to consider new applications for optical, head-up display technology currently embedded in its existing product, a motorcycle helmet.*

**Creation Date** 29 February 2016  
**Expiration Date** 09 March 2017  
**Reference** TOUK20160229001

---

## Details

---

### Description

The SME, based in the North East of England was established in 2007 and is an R&D technology company with considerable know how in near eye data delivery systems, optical devices, micro electronic communications hardware and head up display systems that interface safely with users.

The optical device that has been developed is of non-rigid construction and can be installed into a number of articles of headgear where visual data would be an advantage. It's binocular system allows the technology to fit comfortably at the human interface and allows for focal length to the image to be achieved over the top of the head, while not obscuring forward vision due to the device position and the ability of the user to see using their peripheral vision (see attached image).

The internationally patented vision system is currently utilised in a motorcycle helmet, developed by this company and already on the market. The vision system is constructed from a reflective poly carbon plate. In the event of an accident this plate has been designed to react as a crumple zone displacing load across the internal construction of the helmet, in effect a double shell.

The company is seeking international partners to licence the existing technology or to enter into technical cooperation agreements to develop new applications for the technology.

The company is also interested in collaborating with motorcycle manufacturers, GPS manufacturers, companies in aerospace/defence industry, or any companies involved in motorcycle, winter sports and cycling industry.

## Advantages and Innovations

The company has developed a motorcycle helmet that incorporates the vision system which resolves the issue of having to have a large proboscis at the front of existing products, such as in current pilot's helmets or existing gaming headsets.

The technology has the potential to be applied across a number of market segments, including computer gaming, construction, skiing and bicycles. This is due to the compact size and design of the optical cassette that can be installed into an article of headwear.

The optical device 'bends light' around the shape of the head all within the outer shell casing. The outer shell casing is made from a mix of carbon composites to offer a light-weight with full impact resistance in adherence to the Worlds most stringent standards.

The product has been extensively market tested, road and track with real crash evaluations over the products life cycle which is usually five years for a tri fibre composite shell, confirming the optical cassette design, reacting as a crumple zone and stable coating characteristics.

The motorcycle helmet has passed safety standards in testing and has already proved itself on and off the track and is currently homologated to ECE 22.05. INMETRO DOT AS/NZS 1698. 2006 S.A.B. K.S.

## Stage of Development

Already on the market

## IPR Status

Patents granted

## Profile Origin

Private (in-house) research

---

## Keywords

### Technology

01001002	Digital Systems, Digital Representation
02007012	Optical Materials
09001007	Optical Technology related to measurements

### Market

03001008	Display panels
03008004	Other electronics related (including alarm systems)
07001004	Sporting goods, hobby equipment and athletics clothes
07004008	Other consumer products
07006	Other Consumer Related (not elsewhere classified)

### NACE

C.26.4.0	Manufacture of consumer electronics
C.26.7.0	Manufacture of optical instruments and photographic equipment
C.26.8.0	Manufacture of magnetic and optical media

---

**Open for EOI :**    **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

Type of partner sought - the company is interested in speaking to commercial partners, small to medium in size with knowledge of optical vision systems and head-up display technology.

Specific area of activity of the partner - the company would like to speak to GPS manufacturers, motorcycle manufacturers, companies already working with optical vision technology and head-up display technology

The preferred partners would be required to work collaboratively to licence the optical vision system technology and/or to further develop new applications for the existing technology into new market segments.

The company is also interested in collaborating with motorcycle manufacturers, GPS manufacturers, companies in aerospace/defence industry, or any companies involved in motorcycle, wintersports, cycling industry.

### Type of Partnership Considered

License agreement  
Technical cooperation agreement

## Technology Offer

---

# Novel pressure monitoring system for high voltage fluid-filled or oil-filled cables

---

## Summary

---

*A UK company has developed a novel pressure monitoring system for high voltage fluid-filled electricity cables (FFC's), which offers real-time and predictive monitoring of cable insulation. The company is able to adapt the system to specific needs and offer installation and training, and is seeking electricity transmission and/or distribution companies that use oil/fluid-filled cables to retrofit the system into their existing network under a commercial agreement with technical assistance.*

**Creation Date** 03 March 2016  
**Expiration Date** 09 March 2017  
**Reference** TOUK20160303001

---

## Details

---

### Description

Oil or fluid filled cables currently present a number of challenges to electricity companies. These ageing assets need to be checked regularly as oil leaks from them can reduce insulation levels to dangerous levels and can contaminate ground and water courses. Additionally, ongoing maintenance can result in the disruption of traffic and businesses.

The pressure monitoring system developed by the UK Company provides cable asset managers with information to more ably manage these events via an automated reading of pressure along a FFC route, which includes a suite of alarms and an algorithm to provide early warning of leakage. This predictive monitoring allows maintenance works to be more conveniently scheduled, while specific cable sections can be identified for further work on leak resolution.

The company is seeking to appoint contacts from the following countries that might already have underground, oil or fluid filled high voltage cable systems, which may benefit from this system under a commercial agreement with technical assistance.

The countries are:

Austria  
Belgium  
Bulgaria  
Croatia  
Cyprus  
Czech Republic  
Denmark  
Finland  
France

Germany  
Greece  
Guernsey  
Hungary  
Iceland  
Ireland  
Italy  
Macedonia  
Malta  
Netherlands  
Norway  
Poland  
Portugal  
Romania  
Russia  
Slovakia  
Slovenia  
Spain  
Sweden  
Switzerland  
Turkey

The system can be retro-fitted and the company is offering a range of ongoing support, including

- Server hosting
- Secure remote web access
- Communications service management
- Customer systems integration tools
- Procurement, installation and commissioning
- Staff Training

## **Advantages and Innovations**

This asset management tool offers the following advantages:

- Automated reading of pressure along a FFC route
- Early warning of leakages via algorithm alarms
- Additional warning of leakage via threshold alarms
- Online access to data 24/7 for fault monitoring
- Allows prioritisation of maintenance works
- Provides cabinet access control records / alarms
- Option to monitor, temperature, current & contacts
- Isolates cable section for leak location (e.g. perfluorocarbon tracer)
- Gives positive proof of leakage/damage incidents
- Demonstrates best practice environmental control

## **Stage of Development**

Already on the market

## **IPR Status**

Copyright

## **Profile Origin**

Other

---

## Keywords

---

### Technology

01002004	Embedded Systems and Real Time Systems
03004004	Electrical Engineering/ Electrical Equipment
09001009	Sensor Technology related to measurements
09003	Electronic measurement systems
10002010	Remote sensing technology

### Market

03003	Power Supplies
03007002	Other measuring devices
03007003	Other analytical and scientific instrumentation
08001014	Lubricants and functional fluids
08002002	Industrial measurement and sensing equipment

### NACE

D.35.1.2	Transmission of electricity
D.35.1.3	Distribution of electricity

---

**Open for EOI :**    **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

- Type of partner sought: Electricity transmission and/or distribution company
- Specific area of activity of the partner: Use of oil or fluid-filled cables
- Task to be performed by the partner sought: Integrate and adapt the UK company's novel pressure monitoring system to their existing network of underground cables.

### Type of Partnership Considered

Commercial agreement with technical assistance

## Technology Offer

# Technology of Wind Power Potential Analysis

## Summary

*Belarusian R&D institute offers technology and software for analysis of wind potential with reference to conditions of promising sites. Main advantages: easy to operate, a possibility to arrange continuous automated process, low specific energy consumption as compared to core-type reactors. Cooperation in a form of commercial agreement with technical assistance or license agreement are offered.*

**Creation Date** 17 February 2016  
**Expiration Date** 10 March 2017  
**Reference** TOBY20160216002

## Details

### Description

Belarusian R&D institute specialized in development of energy saving equipment and technology offers technology and software for analysis of wind potential with reference to conditions of promising sites. Existing technology solutions does not take into account influence of local relief, artificial obstacles and land roughness on formation of a specific wind climate in a particular region. The technology uses meteorological data from anemometers, located near planned wind plants sites. It evaluates average wind energy in large regions and predicts average annual production of energy by a particular wind turbine located at these sites.

The procedure of selection of wind power equipment installation sites includes the following stages:

- analysis of corresponding regional wind conditions
- analysis of influence of local land relief
- analysis of influence of nearby obstacles
- drawing of resulting distribution of wind speed recurrence (for example, the Weibull distribution)
- calculation of average value of wind flow power on the basis of distribution of recurrence of wind speed (for example, the Weibull distribution) and installed wind turbine power.

Prospective wind power units (WPU) and wind power stations (WPS) sites are selected taking into account high enough wind power potential (WPP) of territories where they can generate maximum of energy, as follows:

- the most elevated and woodless lands of a particular region with strong winds (they are selected with use of corresponding topographic maps)
- sites are analyzed in details on large-scale topographic maps, separate compactly located woodless hills, suitable for WPU installation, are marked out.

Because the technology is ready to sell, cooperation with SME, R&D Institution or University in a form of commercial agreement with technical assistance or license agreement are offered.

Specific area of activity of a partner: wind energy, development methods for analysis of wind power potential. Role of a partner sought: buying the technology and starting offers services with new features based on the offered technology with support of the Belarusian specialists or buying a license and starting offers services with new features based on the offered technology.

## Advantages and Innovations

The analysis technique takes into account influence of local relief, artificial obstacles and land roughness on formation of a specific wind climate in a particular region.

The important result of the technique of WPP analysis at design of wind power parks is optimum placement of WPU in structure of WPS, allowing to lower influence of WPU "shading", especially in a prevailing for a particular site wind direction, and to raise efficiency of use of WPS territories. Selection of optimum distance between WPU excludes significant wind flow screening, at the same time it allows not to alienate significant territories arranged for wind power parks.

## Stage of Development

Already on the market

## IPR Status

Secret Know-how

## Profile Origin

National or Regional R&D programme

## Keywords

### Technology

01003006	Computer Software
04005008	Wind energy
09001002	Analyses / Test Facilities and Methods

### Market

02007028	Other software related
06003003	Wind energy

### NACE

M.72.1.9	Other research and experimental development on natural sciences and engineering
M.74.1.0	Specialised design activities
M.74.9.0	Other professional, scientific and technical activities n.e.c.

**Open for EOI :**    **Yes**



---

## Partner Sought

---

### Type and Role of Partner Sought

Type of partner sought: SME, R&D Institution, University.

Specific area of activity: wind energy, development methods for analysis of wind power potential.

Task to be performed: implementation of technology, further (joint) development of new applications or adaption of technology for specific demand.

Commercial agreement with technical assistance:

Field of partner's activity: wind energy, development methods for analysis of wind power potential

Type of partner sought: SME, R&D Institution, University

Role of partner sought: buying the technology and starting offers services with new features based on the offered technology with support of the Belarusian specialists.

License agreement:

Field of partner's activity: wind energy, development methods for analysis of wind power potential

Type of partner sought: SME, R&D Institution, University

Role of partner sought: buying a license and starting offers services with new features based on the offered technology.

### Type and Size of Partner Sought

University, R&D Institution, SME 51-250

### Type of Partnership Considered

License agreement

Commercial agreement with technical assistance

## Technology Offer

---

### **Dutch SME with unique knowledge regarding the treatment of surfaces offers technical cooperation for development of new polymer materials**

---

#### **Summary**

---

*Dutch SME that specializes in treatment of surfaces of plastics and composite materials offers technical cooperation for development of new polymer materials. The company is looking for partners from industry and research for cooperation in the framework of research cooperation agreements and technical cooperation agreements.*

**Creation Date** 23 March 2016  
**Expiration Date** 30 March 2017  
**Reference** TONL20160321001

---

#### **Details**

---

##### **Description**

Description Engineering plastics do not always have the desired properties. For example, they might lack durability, strength and toughness, porosity or special surface properties. Fibres, added to plastics or composites for reinforcement, might give insufficient strength due to bad compatibility of the fibre surface with the polymer.

This Dutch company has unique knowledge regarding the treatment of surfaces, e.g. with plasma or chemical reactions. It knows how you give special properties to polymer surfaces, for example to make them more slippery, or give more grip to adhesives.

A recent example of this company's knowledge: In collaboration with other partners, this Dutch SME recently started the production of a synthetic graphene oxide (sGO) according to a new synthetic process which makes it environmentally friendlier, less waste and much cheaper. Graphene materials create a possibility to create substantially lighter and tougher composites. This company has collected ample experience to obtain a good dispersion.

The company is offering cooperation in the framework of research and technical cooperation agreements to industry and R&D organisations. Cooperation in EU projects such as Eurostars and Horizon 2020 are also of interest.

##### **Advantages and Innovations**

This Dutch company has unique knowledge regarding the treatment of surfaces of polymeric materials. It also has good connections to a large network of companies and universities of applied sciences in material science. Apart from the knowledge of polymer technology the company also has a keen eye for business. It holds certificates for processing, process &

programme management tools like Prince2(r) and MSP(r) and is an expert in open innovation management.

## Stage of Development

Field tested/evaluated

## IPR Status

Secret Know-how

## Profile Origin

Private (in-house) research

---

## Keywords

### Technology

02007005	Composite materials
02007014	Plastics, Polymers
02007019	Lightweight materials
09001002	Analyses / Test Facilities and Methods

### Market

08001004	Fibre-reinforced (plastic) composites
08001006	Processes for working with plastics
08001018	Polymer (plastics) materials
09003001	Engineering services

### NACE

M.72.1.1	Research and experimental development on biotechnology
----------	--

---

**Open for EOI :** **Yes**

---

## Partner Sought

### Type and Role of Partner Sought

The company is offering cooperation in the framework of research cooperation agreements and technical cooperation agreements to industry developing new polymers materials such as composite or thermoplastics materials with a need for knowledge in this field. The company is also looking for R&D organisations looking for knowledge about polymers characterization and

formulation. The company considers cooperation in EU projects such as Eurostars and Horizon 2020

## **Type and Size of Partner Sought**

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

## **Type of Partnership Considered**

Technical cooperation agreement  
Research cooperation agreement

## Technology Offer

---

# Multicapillary nebulizer for simultaneous nebulization of two or more liquids

---

## Summary

---

*A Spanish university research group has developed a new pneumatic multicapillary nebulizer which allows the simultaneous nebulization of two or more liquids, miscible or immiscible between them. This device offers the possibility of simplifying the analysis process, reducing the consumption of resources and a high mixing efficiency is achieved. A laboratory-constructed prototype is available for any demonstration. The research group is looking for companies interested in license agreement.*

**Creation Date** 01 March 2016  
**Expiration Date** 08 March 2017  
**Reference** TOES20151215001

---

## Details

---

### Description

A common problem of the current multiple nebulization-based systems is the fact that the total nebulizing gas flow rate is divided among the various nebulizers or exit orifices of the nebulizer. Therefore, they usually work under non-optimal nebulizing gas flow rate conditions. This fact adversely impacts on the aerosol transport to the plasma. Moreover, most of these systems have additional problems, such as blocking risk and memory effects, which make them undesirable from an analytical point of view, since they do not allow the analysis of complex real samples (e.g., sea water, wastewater, etc.).

Therefore, it is necessary to develop multiple nebulizer-based systems that enable the sample preparation in aerosol phase, having a low blocking risk, low memory effect, high chemical and mechanical robustness, being easy to handle, having high analyte transport efficiency and universal application to any complex real samples.

In order to overcome the limitations described above, a Spanish university research group has developed a novel multicapillary pneumatic nebulizer which allows the simultaneous nebulization of different liquids, miscible or immiscible between them, by means of several independent liquid input capillaries with a single aerosol outlet orifice.

As shown in Figure 1, the nebulizer outer body (1) comprises a pressure chamber (2) for the flow of a nebulizing gas and an inlet tube (3) of said gas and an outlet orifice (4) thereof, open to the outside. Within the pressure chamber a plurality of liquid input capillaries (5) is housed, said capillaries preferably arranged in parallel, whose outputs (6) are commonly positioned in the area of the aerosol outlet orifice and whose inputs are connected to liquid feeding tubes (7), so that each liquid input capillary is connected to a separate liquid feeding tube. Liquid flows to be nebulized are aspirated or pumped through the various feeding tubes and through the liquid input capillaries of the nebulizer, located within the pressure chamber. At the exit of the liquid

input capillaries, the liquid flows interact with the gas flow at high or low speed, and at high or low pressure in the pressure chamber; liquid and gas flows mix together, forming the aerosol which is pushed towards the outlet orifice of nebulizer expelling the nebulized product to the outside.

Companies (small, medium and large) interested in acquiring this technology are sought to expand its product portfolio with this new nebulizer by license agreement.

## Advantages and Innovations

The multicapillary nebulizer has the following advantages and innovations over current multiple nebulizer devices of the state of the art:

- A high mixing efficiency between different nebulized liquids in the aerosol droplets is achieved because the mixing takes place under turbulent conditions of high pressure and speed.
- Even if liquids are not miscible, the device obtains stable emulsions during the time in which the droplet is transported to the plasma.
- It can work either in a conventional way (by nebulizing a single liquid sample or calibration standard), or by combining the sample preparation and sample introduction by simultaneous nebulization of different liquids.
- The work performed manually is reduced and simplified.
- Uncertainty is reduced and accidental errors in the analysis process are eliminated.
- Significant time saving.
- The amount of samples and reagents are reduced.
- Some processes are intensified due to high pressure and speed of liquid flows in the mixing zone.
- The nebulizing gas flow is not divided between different exit orifices, so the working conditions are equal to the optimum working conditions of the spectrometer. In this way, the quantity of liquid input capillaries can be adjusted to the specific application of the nebulizer.
- It can be constructed using adequate dimensions to allow the connection to any commercial spray chamber (for all manufacturers and models of spectrometers based on plasma).
- Depending on the geometry of the exit orifice of the aerosol, an aerosol with excellent characteristics can be achieved over a wide range of liquid flow leading to different nebulization mechanisms.
- This multicapillary nebulizer allows simultaneous mixing and nebulization of two or more liquids, miscible or not.
- This device differs from other conventional nebulizers or multiple nebulizers, by the large number of independent liquid input capillaries with a single exit orifice of the aerosol

## Stage of Development

Prototype available for demonstration

## IPR Status

Patents granted

## Profile Origin

Private (in-house) research

---

## Keywords

---

### Technology

02002012	Mixing (powder, etc.), separation (sorting, filtering)
02007009	Materials Handling Technology (solids, fluids, gases)
05001001	Analytical Chemistry
09001002	Analyses / Test Facilities and Methods

### Market

03007003	Other analytical and scientific instrumentation
05001004	Forensic science
05003005	Drug delivery and other equipment
05005002	Ophthalmology, ear, nose and throat diseases
05005007	Pulmonary medicine

### NACE

M.72.1	Research and experimental development on natural sciences and engineering
P.85.4	Higher education

---

**Open for EOI :**    **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

Companies that develop liquid nebulization technologies in spectrometric techniques in the field of chemical analysis.

The multicapillary nebulizer can be used for the following application:

- Sample dilution (allowing the automatization of the dilution process).
- Internal standard calibration (allowing interference corrections).

- Standard addition calibration (allowing the automatization and simplification of the process).
- Isotopic dilution analysis.
- Derivatization and chemical vapour generation of analytes (allowing chemical reactions to take place in aerosol phase between the analytes of the sample and calibration standards, and one or more reagents).
- Organic sample analysis (allowing the organic sample analysis in the plasma by emulsifying with aqueous solutions. A high mixing efficiency is achieved and the formation of carbon deposits on the exit orifice of the injector tube is removed).
- Liquid-liquid extraction (reducing the experimental time, analyte losses and sample contamination. In addition, large sample amounts, expensive organic reagents and/or toxic ones are not required).
- Discrete samples/standards introduction (directly introducing the analyte in a discrete way in aerosol phase into the spray chamber, removing diffusion problems).

Co-operation partner: companies that develop new industrial applications in any of the fields above explained to increase their competitiveness through innovation of this new device.

### **Type and Size of Partner Sought**

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

### **Type of Partnership Considered**

License agreement



## Technology Offer

---

# Method and device for time encoding of ultrasonic impulses

---

## Summary

---

*A German scientist from a university in the North-east of Germany developed a method and a device that reduces the occurrence of faulty ultrasonic images by time encoding, applicable in human medicine as well as material technologies. Industrial partners are sought for a license agreement or a further development on the basis of research cooperation agreement.*

**Creation Date** 14 March 2016  
**Expiration Date** 08 April 2017  
**Reference** TODE20160308001

---

## Details

---

### Description

Ultrasonic imaging is widely used in applications for medical and material inspection. The basic principle is an Impulse-Echo-mechanism in which a sonic wave is generated and then reflected by organic tissue. With constant speed of sound the time between sending and receiving of the signal can be used to determinate a distance. With this information it is now possible to form the different distances of all reflecting surfaces into one ultrasonic scan.

A problem with ultrasonic scans are artifacts which are results of faulty time correlations, the main reasons for faulty resulting images. Furthermore, the depth of signal penetration is determined by the frequency of impulse repetition. Goal of this innovation is to reduce the occurrence of faulty images by removing artifacts as well as enhancing the signal penetration depth.

The offered method describes a mechanism in which the ultrasonic impulse is time encoded by adding a time signal to the main pulse. By alternating between time encoded and normal impulses it is possible to determinate which of the received signals was send at an even or an uneven cycle. Faulty echo detection is prevented by this method along with the possibility to double the sending frequency which leads to twice the penetration depth.

Additionally, it is possible to encode the ultrasonic impulse further by using amplitude modulation. With this mechanism the received signal is spited into a measurement and an encoded signal. By doing so it is possible to allocate time and volume information to the received signal. Because of this allocation the occurrence of artifacts is further reduced which leads to a higher quality of ultrasonic scans.

This innovation is applicable in various fields, e.g. human medicine and in detection of corrosion/degration of materials.

The scientist wants to find an industrial partner who is interested in a license agreement and/or

a further development on the basis of a research cooperation agreement in order to generate a functional model or a prototype to commercialize the innovation.

## Advantages and Innovations

- less faulty scans (higher quality of the scans) by filtering artifacts
- higher signal penetration depth
- better handling of non-vertical reflections as well as signal scattering

## Stage of Development

Concept stage

## IPR Status

Patent(s) applied for but not yet granted

## Profile Origin

Private (in-house) research

## Keywords

### Technology

01003006	Computer Software
01003012	Imaging, Image Processing, Pattern Recognition
02007015	Properties of Materials, Corrosion/Degradation
06001005	Diagnostics, Diagnosis
09001001	Acoustic Technology related to measurements

### Market

05002003	Ultrasound imaging
05004005	Diagnostic equipment
08001012	Speciality metals (including processes for working with metals)

### NACE

M.72.2.0	Research and experimental development on social sciences and humanities
Q.86.1.0	Hospital activities
Q.86.2.2	Specialist medical practice activities

**Open for EOI :** **Yes**

---

## Partner Sought

---

### Type and Role of Partner Sought

Type of partner sought:

- Industry

Specific area of activity of partner:

- Medical technology, Material engineering, imaging method

Task to be performed:

- interest in development cooperation and commercialization of the invention

### Type and Size of Partner Sought

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

### Type of Partnership Considered

License agreement

Research cooperation agreement

## Technology Offer

---

# UK university developing a novel device for assessing macular pigment optical density seeks pharmaceutical producers, lens/medical device manufacturers

---

## Summary

---

*A vision scientist and neuroethologist at the school of biological sciences of a UK university seeks pharmaceutical producers, lens/medical device manufacturers to help take the technology from research level prototype to commercial product. The technology is a non-invasive novel device for assessing macular pigment optical density. Partners are sought on a commercial agreement with technical assistance or technical cooperation agreement basis.*

**Creation Date** 24 March 2016  
**Expiration Date** 01 April 2017  
**Reference** TOUK20160324001

---

## Details

---

### Description

A vision scientist and neuroethologist at the school of biological sciences of a leading UK university has developed a novel approach/technology to diagnose important aspects of human eye health. The device can give an estimate of someone's macular pigment density linked with the patient's chances of going blind later in life from age related macular degenerations (AMD).

AMD is the leading cause of incurable blindness in the western world. Research indicates that AMD currently affects more than 600,000 people in the UK and is the leading cause of vision loss, by 2020 it's predicted almost 700,000 people will have late-stage AMD in the UK. The condition is most common in people over the age of 50. It's estimated 1 in every 10 people over 65 have some degree of AMD and with no cure for either type of AMD early diagnosis is essential for reducing the risk of severe vision loss. Macular pigments can only be acquired through your diet and so it is important to assess your macular pigment density as an indicator for eye health.

Complex equipment is available to detect/diagnose AMD however market research demonstrates that there is a potential market opportunity for niche technologies. The technology developed is a non-invasive, rapid and affordable device that measures an aspect of the health of the human eye (macular pigment concentration). In under two minutes this simple non-invasive visual test can tell someone if their macular pigment concentration is low, in which case they are already suffering low contrast sensitivity and poor vision due to glare, but may also be at risk for later developing age-related macular degeneration, the leading cause of incurable blindness in the UK. The test could be used as part of regular optometry or GP health checks as a tool for measuring eye health, potentially preventing AMD. It could also be used to inform people if they should consider purchasing eye vitamins/supplements or get UV-blue blocking

coatings put on the lenses of their prescription glasses.

Preliminary clinical trials demonstrate that this technology is at least as accurate in assessing macular pigment optical density as the best available technology presently available. Market research is in progress to understand how this new technology could find a place in modern medical practice and specifically eye health exams performed by optometrists.

Collaborations on a commercial agreement with technical assistance or technical cooperation agreement basis are sought to inform market assessment, further product development and commercialisation strategy.

## Advantages and Innovations

Whilst complex equipment is available to detect/diagnose AMD there is a demonstrated market opportunity for niche technologies that would allow:

- rapid (less than 2 minutes) non invasive threshold test for AMD that can potentially also be used as a prevention tool
- significantly reduced cost and much easier to use compared to existing technologies currently on the market
- not limited to use by optometrists but potential uses in food supplement manufactures and dietitians, also potential for global appeal if considering the wider impacts of AMD and correlation to diet in under developed countries.

The technology developed provides:

- a non invasive threshold test that rapidly assesses macular pigment density that can potentially also be used as a prevention tool for AMD
- novel approach enables significantly reduced cost compared to existing technologies currently on the market
- unlike all previous technologies for measuring macular pigments, this new approach is exceptionally easy to use for both clinician and subject, and has an extremely small footprint (hand held device)
- not limited to use by optometrists but potential uses in food supplement manufactures and dietitians, also potential for global appeal if considering the wider impacts of AMD and correlation to diet in under developed countries.

## Stage of Development

Prototype available for demonstration

## IPR Status

Patent(s) applied for but not yet granted

## Profile Origin

Other

---

## Keywords

### Technology

06001005

Diagnostics, Diagnosis

06001013

Medical Technology / Biomedical Engineering

06001015	Pharmaceutical Products / Drugs
09001007	Optical Technology related to measurements
09001009	Sensor Technology related to measurements

## Market

05001007	Other diagnostic
05004004	Medical instruments
05004005	Diagnostic equipment
05007004	Monitoring equipment
05007007	Other medical/health related (not elsewhere classified)

## NACE

P.85.4.2	Tertiary education
Q.86.9.0	Other human health activities

---

**Open for EOI :** **Yes**

---



---

## Partner Sought

---

### Type and Role of Partner Sought

Partners are sought to help take the technology from research level prototype to commercial product. Of specific of interest are industrial partners including pharmaceutical producers, lens manufacturers and medical device manufacturers who can inform/support the development, practical application and role out of the new technology. For example as follows:

- pharmaceutical companies that produce eye supplements that contain macular carotenoids to help assess market size/opportunity and future resale opportunities
- optometry/ophthalmology device and lens manufacturers to discuss the product development pathway, costs associated with development/certification and future resale opportunities.

Collaborations on a commercial agreement with technical assistance or technical cooperation agreement basis are sought to explore the commercial viability of taking the new technology to market.

### Type and Size of Partner Sought

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

### Type of Partnership Considered

Commercial agreement with technical assistance  
Technical cooperation agreement

## Technology Offer

# Non-harmful optical clearing of biological samples

## Summary

*A German university offers new substances to prepare biological samples for three-dimensional imaging. The innovation lies in the fact that no harmful chemicals are applied while the fluorescence preservation results remain comparable. The related method is furthermore inexpensive and easy to handle. Industrial licensees are sought.*

<b>Creation Date</b>	16 March 2016
<b>Expiration Date</b>	18 March 2017
<b>Reference</b>	TODE20160316001

## Details

### Description

There is currently a strongly growing need for methods and chemicals for the preparation of large biological samples for three-dimensional imaging. The latest developments in microscopy and imaging techniques (e.g. light-sheet microscopy, two-photon microscopy, optical projection tomography) facilitate the display of large three-dimensional tissue samples.

Refractive index matching of the biological sample with the surrounding medium is an established method for optical clearing of entire organs, where the key challenge, that is the preservation of fluorescence staining, has been performed already. However, all of the currently established protocols are based on the use of harmful chemicals (ref. Richardson & Lichtman).

A German university now offers an invention that substitutes these harmful chemicals with a non-harmful substance with comparable results of fluorescence preservation. By means of this substance, an easy to use protocol has been established that allows a safe optical clearing of biological samples for microscopy even by unpracticed laboratory personnel.

Industrial licensees are sought for use and further development. The invented substance and protocol are of high interest for any supplier or company in the field of microscopy and imaging techniques. The unique selling proposition is that the herewith offered invention constitutes the sole methodology for optical clearing of biological samples without use of harmful chemicals combined with high quality fluorescence preservation.

### Advantages and Innovations

- First and only protocol for optical clearing that completely dispenses with harmful chemicals
- Clearing process fully preserves fluorescence-staining for high quality imaging
- Inexpensive and easy to use method

### Stage of Development

Under development/lab tested

## IPR Status

Patent(s) applied for but not yet granted

## Profile Origin

Private (in-house) research

---

## Keywords

### Technology

01003012	Imaging, Image Processing, Pattern Recognition
06001015	Pharmaceutical Products / Drugs
06002	Biology / Biotechnology
09001007	Optical Technology related to measurements

### Market

05001	Diagnostic
05002	Medical imaging
05007002	Pharmaceuticals/fine chemicals
06001006	Chemicals and materials
08001	Chemicals and Materials

### NACE

M.72.1.1	Research and experimental development on biotechnology
----------	--

---

**Open for EOI :**    **Yes**

---

---

## Partner Sought

### Type and Role of Partner Sought

Industrial licensees are sought. Potential partners are active in microscopy or imaging, e.g., in pharmaceutical, diagnostic, chemical or process engineering industry.

They will have access to rights for commercial use as well as the opportunity for further co-development, e.g. of a kit.



## Type of Partnership Considered

License agreement

## Technology Offer

---

# Differential detection system over optical fiber based on Brillouin stimulated scattering.

---

## Summary

---

*A research group of a Spanish University working on optical communications has developed a system and method for optical fiber sensing based on Brillouin stimulated scattering. It implements any techniques based on Brillouin stimulated scattering. It consists in separating the two signals which comprises the probe signal. The group is looking for licensing agreements and commercial agreements with technical assistance.*

**Creation Date** 11 March 2016  
**Expiration Date** 18 March 2017  
**Reference** TOES20151006002

---

## Details

---

### Description

In optical fibres, light waves propagate along big distances. Measuring the environment influences on the properties of the light that travels, the fibres can be used to detect, monitor, and even to measure external perturbations. Brillouin scattering, a nonlinear phenomenon strong dependence on environmental variables (strain and temperature), can be used in distributed fibre sensor systems.

The optical fibre constitutes the medium where the interaction takes place, acting at the same time as distributed transducer and optical channel. These sensors are capable of measuring the change of a specific parameter along the entire fibre.

But the dynamic range (correlated with the maximum fibre-length of the transducer) and the spatial resolution (minimum fibre-length required to measure to consecutive perturbations or events) must be improved.

The research group of a Spanish public University working fibre optical sensors has solved the long-standing problems. The new sensing method implements any of the techniques based on Brillouin stimulated scattering (Brillouin Optical Time Domain Analysis (BOTDA), Brillouin Optical Frequency Domain Analyzer (BOFDA) and Brillouin Optical Coherency Domain Analyzer (BOCDA) systems, including their variants) by a differential detection of amplified and attenuated bands.

The new distributed sensing method consisting in separating the two signals corresponding to the amplified band and attenuated band along the optical fiber. Thereof a signal is obtained with higher amplitude than in the case of performing a detection with a single band. With this increase in the amplitude the signal-to-noise ratio of the sensor signal is improved, improving the dynamic range and increasing the length scope and at the same time decreasing the uncertainty of the measurement.

The distributed sensing system includes:

- Light emitting means adapted to emit the probe and pump signals on the optical fibre.
  - Discriminating means adapted to separate the two signals corresponding to the amplified band and attenuated band along the optical fibre subject to monitoring.
  - Detection Means adapted to obtain the difference between band of amplification and stimulated attenuation band or vice versa.
  - Analyzing means, adapted to implement the distributed sensing technique based on Brillouin scattering using the differential measurement of amplification band and the attenuation stimulated band, instead of the measurement of a single band as in conventional systems.
- The research groups research lines include photonic engineering, optical communication and fibre optical sensors.

They are looking for companies in the technology sector and telecommunications to reach licensing agreements and commercial agreements with technical assistance.

## Advantages and Innovations

Innovations:

Sensing system and method that implements any of the techniques based on stimulated Brillouin scattering by a differential detection of amplified and attenuated bands.

Distributed sensing comprising separating the two signals corresponding to the amplified band and attenuated band. Obtaining a signal with higher amplitude and improving the signal to noise ratio.

Advantages:

With this method the sensor signal relationship between signals to noise is improved. Dynamic range and scope length increase as well as reduces the measurement uncertainty.

The common noise presented in the two bands of the probe signal is eliminated.

In the case of using a balanced detector for detection, the detector saturation characteristics are improved, and can be obtained with much larger amplitudes than in the conventional case of signal detection.

## Stage of Development

Prototype available for demonstration

## IPR Status

Patent(s) applied for but not yet granted

## Profile Origin

Other EU programme

---

## Keywords

### Technology

01006009

Signal Processing

09001007

Optical Technology related to measurements

## Market

03006 Fibre Optics

## NACE

M.72.1.9 Other research and experimental development on natural sciences and engineering

---

**Open for EOI :** **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

The group seeks to achieve licensing agreements, but it is also open to reach commercial cooperation with technical assistance with civil engineering firms, industry, energy, and environment, and in those sectors in which long distance monitoring on temperature and deformation are required.

The technical assistance, regarding commercial agreements, is related to the product implementation advice and issues arising from this process.

### Type and Size of Partner Sought

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

### Type of Partnership Considered

License agreement  
Commercial agreement with technical assistance

## Technology Offer

---

### **A Polish company producing radiometric coal analyser enabling measurements of coal quality parameters is looking for technical cooperation partners.**

---

#### **Summary**

---

*A Polish company operating for over 25 years on the market of research and implementation services for the coal and power industry, has developed and manufactures devices for quick or continuous measurements of coal and brown coal quality parameters. It is seeking companies from mining, power, and mineral processing industries to conduct joint research and development works or technical cooperation agreement.*

**Creation Date**            21 December 2015  
**Expiration Date**        17 March 2017  
**Reference**                TOPL20151221001

---

#### **Details**

---

##### **Description**

A Polish company is dealing with development, production and industrial implementation of equipment for quick, technological measurements of primary quality parameters of coal and brown coal (ash, moisture, sulfur content and calorific value).

Now it has developed an innovative radiometric scattering and absorption method for ash content measurements.

It is based on exposing the coal layer to low-energy gamma rays (from the top) and registering the gamma ray beams reaching detectors located underneath the conveyor belt. The basis of this method is proper configuration of the source-detector system, while increasing the source's activity. Instead of a single detector, a system of two detectors has been introduced. A solution based on a single radiation source and two detectors enables gaining information both about the ash content and the surface density of the inspected coal. As a result, this enables accurate determination of ash percentage in the tested coal.

The radiometric coal quality testing method enables actual online measurements on rope belt conveyors (reinforced steel ropes), which - except for neutron methods, which are highly expensive - was not possible before, anywhere in the world. Based on the developed system it is expected to work with the partner in a field of improvements the measurement methods in particular improve the measurement efficiency of coal mixture, coal arranged in different layers or poorly mixed coal. The expected result of the improvements also concern measuring the larger streams of coal covered by the radiometric coal analyser.

##### **Advantages and Innovations**

The main advantages are as follows:

- Ash content in coal can be continuously measured on conveyors with any belts (including steel

ropes - complete novelty).

- 35-50% of the coal flow is covered by the measurements
- The highest representativeness of measurement results
- Ash content can be continuously and effectively measured in coal mixtures and in coal arranged in layers or poorly mixed.
- Perfect safety of use - a single, optimal source of soft gamma radiation (60 keV).
- Measurement systems installed statically (no scanning).
- No contact of measurement systems with the coal.

## Stage of Development

Already on the market

## IPR Status

Patents granted

## Profile Origin

Private (in-house) research

---

## Keywords

### Technology

04009	Carbon capture and energy
09001002	Analyses / Test Facilities and Methods

### Market

06005001	Coal mining
06005002	Coal related equipment
06005003	Other coal related

### NACE

B.09.9.0	Support activities for other mining and quarrying
----------	---

---

**Open for EOI :** **Yes**

---

## Partner Sought

## **Type and Role of Partner Sought**

Cooperation is sought with companies and institutions of the mining and power industries that are looking for opportunities to determine their needs in terms of raw material quality measurement systems, purchase of coal quality measurement systems, conducting research and development works and/or technical cooperation agreement. The essence of collaboration with technical partners focusing on improvement the measurement efficiency of coal mixture as well covering the larger coal flow by the radiometric coal analyser.

## **Type of Partnership Considered**

Technical cooperation agreement  
Research cooperation agreement

## Technology Request

---

# Looking for new technologies and applications to integrate in drones and develop public and civil solutions

---

### Summary

---

*A Spanish SME specialized in developing RPAS (Remotely Piloted Aircraft Systems) and Unmanned Aerial Vehicle (UAV) related technologies is looking for new technologies such as sensors, applications and software to integrate and improve their already developed RPAS to develop specialized high-level solutions. A technical cooperation agreement is sought.*

**Creation Date** 07 March 2016  
**Expiration Date** 09 March 2017  
**Reference** TRES20160307001

---

### Details

---

#### Description

A Spanish SME experienced and focused on developing Remotely Piloted Aircraft Systems / Unmanned Aerial Vehicle (UAV/RPAS) and integrating new technologies to drones, is looking for new applications that can be integrated on UAV/RPAS. The company is experienced in all engineering areas related to unmanned aerial systems, their control and command, and the third parties payload integration in order to provide specialized solutions for a broad range of applications.

Their UAV/RPAS are lightweight systems with a powerful payload/airframe ratio, suitable to be classified in the MALE (Medium Altitude, Long Endurance) category which can offer a long autonomy RPAS which can be used to integrate all kind of sensors and offer a complete solution to companies from several sectors.

This SME has long experience in civilian applications using remote sensing techniques and has experience developing solutions for smart cities, forest & fire management and agriculture amongst others.

This SME has been performing projects jointly with specialized sensor manufacturers and research institutions, providing their capabilities to develop ad-hoc airframes as well as their competencies on fine tuning for complex aerial systems, test and validation.

Due to the wide range and diversity of projects, there are a set of examples classified by type of partners involved and project impact.

- Remote-sensing device manufacturers for agriculture, society and waste control: orthophotography, digital elevation models, aerial thermography and georeferenced aerial



images.

- Ad-hoc sensors from research institutions for climate change and environment control: atmospheric data surveillance, river flow anomalies, dynamics of the river-sea interface on delta, forestry health & wealth evaluation.

- Sensor integration and novel software for secure societies: mine location and their geo-referencing (demining campaigns), human disaster response and automated search and rescue.

Their focus also includes all test and validation campaigns to help third parties in the payload integration validation and characterization, also command & control systems and flight planning systems, in order to help third parties in a seamless deployment to operational stage.

This SME is looking for solutions/sensors that could help improve processes once they are integrated on a custom-made drone and is offering their capabilities and technology to add value to any sensor, device or application suitable to integrate in an autonomous flying system.

A technical cooperation agreement is sought with companies with state of the art technologies that are looking to integrate them in drones to increase the capabilities of the technology and offer a differential and more innovative and efficient solution.

## Technical Specification or Expertise Sought

The sensor and/or application should be:

- Suitable to be integrated in an RPA/UAV
- It should be unique
- It should solve a specific demand from one of the industries mentioned on the profile.
- It should be already on the latest stages of development and/or on the market

## Stage of Development

Available for demonstration

## IPR Status

Secret Know-how

## Keywords

### Technology

01001001	Automation, Robotics Control Systems
01003023	Environmental and Biometrics Sensors, Actuators
01004007	GIS Geographical Information Systems
02011001	Aeronautical technology / Avionics
09001009	Sensor Technology related to measurements

### Market

05004002	Rescue and emergency equipment
09001006	Airfield and other transportation services
09003001	Engineering services
09005	Agriculture, Forestry, Fishing, Animal Husbandry & Related Products

### NACE

C.26.5.1	Manufacture of instruments and appliances for measuring, testing and navigation
M.71.1.2	Engineering activities and related technical consultancy
M.72.1.9	Other research and experimental development on natural sciences and engineering
M.74.9.0	Other professional, scientific and technical activities n.e.c.

---

**Open for EOI :** **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

- Type of partner sought: A technical cooperation agreement with R&D centre, university and/or private company with solutions such as technologies related to sensors, applications and software that can potentially be integrated in RPAS
- Specific area of activity of the partner: sensors, solutions that cover a large extension of land such as agriculture, wildfire, smart city, applications or services suitable to be improved by integrating them in an automated aerial framework such as telecommunications, border security, facilities surveillance, etc.
- Task to be performed by the partner sought: provide the expertise on the solution (application, sensor, etc) and collaborate integrating it on an RPA. Prepare a suitable business plan proposal for the RPAS/UAV application integration and its market opportunity, in order to perform a risk/benefit assessment in the early cooperation stages

### Type and Size of Partner Sought

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

### Type of Partnership Considered

Technical cooperation agreement

## Technology Request

---

# Seeking technical cooperation with sensing engineering companies

---

## Summary

---

*A Spanish SME active in the area of ICT (Information and Communication Technologies) is interested in getting in contact with potential partners (SMEs) in the fields of M2M (machine-to-machine) and IoT (Internet of Things). The potential partners should contribute via technical cooperation with their knowledge of sensors market as well as expertise in sensor integration (into device) and communication with developed APPs (Applications for Mobile devices)*

**Creation Date** 07 March 2016  
**Expiration Date** 15 March 2017  
**Reference** TRES20151210001

---

## Details

---

### Description

A Southern Spanish SME with a intensive activity in the design and programming of APPs (Applications for Mobile devices) is looking for potential partners for technical cooperation in the next fields:

- \* M2M (machinetomachine)
- \* IoT (Internet of Things).

They are very interested in getting in contact with partners that provide engineering services related to sensing.

The partner should contribute with knowledge and expertise in the areas of Internet of Things and M2M (Machine to Machine).

The Spanish SME will develop the specific APP that will make use of information collected via sensors previously integrated into the mobile device.

The technical cooperation approach will be oriented to several sectors since the Spanish technology based SME is starting a new line in the areas hereby exposed: Internet of Things and Machine2Machine.

### Technical Specification or Expertise Sought

The potential partner should have capabilities for:

- \* Designing the sensing architecture of the project. The Spanish SME would send requirements and the partner should choose the suitable sensors as well as make the integration into the final product.
- \* Integration into a physical hub. The partner should have a hub for making integration of all

sensors.

\* Data output. Sensors should include a software layer for connection so that data can be collected and managed.

## Stage of Development

Already on the market

## IPR Status

Secret Know-how

---

## Keywords

---

### Technology

01003023	Environmental and Biometrics Sensors, Actuators
01003025	Internet of Things
06005002	Sensors & Wireless products
09001009	Sensor Technology related to measurements
10002010	Remote sensing technology

### Market

03001	Electronic Components
08002002	Industrial measurement and sensing equipment
08002004	Robotics

### NACE

J.62	Computer programming, consultancy and related activities
------	--

---

**Open for EOI :**    **Yes**

---

---

## Partner Sought

---

### Type and Role of Partner Sought

Type of partner: Companies/SMEs.

Area of activity: Sensing engineering, sensors.

Role: They would technically cooperate in the fields of M2M (machinetomachine) and IoT (Internet of Things) technologies.

The partner sought should provide not only his expertise and knowledge of the sensors market, but also sensors integration and interoperability with the APP developed by the Spanish SME.

**Type and Size of Partner Sought**

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

**Type of Partnership Considered**

Technical cooperation agreement

## Technology Request

---

### **Partners sought in the field of agriculture and civil security to integrate existing sensor-based solutions into drones.**

---

#### **Summary**

---

*French SME that manufactures fully plug-and-play Remotely Piloted Aircraft Systems (RPAS) looks for partners in the fields of agriculture and civil security to co-develop drone-integrated solutions responding field real needs. A joint venture agreement is ideally sought.*

**Creation Date** 21 March 2016  
**Expiration Date** 29 March 2017  
**Reference** TRFR20160321001

---

#### **Details**

---

##### **Description**

This French SME has been specializing since 2009 in Remotely Piloted Aircraft Systems (RPAS). Managed by an experienced engineer, the company is acquainted to controlling and commanding unmanned aerial systems.

The company just finalized two prototypes of MALE (Medium Altitude, Long Endurance) drones, which have the advantages to be vertical take off and landing and fully plug-and-play. It has therefore the ability to integrate any existing sensor-based application into its aircraft systems. This enterprise has already been working locally with civil security institutions and wineries to integrate specific application into its drones. Its objective now is to co-develop joint solutions with enterprises for specific applications. It therefore needs a partner willing to integrate already existing sensor-based applications in its plug-and-play drones.

The company therefore wants to collaborate through a joint venture agreement with enterprises of the civil security and agriculture fields. It offers its engineering capabilities in the command, control and flight planning systems in order to allow the deployment of the jointly-developed solution to an operational scale. The final goal of the project is to develop replicable ready-to-market solutions.

##### **Technical Specification or Expertise Sought**

This SME looks for partners in the agriculture and civil security which sensor-based applications are to be integrated into a drone. The co-developed solution should respond a real need that exists in the partner's sector, whether solving a problem or optimizing an existing process for farmers, breeders or civil security authorities (fire rescue teams, police forces, etc.).

##### **Stage of Development**

Field tested/evaluated

## IPR Status

Secret Know-how

---

## Keywords

### Technology

01003021	Remote Control
02011002	Aircraft
09001009	Sensor Technology related to measurements
10002010	Remote sensing technology

### Market

05004002	Rescue and emergency equipment
06006002	Metering and monitoring
08002002	Industrial measurement and sensing equipment
09001006	Airfield and other transportation services
09005	Agriculture, Forestry, Fishing, Animal Husbandry & Related Products

### NACE

C.30.3	Manufacture of air and spacecraft and related machinery
C.30.3.0	Manufacture of air and spacecraft and related machinery

---

**Open for EOI :** **Yes**

---

## Partner Sought

### Type and Role of Partner Sought

This SME is looking for partners being enterprises working in the field of agriculture or civil authorities. In both cases, they should have sensor-based applications offering the possibility to be integrated into an aircraft system, related to applications such as, for example : wine storehouses controlling, forest fire monitoring, meteorology, smart cities, etc.

It will be expected from the partner to collaborate in the definition of the tender specifications of the jointly developed solution, as well as providing its full expertise in its field. Help will also be expected in the final marketing of the developed solution.

## **Type and Size of Partner Sought**

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

## **Type of Partnership Considered**

Joint venture agreement



# Asuntos Sociales y Económicos

## Research & Development Request

---

# Development of a cluster in order to support social enterprises in all stages of the business cycle (BalkanMED call)

---

### Summary

---

*A Greek institute of entrepreneurship suggests a project proposal addressing the BalkanMED call with the deadline of April 15th 2016. The proposed project is focused on the enhancement of women entrepreneurship and the support of competitive social enterprises. The institute is willing to complement a consortium with SMEs in the consulting services sector (active in social enterprises consulting) under a research cooperation agreement.*

**Creation Date**            07 March 2016  
**Expiration Date**        15 March 2017  
**Reference**                RDGR20160303001

---

### Details

---

#### Description

The project concerns the enhancement of social economy sector in BalkanMED regions. The main goal is to support the target groups (mostly women) in establishing viable and competitive social enterprises. The project adopts a holistic approach and as a preparatory phase contains activities for the evaluation and certification of the learning outcomes of social economy consultants. The next step will be the training, consulting and coaching of the enterprises and their personnel in social economy through innovative online consulting tools. The proposed project will be based on tools and methodologies that have been previously developed.

#### Main Activities:

1. Online business support for social enterprises
2. Development of common certification system for sustainable social enterprises
3. Promotion of the common product/service in all the participating countries
4. Launch of the regional competition of innovative projects for the enhancement of BalkanMED social economy

The project promotes the integrated territorial development and cooperation to stimulate business performance and extroversion through transnational linkages, clusters and networks. The main goal is the improvement of the transnational innovation capacity of businesses and the knowledge transfer for more competitive SMEs.

The institute is currently looking for a research cooperation agreement with partners (SMEs) active in the consulting services to social enterprises in order to complement a consortium.

Proposal Deadline: 15 April 2016

Deadline for Eols: 30 March 2016

---

## Keywords

---

### Technology

11001	Socio-economic models, economic aspects
11003	Information and media, society

### Market

09003005	Consulting services
09003007	Other services (not elsewhere classified)

### NACE

J.63.9.9	Other information service activities n.e.c.
S.96.0.9	Other personal service activities n.e.c.

---

**Open for EOI :** **Yes**

---

---

## Client

---

### Languages Spoken

English  
Greek

---

## Partner Sought

---

### Type and Role of Partner Sought

Ideal partners should be SMEs from the consulting services sector to complement a competitive consortium under research cooperation agreement and will take part on the following activities:

- Online business support for social enterprises
- Development of common certification system for sustainable social enterprises
- Promotion of the common product/service in all the participating countries
- Launch of the regional competition of innovative projects for the enhancement of BalkanMED social economy

## Type of Partnership Considered

Research cooperation agreement

## Technology Offer

# Instrument for supply chain management

## Summary

*Scientific group from Lithuanian university developed an instrument which allows optimize product demand, inventory-making and distribution processes for companies. Instrument is based on unique statistical mathematical model which allows to model random factors influencing demand of a certain company. Group is looking for a partners to develop and adopt instrument according potential customer needs.*

**Creation Date** 04 April 2016  
**Expiration Date** 04 April 2017  
**Reference** TOLT20160404001

## Details

### Description

Created a unique product ordering and distribution tool, using mathematical modeling, the grouping of goods and stocks according to the ABC system (taking into account the fact that different stock and commodity realization: intense selling, moving and practically immobile). For that reason, ordering and distribution processes must be differentiated with a minimum effort, but fetching the maximum reliability evaluation of random processes. Scientific group has an expertise in mathematical modeling.

### Advantages and Innovations

Most of the proposed scientific models are static, but real economic processes - dynamic. Designed measure in view of the potential of certain enterprises economic factors, fluctuations due to the probabilistic assessment of supply and demand. Agent modeling is incorrectly used method in many countries, but is one of the best this kind of problems.

### Stage of Development

Available for demonstration

### IPR Status

Secret Know-how

## Keywords

### Technology

11001                      Socio-economic models, economic aspects

### Market

09003005

Consulting services

## NACE

M.72.1.9

Other research and experimental development on natural sciences and engineering

---

**Open for EOI :** **Yes**

---

---

## Client

---

### Languages Spoken

English

---

## Partner Sought

---

### Type and Role of Partner Sought

The type of Partner Sought - academic, research organisation.

The tasks to be performed by the partner sought - to develop and adopt instrument for potential businesses needs.

### Type and Size of Partner Sought

University,R&D Institution

### Type of Partnership Considered

Technical cooperation agreement

Research cooperation agreement

## Technology Offer

### App that links public bodies with the citizens

#### Summary

*An Italian start-up working in IT field, developed an app to renovate and consolidate the relationship between the public bodies and their citizens, that always pay the price of the often outdated bureaucracy. This can occur simply using a personal computer, smartphone or tablet. Company is looking for partners interested in a commercial agreement with technical assistance, commercial agency agreement or joint venture agreement.*

<b>Creation Date</b>	03 March 2016
<b>Expiration Date</b>	21 March 2017
<b>Reference</b>	TOIT20160303001

#### Details

##### Description

A southern Italy based start-up with IT know-how, created an app that interacts public bodies with citizens by means of personal computer, smartphone, tablet or smart TV, removing the antiquated bureaucracy that hinders any form of dialogue and that slows communication. Indeed, citizens can communicate with the intended office to report any issues just by clicking on the suitable link placed on the website. The system is simple: there is no need to register, but it is enough that citizens fill a form with their name, address and email and even attach files. Then, the form is dispatched to the relevant office and the person in charge will have to inform citizens about the progress of the job. All stats and interactions between public bodies and citizens can be published on the website.

The platform is organized in two different ways. The first feature pertains to public bodies and helps them to manage the workload, to identify lack of resources and to link directly public bodies with citizens. The second aspect, instead, is a reporting tool available for citizens.

The company would sign a commercial agreement with technical assistance, commercial agency agreement or a joint venture agreement in order to implement the service.

##### Advantages and Innovations

The app developed by the company innovates the communication way between citizens and public bodies, generating several advantages, such as:

- Creation of a direct link between citizens and public bodies
- Way for public bodies to manage workload and detect lack of resources
- Bureaucracy reduction and possibility for the citizens to communicate directly with the right public office, reporting issues
- Reporting tool for citizens
- Available stats about the interactions between public bodies and citizens

##### Stage of Development

Available for demonstration

## IPR Status

Trade Marks

---

## Keywords

---

### Technology

11003 Information and media, society  
11006 Citizens participation

### Market

01006005 Other communications (not elsewhere classified)  
02007007 Applications software  
02007022 Software services

### NACE

J.63.1.1 Data processing, hosting and related activities  
J.63.1.2 Web portals

---

**Open for EOI :** **Yes**

---

---

## Client

---

### Languages Spoken

English  
Italian

---

## Partner Sought

---

### Type and Role of Partner Sought

The type of partner sought is a company with IT knowledge who can implement the product/service, may develop new products or can be interested to buy the platform, in order to improve the relationships between the public bodies and the citizens.

### Type of Partnership Considered

Commercial agreement with technical assistance



Joint venture agreement

## Technology Offer

### App that makes easy the supplier choosing

#### Summary

*An Italian IT start-up established by young entrepreneurs, developed an app that helps consumers to choose suppliers more quickly and at the same time allows suppliers to find new clients. The company is looking for a partner operating in IT field, in order to sign a commercial agreement with technical assistance, commercial agency agreement or joint venture agreement.*

<b>Creation Date</b>	03 March 2016
<b>Expiration Date</b>	21 March 2017
<b>Reference</b>	TOIT20160303002

#### Details

##### Description

An Italian start-up working in IT field, developed an app that allows consumers to find suitable suppliers in less time than traditional methods.

Once selected a service, the user can choose a supplier from a list of over 90 company types, simply using a personal computer, smartphone, tablet or smart TV, read feedbacks, get quotes, assign a priority (urgent 18 h, standard 36 h or specific), confirm the location and attach files. The supplier choice may be carried out by price, safety, quality, feedback, speed and customer loyalty.

The platform is managed in two ways: the first one is dedicated to the users, that can upload their profile and data, manage files and documents and research suppliers. The second way, instead, is dedicated to the companies, that can upload details of their branches, establish the areas they can cover, manage the staff and track their productivity.

The company would sign a commercial agreement with technical assistance, commercial agency agreement or a joint venture agreement in order to implement the service.

##### Advantages and Innovations

The advantages of the service are the following:

- Consumers can choose suitable suppliers simply using a personal computer, smartphone, tablet or smart TV.
- Consumers save time in choosing because they can read feedbacks, get quotes and come to an agreement about the date and time of intervention required.
- Consumers can choose companies, according to the price, safety, quality, feedback, speed and customer loyalty.
- Consumers can assign a priority to intervention
- Suppliers can find new consumers, choose the areas that can cover, manage their staff and their productivity.

##### Stage of Development

Available for demonstration

## IPR Status

Trade Marks

---

## Keywords

---

### Technology

01004006	Environment Management Systems
11004	Technology, Society and Employment

### Market

01004008	Other data communications
02007002	Database and file management
02007015	Integrated software

### NACE

J.63.1.1	Data processing, hosting and related activities
J.63.1.2	Web portals

---

**Open for EOI :** **Yes**

---

---

## Client

---

### Languages Spoken

English  
Italian

---

## Partner Sought

---

### Type and Role of Partner Sought

The type of partner sought is a company with a strong knowledge of IT market, who can implement the product/service, may introduce it to their network, help growth and widen target market.

### Type of Partnership Considered

Commercial agreement with technical assistance

Joint venture agreement

## Technology Offer

# Machine learning for social networks: intelligent messaging for organisations

## Summary

*A Sweden-based start-up specialised in machine learning is developing a platform for accurate decision making when targeting members of a social network. The goal is to create smart self-learning solutions/apps and professional APIs/applications. They seek commercial partners larger than 100 employees/members on a global basis who would like to test their product and benefit from the technology under license and/or commercial agreement with technical assistance.*

**Creation Date** 26 February 2016  
**Expiration Date** 10 March 2017  
**Reference** TOSE20160226001

## Details

### Description

What they do: For people that need to find someone to help them in their organisation or community, the product is a virtual assistant that makes it easy to ask around. 70% of their customers think it takes too much time to ask around. The Swedish start-up combine artificial and human intelligence to solve this problem.

The team: One of co-founders has built a global media organisation that is active in 90 countries and has been selected as a World Economic Forum Young Global Leader. The other co-founder is a physicist who has developed products at a globally well-known technology company and helped make the desert green with the Sahara Forest Project.

The start-up are also cooperating with one of the highest ranked business incubators in Sweden, financed by the Swedish Government and the European Commission.

Innovations/USP: Their product intelligently identifies who is most likely to be able to help in your organisation or community. Their algorithm combines natural language processing, machine learning and human intelligence. You message the system that you're searching for someone or something, and the system finds the right person to help you. This system will be able to change the way individuals help each other.

This typically addresses professional markets where data crunching within a targeted area of expertise is primordial (legal, insurance, finance) but also customer support APIs, internal messaging apps, personal assistants, etc.

They offer machine learning/NLP software which are capable of reasoning, self-learning and decision making within an existing organisation's social network.

The company develops web apps and APIs. All these elements: NLP, Machine learning, Cognitive systems, apps/APIs can be used individually or integrated/combined to build intelligent, self-learning interactive applications for use within an organisation social network.

#### Key Features:

- AI engine for advanced decision making.
- Additionally full support for NLP analysis of incoming queries.
- Unsupervised/supervised learning.
- Focus on classification and decision tree optimisation for data within an organisation network.

The Swedish start-up is now looking for a commercial cooperation agreement with organisations of more than 100 members, to test its product and benefit from the technology. Operations in all sectors can benefit from their product as long knowledge sharing is important for the organisation. The Swedish start-up will provide technical assistance for integrating the system into the partner's organisation. During the test phase they will collect user feedback in order to make the system as efficient as possible, based on the partner organisation's needs. The test phase will be followed by a license deal for further use of the system.

#### Advantages and Innovations

For individual users, the product adds value by making it easy for them to:

- Connect (form a project team, locate internal or external contacts)
- Learn (find targeted help, get prompt answers to question)
- Build community cohesion (avoid spamming colleagues, ask around easily)

For organisations, the product adds value to:

- Human capital (higher employee utilisation, using untapped skills/resources)
- Management efficiency (build teams quickly, connect employees easily)
- Analytics (track KPI performance)

By using the product, the individual user's knowledge base grows and their network builds over time. For businesses, the product results in intensifying internal activity and provides increasingly valuable analytics relating to productivity and performance.

#### Stage of Development

Prototype available for demonstration

#### IPR Status

Secret Know-how, Copyright

## Keywords

#### Technology

01003003	Artificial Intelligence (AI)
01003013	Information Technology/Informatics
01003015	Knowledge Management, Process Management
11003	Information and media, society
11004	Technology, Society and Employment

#### Market

01004001	Local area networks
----------	---------------------

01004003	Communications processors/network management
01004008	Other data communications
01006004	Communications services
02006009	Other computer services

## NACE

J.63.1.1	Data processing, hosting and related activities
M.74.9.0	Other professional, scientific and technical activities n.e.c.
N.82.9.9	Other business support service activities n.e.c.
S.94.1.1	Activities of business and employers membership organisations
S.94.1.2	Activities of professional membership organisations

---

**Open for EOI :**    **Yes**

---

---

## Client

---

### Languages Spoken

English  
Swedish  
French  
Spanish

---

## Partner Sought

---

### Type and Role of Partner Sought

The Swedish start-up seeks companies, organisations or associations in knowledge, development and research intensive sectors with more than 100 employees or members who would like to test their product and benefit from the technology. This followed by licensing deal for further use of the product.

### Type of Partnership Considered

License agreement  
Commercial agreement with technical assistance

## Technology Offer

### New type of website content management system

#### Summary

*The Hungarian company provides facilities adopting and introducing new aspects the web marketing services. Their own development is a new type of content management framework system, which allows the non-technical users to make changes to a website with little training. The company is looking for partners in Austria, Germany, Netherlands and Switzerland in the field of information technology (IT) sector, which can help adapt the technology, offering license agreement.*

**Creation Date** 14 January 2016  
**Expiration Date** 08 April 2017  
**Reference** TOHU20160106001

#### Details

##### Description

The Hungarian company started its operation in 1999, recognizing the possibilities within the spreading of the internet, in divisions of advertising. Company provided facilities for adopting and introducing new aspects and more effective informatics, internet and web marketing services. The activity mainly focuses on the websites, video and portal systems, webshops, supported by content-provided solutions.

Their development of their product, the new type of content-managing frame system, has been speeded up recently, its usage became more adaptable and its introduction became more effective. Their own new content management system, allows non-technical users to make changes to a website with little training. Administration is done through a cross browser-based interface.

In the new system the uses Uniform Resource Locator (URL)-rewrite technique is a dynamic webpage compare to the static URL systems. The Content Management System (CMS) allows users to rename the webpage URL, which is an important fact of the Search Engine Optimized (SEO) system.

User could have total control over the browser title bar, the online meta tags, meta keywords and description. There were developed Google Analytic integration to each webpage, so it can access immediately the statistics for the currently edited page.

With the e-mail based newsletter system user can send hundreds of rich text formatted HTML e-mails to the visitors or customers and can track the efficiency of e-mail campaigns in Google Analytics.

The aspect of search engines is different from the visitors, but company forced upon to understand their way of thinking, because the visitors will be sent to their website by the search engine, therefore it is not a negligible viewpoint how the customer can favour them. Certainly, every developer company has its own recipe, by what they are able to lead the search engine through the customers' websites in the easiest way.



These principles have to be supervised from time to time, because Google, as the leader of the market, changes its practice in order to filter out the freeloaders and to prefer those websites and portals supporting the content development and Internet philosophy.

The new system uses a database to store content, metadata, or artifacts that might be needed by the system and furthermore own caching method to serve the contents. The system runs on different web and database servers as well.

A license based CMS's source code and know-how in most cases is owned by the authors, and it is handled in a closed system. The source code can be never accessed by the customer or other persons. This reduces security risks.

The company is looking for partners who can deal with similar technology in the similar quality and adapt the technology in their country. The company is offering a license to use the licensed new type of CMS system in return for a fee or share of royalties.

## Advantages and Innovations

The content management system allows for the non-technical users to make changes to a website with little training. Administration is done through a cross browser-based interface. The system uses a database to store content, its own caching method to serve the contents and runs on different web and database servers.

The most important value gives this self-confident operation as well as the base of the strategic partnership developed with their partners.

The CMS systems use a database to store content, metadata, or artifacts that might be needed by the system. A presentation layer displays the content to Web-site visitors based on a set of templates: a set of HyperText Markup Language (HTML) and Cascading Style Sheets (CSS), JavaScript and other files, this is one of the most advantage compares to other prevailing technologies.

This solution has an innovative character, easy to use interface, with powerful rich-text editor and optimized mathematical function collection techniques, so a number of useful functions and effects can be added by using their website.

The further advantages are the complete user and group management, the picture gallery support, the document storage with user permissions, integrated webshop system and newsletter system with different mailing lists and web based sign-up. Also important are the blog editing functions, comments and ratings can be assumed for every page.

Improving the range of the services is continuous and the partners can connect to the new ItWorx CMS platforms after its introduction by monthly-fee packages.

## Stage of Development

Already on the market

## IPR Status

Exclusive Rights

---

## Keywords

### Technology

01003010	Databases, Database Management, Data Mining
01003011	Electronic Commerce, Electronic Payment & Signature
01003025	Internet of Things
02003005	Information processing & Systems, Workflow

11008 Creative services

## Market

02007002	Database and file management
02007004	Program development tools/languages
02007015	Integrated software
02007023	Web semantics
02007028	Other software related

## NACE

J.62.0.9	Other information technology and computer service activities
----------	--

---

**Open for EOI :** **Yes**

---

---

## Client

---

### Languages Spoken

English  
Hungarian  
Dutch

---

## Partner Sought

---

### Type and Role of Partner Sought

Type of partner sought: The potential partners should be reliable and professional IT industrial companies, in the field of content management systems, software, web applications, creating and managing HTML contents.

Specific area of activity of the partner: The ideal partner producing/manufacturing similar types of products.

Task to be performed: The company would like to cooperate other web developer companies, which have experiences in license based CMS's source code techniques.

### Type and Size of Partner Sought

SME 11-50

### Type of Partnership Considered

License agreement

## Technology Request

# Request for active camera lens cleaning system for cameras mounted on automobiles.

## Summary

*A Korean company, specialized in developing and manufacturing high-tech parts, is looking for an active camera lens cleaning system for automobile exterior cameras. The conventional way which uses water for cleaning is not appropriate for exterior cameras, so they want to find new ways to clean the camera lens. They are looking for a partner available for research cooperation agreement or technical cooperation agreement.*

**Creation Date** 08 April 2016  
**Expiration Date** 11 April 2017  
**Reference** TRKR20160408001

## Details

### Description

A Korean company, a manufacturer of high-tech parts, has an idea to develop cleaning system for automotive exterior camera.

Recently, camera technology is applied in the car industry more quickly than before. Many camera technologies are already applied to the backward and forward of the vehicles for user's convenience.

To replace side view mirrors with exterior cameras, it is essential to keep the camera clean. The conventional way which uses water is too costly and cannot clean the camera perfectly. The new cleaning system can be applied near camera as a module. So, combination of camera and compact sized cleaning kit is requested. And it would be good to have auto cleaning system and pollution recognition algorithm. Pollution prevention coating (antistatic) or air compressor and washer nozzle would be welcomed.

The company is looking for a partner who provides an advanced technology mentioned above and does research and development together to create a completed module with cleaning system.

They prefer a company or a research institute which has references in cleaning system for electronic devices such as cameras or micro parts. No preference for countries.

### Technical Specification or Expertise Sought

Must have

1. Combination of camera and cleaning kit
2. Compact size of cleaning kit

Nice to have

1. Auto cleaning system

2. Pollution recognition algorithm  
Favorable
1. Pollution prevention coating (antistatic)
2. Air compressor and washer nozzle

---

## Keywords

---

### Technology

02002001	Cleaning (sandblasting, brushing)
03001001	Cleaning Technology
03003	Apparatus Engineering
10001002	Assessment of Environmental Risk and Impact
11005	Infrastructures for social sciences and humanities

### Market

07004008	Other consumer products
08002002	Industrial measurement and sensing equipment
08003001	Machine tools, other metal working equipment (excl. numeric control)
08003007	Other industrial equipment and machinery
09001003	Leasing of railcars, buses, cars, etc.

### NACE

C.26.2.0	Manufacture of computers and peripheral equipment
C.26.3.0	Manufacture of communication equipment
C.26.4.0	Manufacture of consumer electronics
C.26.6.0	Manufacture of irradiation, electromedical and electrotherapeutic equipment
C.26.7.0	Manufacture of optical instruments and photographic equipment

---

**Open for EOI :** **Yes**

---

---

## Client

---

### Languages Spoken

English

## Partner Sought

---

### Type and Role of Partner Sought

Type of partner sought: company, research institute, university

Specific area of activity of the partner: optics technology etc.

Task to be performed: research cooperation or technical cooperation on active camera lens cleaning system for automobile.

### Type of Partnership Considered

Technical cooperation agreement

Research cooperation agreement

## Technology Request

# A tool for solving problems in the credit assessment of the banks

## Summary

Researchers from Lithuanian university has developed a tool for solving problems in the credit assessment of the commercial banks, using statistical models for classifying the loan seekers. Partners - commercial banks. Task - to implement tool to their system.

**Creation Date** 04 April 2016  
**Expiration Date** 04 April 2017  
**Reference** TRLT20160404002

## Details

### Description

Researchers are looking for commercial banks, which have the internal credit risk assessment model development challenges. The developed model will be described as the process of credit risk assessment scheme, which can be realized by programming special software. Quantification of the probability of default loan applicants and the internal rating system allows improving the processes related to credit risk management in commercial banks and creating a more efficient credit risk management policy.

### Technical Specification or Expertise Sought

Internal credit risk assessment model development.

### Stage of Development

Proposal under development

## Keywords

### Technology

11001 Socio-economic models, economic aspects

### Market

09002003 Banking

### NACE

M.72.2.0 Research and experimental development on social sciences and humanities

---

**Open for EOI :**    **Yes**

---

---

## Client

---

### Languages Spoken

English

---

## Partner Sought

---

### Type and Role of Partner Sought

Commercial banks as partners are expected. The tasks to be performed by the partner sought development of the tool and implementation to their system.

### Type of Partnership Considered

Services agreement  
Technical cooperation agreement

## Technology Request

---

### Tool for increasing organization effectiveness

---

#### Summary

---

*Lithuanian University developed a tool which can analyse organisations effectiveness issues from the perspective of organizational culture, organizational citizenship behaviour and employee perception of organization and top management. Tool would positively affect company system operations, productivity, leadership actions, and sustainable performance. University is looking partners from businesses for cooperation to adapt this tool to their organisation.*

**Creation Date**            01 April 2016  
**Expiration Date**        04 April 2017  
**Reference**                TRLT20160401001

---

#### Details

---

##### Description

The research tool aims to disclose weak points in prevailing organizational culture. Consequently, that would suggest the guidelines for organization improvement in organizational citizenship management, employee relations and organizational citizenship behaviour that in turn, would positively affect company system operations, productivity, leadership actions, and sustainable performance. Results of the survey can offer the guidelines for the top management in improvement performance drivers as follows:

1. Culture (can help achieve more transparency, trust, information sharing, increased participation, innovation, learning and collaborative culture)
2. Relationships (can improve the quality and quantity of relationships, access to leaders is facilitated and employees can have their voice heard at the top level)
3. Individuals (empowering employees to take responsibility and decisions for which they are most competent can have far-reaching, positive consequences)
4. Strategy (When more people are contributing to strategy development, revision and delivery, this can have wide implications for its implementation as well as engagement and productivity)

##### Technical Specification or Expertise Sought

University is looking for partners from businesses who needs a tool for disclosing weak points in prevailing organizational culture.

##### Stage of Development

Available for demonstration

---

#### Keywords

---

#### Technology



11008

Creative services

## Market

09003005

Consulting services

## NACE

M.72.2.0

Research and experimental development on social sciences and humanities

---

**Open for EOI :**    **Yes**

---

---

## Client

---

### Languages Spoken

English

---

---

## Partner Sought

---

### Type and Role of Partner Sought

The type of Partner Sought - industry, business.

The tasks to be performed by the partner sought - implement research tool to their organization.

### Type of Partnership Considered

Services agreement

Commercial agreement with technical assistance

Research cooperation agreement