



Boletín nº 170 de Oportunidades de Cooperación:

**Nanotecnologías, Tecnologías de Producción,
Construcción, Materiales, Transporte**

(Noviembre 2018)

NANOTECNOLOGÍAS

Technology Requests

- Hydrophobic nanoparticles technology (anti-fouling paints)

Research and Development Requests

- H2020-DT-NMBP-03-2019: Companies and R&D centres related to (nano) coatings.

TECNOLOGÍAS DE PRODUCCIÓN

Technology Requests

- Ultrasonic moulding technology sought for shopping bag manufacturing
- A Serbian company specialized in outdoor/indoor signage seeks partners for technical cooperation in the area of technology and know-how of LED 3D...
- A Chinese company is looking for active control technology of error in high-speed accessory gear transmission
- A Chinese company is looking for design of aviation cylindrical gear modification with high speed, thin spokes, small modulus
- Searching for partners to manufacture halogen free flame retardants for plastics.
- A Chinese company is looking for the technology of intelligent yawing brake system of environmental friendly wind generator set
- Inland container tracking solutions sought by multinational shipping company.

Research and Development Requests

- H2020 DT-FOF-08-2019 - Industrial partners sought for developing pilot lines for modular factories in automotive, naval and defence sectors.

CONSTRUCCIÓN

Technology Offers

- Lithuanian SME is looking for a new low noise lift engine technology
- A Chinese company is looking for active control technology of error in high-speed accessory gear transmission
- A Chinese company is looking for design of aviation cylindrical gear modification with high speed, thin spokes, small modulus

MATERIALES

Technology Requests

- Shaft for small positioner made of advanced materials required
- Searching for partners to manufacture halogen free flame retardants for plastics.
- Hydrophobic nanoparticles technology (anti-fouling paints)

Research and Development Requests

- Partner sought to submit FTI proposal to introduce on the market rubber compound with devulcanised rubber.

TRANSPORTE

Technology Requests

- Leading Dutch service provider in mail and logistics is looking for innovative SMEs who have solutions to improve the process of loading and unloading...
- Spanish city council is looking for smart mobility solutions under research, technical or commercial agreement
- Motor controller and charger sought for a new light and environmentally friendly aircraft



1. NANOTECNOLOGÍA

Technology Request

Hydrophobic nanoparticles technology (anti-fouling paints)

Summary

A company based in Luxembourg is looking for a partner able to provide nanoparticles technology to be added to paints, to prevent the adherence of organisms in aquatic environment. The company is looking for research or technical cooperation agreement.

Creation Date	11 October 2018
Last Update	08 November 2018
Expiration Date	15 November 2019
Reference	TRLU20181005001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/9e921cd2-72dd-430f-9d92-1f59282b9cac

Details

Description

Traditional antifouling technologies are based on the controlled release of biocides (toxic heavy metals) to prevent fouling organisms from adhering to the hull of a ship. In contact with water, the top layer of antifouling coating is dissolved and the biocides thus offer protection from fouling organisms.

These paint systems are outdated and will be banned in the future because of their negative impact on marine ecosystems.

The company is therefore looking for new and innovative non-toxic additives (thus NOT containing biocides neither heavy metals or substances harmful to the environment).

The company is looking for research or technical cooperation agreements, with a partner able to provide such materials.

Technical Specification or Expertise Sought

Companies able to offer specific materials (silicone epoxy resin or miscible solvent, binder or additive) to be added to painting allowing the no adherence of biomasses.

The most important point is that the proposed solution respects the maritime environment (no release of harmful substances, non toxic material). The final solution adopted must be validated by tests and trials.

Stage of Development

Available for demonstration

Keywords

Technology

02007020	Biobased materials
02007021	Carbon nanotubes
02007024	Nanomaterials

Market

08001019	Speciality/performance chemicals
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Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Relevant Sector Groups

Materials

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
German
French

Client Country

Luxembourg

Partner Sought

Type and Role of Partner Sought

Type of partner: start-up or company

Role of the partner: provide nanoparticles and co-develop the final formula that demonstrate the performance of anti-fouling

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

Research & Development Request

[EUREKA/Eurostars2] A Flexible substrate material using conductive Silver nanowire ink

Summary

The SME from South Korea provides semiconductor materials and OLED materials, printed electronic materials. they have flexible substrate technology using their own developed silver nanowires and can mass-produce substrates based on roll-to-roll pilot facilities. They are looking for partners to develop products using the silver nanowire ink and board with European partners to submit a proposal for Eureka or Eurostar2 program.

Creation Date	08 October 2018
Last Update	10 October 2018
Expiration Date	01 August 2019
Reference	RDKR20181008002
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/4d234650-2444-4e5a-afb2-72933659f539

Details

Description

The SME from South Korea provides semiconductor materials and OLED materials, printed electronic materials. they have flexible substrate technology using own developed silver nanowires and can mass-produce substrates based on roll-to-roll pilot facilities. They are currently developing Flexible in Rigid electronic products.

Recently, interest in flexible displays and devices has increased, and silver nanowires are attracting attention as transparent electrode materials for replacing conventional ITO electrodes. Silver nanowires are capable of forming electrodes by a printing method that does not require a vacuum process, and research and development are being actively carried out as a cost-effective and flexible electrode material.

Based on production technology of silver nanowires, they have a roll-to-roll process technology applicable to mass production of silver nanowire ink and flexible substrates and are looking for partners to develop products using silver nanowire ink and board with European partners to submit a proposal for Eureka or Eurostar2 program.

Deadline for EOI: 1 August 2019
Deadline for Call: September 2019
Project duration: 104 weeks

Advantages and Innovations

Ref: RDKR20181008002

- Silver nanowire has reduced the process time by 20% compared to existing companies and increased the yield through mass synthesis to secure price competitiveness.
- The irregular structure of the existing silver nanowire was reduced to a roughness of 2 nm or less by applying a delamination process.
- Possible to insert the optical collecting function and the light extracting function into the inside of the substrate.

Stage of Development

Already on the market

IPR Status

Patents granted

Keywords

Technology

01002007 Nanotechnologies related to electronics & microelectronics

Market

03001 Electronic Components
09004007 Printing and binding

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

Client Country

South Korea

Partner Sought

Type and Role of Partner Sought

- Type of partner sought:
SME and Larger Company, Research Institute, University
- Specific area of activity of the partner:
Nanotechnologies related to Electronics and Microelectronics
- Task to be performed:
Research and development cooperation

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

Eureka

Call title and identifier

Eurostars2

Coordinator Required

No

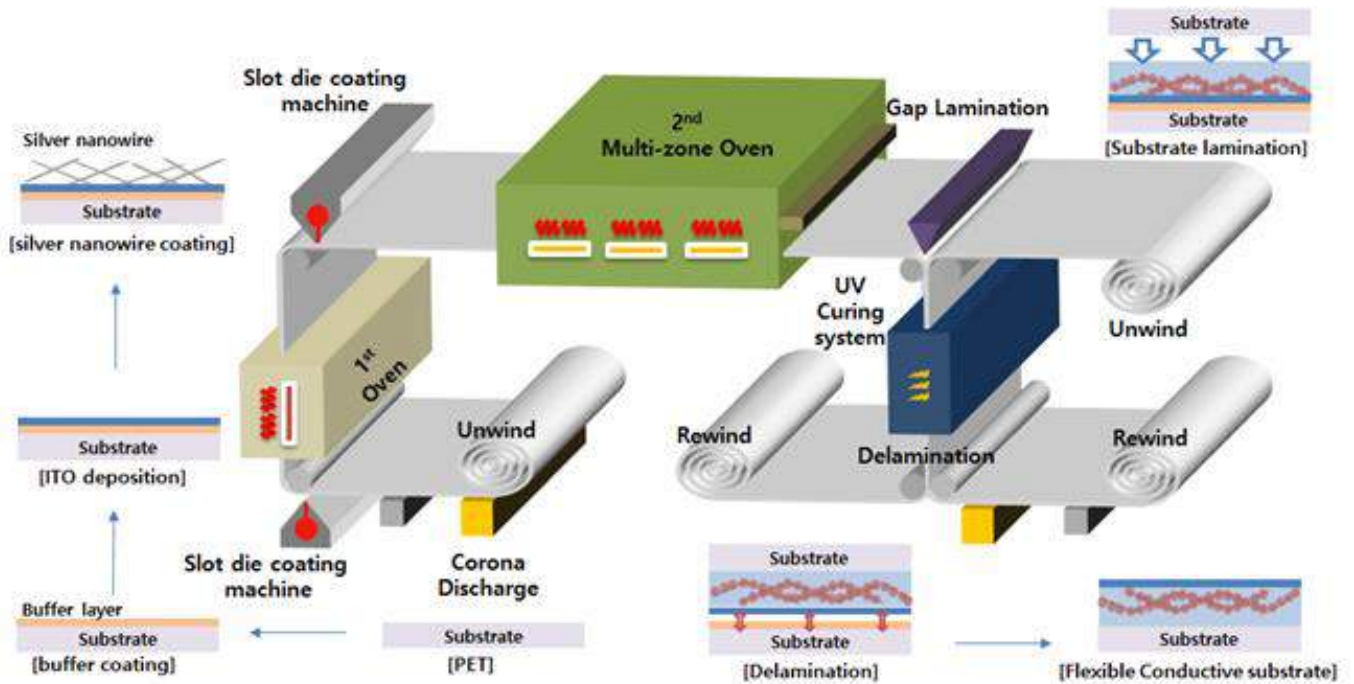
Deadline for EOI

01 Aug 2019

Deadline of the Call

14 Sep 2019

Attachments





2.

***PRODUCCIÓN
INDUSTRIAL***

Technology Request

A Chinese company is looking for the technology of intelligent yawing brake system of environmental friendly wind generator set

Summary

A Chinese large-scale wind power equipment company is looking for the technology of intelligent yawing brake system of environmental friendly wind generator set. They want to cooperate with partners through research cooperation agreement and technical cooperation agreement.

Creation Date	19 October 2018
Last Update	07 November 2018
Expiration Date	08 November 2019
Reference	TRCN20181019003
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/7c52c8b4-0447-44ed-8fa9-cb4359a98010

Details

Description

The company which established in 2006, is located in Xiangtan City, Hunan Province.

The company is specialized in manufacturing large-scale wind power equipment. It is mainly engaged in the design, manufacture, sales and service of the complete set and components of megawatt wind power generator sets, with annual capacity of 1,000 megawatt wind power generator sets.

They are looking for the technology of intelligent yawing brake system of environmental friendly wind generator set.

The company wants to make theoretical research on the sealing failure and leakage mechanism of wind power hydraulic braking system, friction noise mechanism of friction plate and brake disc, the formula selection method of friction plate, the prediction theory of wear life of friction plate and wear mechanism of friction plate.

They want to cooperate with partners through research cooperation agreement and technical cooperation agreement.

Technical Specification or Expertise Sought

- (1) Study on the optimal matching of intelligent yaw drive and braking system dynamic parameters based on the operating characteristics of the whole machine;
- (2) anti-fatigue optimization and design of brake cylinder structure based on finite element analysis;
- (3) reliability design and renovation of brake seal structure based on leakage prevention;
- (4) Study on precision manufacturing of hydraulic brake cylinder and surface treatment technology of piston;
- (5) Research and renovation of friction plate formulation technology based on low noise and high stable friction coefficient;
- (6) Design and development of the friction and wear test equipment for intelligent yawing brake system;
- (7) Study on the method of friction and wear test of intelligent yaw braking system;
- (8) Study and improvement of friction and wear characteristics of hydraulic brake friction plate based on actual working condition;
- (9) Modification of the tolerance test of hydraulic brake;
- (10) Through the analysis of big data, optimize of intelligent yaw braking process control.
- (11) Research and improvement of advanced environment perception and self-recognition capability of wind generator sets.
- (12) Research and innovation of intelligent yaw control system with self-learning and adaptive ability;
- (13) Research and transformation of intelligent yawing technology of wind power generator under special environmental conditions;
- (14) Transformation of intelligent control strategy for yaw system under complex environment.

Keywords

Technology

03003 Apparatus Engineering

Market

06003003 Wind energy

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry >500

Year Established

2006

Turnover

100 - 250M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Chinese

Client Country

China

Partner Sought

Type and Role of Partner Sought

The company is looking for R&D institution or company involved in the technology of intelligent yawing brake system of environmental friendly wind generator set. The company is interested in research cooperation and technical cooperation.

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement

Technology Request

A Chinese company is looking for design of aviation cylindrical gear modification with high speed, thin spokes, small modulus

Summary

A Chinese engine research institute is looking for design of aviation cylindrical gear modification with high speed, thin spokes, small modulus. They want to cooperate with partners through research cooperation agreement and technical cooperation agreement.

Creation Date	19 October 2018
Last Update	07 November 2018
Expiration Date	08 November 2019
Reference	TRCN20181019006
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/6388599a-01fe-4a3c-8f65-a4574860a4b1

Details

Description

The institute which established in 1968, is located in Zhuzhou City, Hunan Province. It is the only research and development base of small and medium sized aero engine, ground gas turbine and helicopter transmission system.

They are looking for design of aviation cylindrical gear modification with high speed, thin spokes, small modulus.
They want to cooperate with partners through research cooperation agreement and technical cooperation agreement.

The technology should include:

1. Modeling and analysis on high-speed, thin spokes and small modulus aviation cylindrical gear with considerations of gear modification, installation error, manufacturing error, gear tooth gap and support stiffness;
2. Analysis and study on the influence that gear tooth modification parameters make on high-speed, thin spokes and small-modulus aviation cylindrical gears;
3. Dynamic analysis and modeling of high-speed, thin spokes and small modulus aviation cylindrical gear with considerations of gear modification, installation error, manufacturing error, gear tooth gap and support stiffness;
4. Analysis and study on the influence of dynamic performance that gear tooth modification parameters make on high-speed, thin spokes and small-modulus aviation cylindrical gears;
5. Software development for high speed, thin spokes and small modulus aviation cylindrical

gears.

Technical Specification or Expertise Sought

Analyze the influence of gear engagement performance that gear tooth modification parameters make on high-speed, thin spokes and small-modulus aviation cylindrical gears, and master preliminary modification design. After the modification, the distribution coefficient of load and dynamic meshing force of the gears should reduce by over 10% compared with that before modification, and develop the corresponding modification design software.

Keywords

Technology

02006006 Construction engineering (design, simulation)
03003 Apparatus Engineering

Market

08003006 Power transmission equipment (including generators & motors)

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

1968

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Chinese

Client Country

China

Partner Sought

Type and Role of Partner Sought

The company is looking for R&D institution or company involved in design of aviation cylindrical gear modification with high speed, thin spokes, small modulus. The company is interested in research cooperation and technical cooperation.

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement

Technology Request

A Chinese company is looking for active control technology of error in high-speed accessory gear transmission

Summary

A Chinese engine research institute is looking for active control technology of error in high-speed accessory gear transmission. They want to cooperate with partners through research cooperation agreement and technical cooperation agreement.

Creation Date	19 October 2018
Last Update	07 November 2018
Expiration Date	08 November 2019
Reference	TRCN20181019007
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/5b86b9a3-2618-4670-bbdb-77139439138f

Details

Description

The institute which established in 1968, is located in Zhuzhou City, Hunan Province. It is the only research and development base of small and medium sized aero engine, ground gas turbine and helicopter transmission system.

They are looking for active control technology of error in high-speed accessory gear transmission.
They want to cooperate with partners through research cooperation agreement and technical cooperation agreement.

The technology should include:

1. Calculation and analysis method of transmission error in high-speed accessory gear transmission;
2. Analysis of influence of gear surface parameters, flange thickness, spoke plate thickness and support stiffness on error in high-speed accessory gear transmission;
3. optimization design of gear tooth surface, wheel structure and support stiffness based on least transmission error of high-speed accessory gear transmission;
4. Research on the influence of manufacturing error on of high-speed accessory gear transmission;
5. Design and software development of active control of error in high-speed accessory gear transmission

Technical Specification or Expertise Sought

Analyze the influence of gear surface parameters, flange thickness, spoke plate thickness and support stiffness on transmission error of high-speed accessory transmission gear, and master the optimization design of gear tooth surface, wheel structure and support stiffness. After the optimization, the error of gear transmission should reduce by over 10%, and develop corresponding design software.

Keywords

Technology

02006005 Construction maintenance and monitoring methods & equipment
03003 Apparatus Engineering

Market

08003006 Power transmission equipment (including generators & motors)

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

Ref: TRCN20181019007

1968

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Chinese

Client Country

China

Partner Sought

Type and Role of Partner Sought

The company is looking for R&D institution or company involved in active control technology of error in high-speed accessory gear transmission. The company is interested in research cooperation and technical cooperation.

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement

Technology Request

A Serbian company specialized in outdoor/indoor signage seeks partners for technical cooperation in the area of technology and know-how of LED 3D signs.

Summary

A Serbian company specialized in design, engineering and manufacturing of external and internal signage, signs and promotional materials is looking for new partners who have the capacity for know-how and technology transfer of LED 3D signs.

Creation Date	16 October 2018
Last Update	02 November 2018
Expiration Date	03 November 2019
Reference	TRRS20181016001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/9581f3c8-8167-4888-be1d-5532a1346ad6

Details

Description

The company is a house of creative design. They offer design, engineering, manufacturing and consulting services mostly in the signage industry. They produce and design the signs, symbols and other elements of the visual communication.

They have a very diversified production program that can be classified into three key segments:

- Architectural marking (labeling).
- Industrial marking: production of marking tools (tools for labeling) from steel, brass, wood, rubber, leather, cardboard, plastic and other materials. Production of plates-designations of the name and characteristics of products of various shapes and of different materials.
- Promotional branding: provision of advertising services, graphics preparation services, etc.

In the manufacturing of the advertisements, the company uses high-quality digital printing of large format that can be applied to various materials in all occasions and conditions.

The company's portfolio includes realizations of signage for retails, hotels, business, public offices, etc.

They are interested to make an agreement with partners that can introduce them the LED technology of 3D signs for the signage industry, in the form of technical cooperation agreement or any other agreement type.

Technical Specification or Expertise Sought

- The company is looking for partners with the experience in the implementing LED technology in the signage industry.
- LED technology in the production of 3D signs in the form of illuminated letters and characters.

IPR Status

Secret Know-how

Keywords

Technology

02002007

Joining techniques (riveting, screw driving, gluing)

Market

03004003

Other electronics related equipment

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Relevant Sector Groups

Women entrepreneurship

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

1893

Turnover

<1M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

Client Country

Serbia

Partner Sought

Type and Role of Partner Sought

The potential partner should be able to introduce the technology of 3D LED signs: from the recommendation of mandatory personnel potential, the necessary equipment for production (potential suppliers of equipment), to the supervision of the production of the first products.

The potential partner should have knowledge in the field, broad experience (confirmed by references) in using modern technologies (3D signs LED technology) in the production process.

Type and Size of Partner Sought

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

Type of Partnership Considered

Technical cooperation agreement

Technology Request

Ultrasonic moulding technology sought for shopping bag manufacturing

Summary

A Lithuanian SME, specialized in shopping bag manufacturing, seeks a new technology to expand their business. The currently used technology allows the company to produce large quantities of shopping bags from unwoven materials made from raw plastic. The company is looking for an ultrasonic molding technology allowing to combine seams of an unwoven material made from recycled PET. The company seeks partners for a commercial agreement with technical assistance.

Creation Date	15 October 2018
Last Update	18 October 2018
Expiration Date	17 January 2019
Reference	TRLT20181015001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/94f16184-819b-404b-ba20-0d06bae44e7f

Details

Description

Established in 2013, the Lithuanian SME produces shopping bags from unwoven raw plastics material. The company is aiming to expand their market share by introducing a new product line - shopping bags made of unwoven materials made from recycled PET. The currently used technology cannot successfully mold bags seams, therefore the company is looking for a new technology solution which would be able to create seams and form a strong bond between two pieces of non-woven materials made from recycled PET. The company is looking for a developed technology, which could be adapted to an existing production line technology. The partnership would be based on a commercial agreement with technical assistance, where the supplier would adapt the technology to the hardware that is currently being used. In addition it would be expected that the partner would provide a sufficient technology knowledge transfer or lasting technical support assuring the functionality.

Technical Specification or Expertise Sought

Technology must use an ultrasonic heat method, that would be installed in several different parts of the production line.

Stage of Development

Available for demonstration

Keywords

Technology

02002013 Moulding, injection moulding, sintering

Market

09004006 Packing products and systems

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry >500

Year Established

2013

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

Ref: TRLT20181015001

English
Russian
Lithuanian

Client Country

Lithuania

Partner Sought

Type and Role of Partner Sought

Commercial agreement with technical assistance partner would have a fully developed technology, which can be adapted to an existing production line and provide and installation and further support service. Companies, who have modeled machinery with appropriate technology would also be considered for partnership providing this would be financially viable option.

Type and Size of Partner Sought

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

Type of Partnership Considered

Commercial agreement with technical assistance

Technology Request

Searching for partners to manufacture halogen free flame retardants for plastics.

Summary

A Swedish SME active within the polymer chemistry sector has developed halogen free flame retardants (HFFR) for plastics, which provide fire safety without using toxic chemicals. They are looking for international partners for technical cooperation and manufacturing agreement. The manufacturer should be a specialised production company focused within compounding or masterbatch production within thermoplastics and/or polyolefin materials

Creation Date	04 October 2018
Last Update	22 October 2018
Expiration Date	23 October 2019
Reference	TRSE20180418001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/02b104e6-a9d9-4060-ac3b-bdfcaf9822b7

Details

Description

A Swedish company has developed a green flame retardant system, based on functional polymers, for polyolefin plastics. The green flame retardant system is delivered as a synergist, masterbatch and compound. It is completely antimony- and halogen- free and is based on novel polymers that work in synergy with halogen-free flame retardants. The company has significant formulation experience within the field. The company has extensive lab facilities as well as one pilot and one production line for manufacturing of its compounds and customer development. The technology used is twin screw extrusion >40 L/D with side feeding and several gravimetric dosing units.

They are looking for international partners for technical cooperation and manufacturing agreement. The company should be a specialised production company focused within compounding or masterbatch production within thermoplastics and/or polyolefin materials (compounding, masterbatch production, extrusion of polymeric materials/ granules) and with capacity/knowhow/experience of producing complex formulations.

Technical Specification or Expertise Sought

Target company industry expertise:

- Compounding or masterbatch production within thermoplastics and/or polyolefin materials (compounding, masterbatch production, extrusion of polymeric materials/ granules).
- Single or twin screw extruder or co-kneader technology. Preferably focused on highly filled products.

- Side feeders and several gravimetric dosing possibilities on their lines.
- Capacity/knowhow/experience of producing complex formulations.
- The company should be well versed in production/engineering aspects of plastics production.
- Specialised with customised solutions and well managed.

Stage of Development

Already on the market

IPR Status

Patents granted

Keywords

Technology

02002013	Moulding, injection moulding, sintering
02002014	Extrusion
02007002	Building materials
02007014	Plastics, Polymers
10001003	Fire Safety Technology

Market

08001001	Plastic fabricators
08001005	Other fabricated plastics
08001009	Speciality/performance materials: producers and fabricators
08001018	Polymer (plastics) materials

NACE

C.20.5.9	Manufacture of other chemical products n.e.c.
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Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Relevant Sector Groups

Materials

Restrict Dissemination to Specific Countries

Belgium, Denmark, Estonia, Finland, Germany, Iceland, Latvia,
Lithuania, Luxembourg, Netherlands, Norway, Poland, Sweden,

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2010

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
Swedish
German

Client Country

Sweden

Partner Sought

Type and Role of Partner Sought

Type of partners sought: Industry

Specific area of activity of the partner:

- Manufacturing expertise: technical compounding or masterbatch production within thermoplastics and/or polyolefin materials.

Tasks to be performed:

- Manufacturing: Production partner that can produce growing volumes of the product.

Type and Size of Partner Sought

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

Ref: TRSE20180418001

Type of Partnership Considered

Manufacturing agreement
Technical cooperation agreement

Technology Request

Inland container tracking solutions sought by multinational shipping company.

Summary

A multinational shipping enterprise with a base in the Netherlands wants to inform its clients about location and estimated time of arrival of their containers. Therefore it is looking for partners with novel approaches to track containers before and after sea transport without adding an extra device. It aims to set up a cooperative pilot project to show the potential of the technology within the framework of a services agreement. This technology request is part of an open innovation challenge.

Creation Date	08 October 2018
Last Update	12 October 2018
Expiration Date	13 October 2019
Reference	TRNL20181005001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/bd7948e4-0cfd-4ac5-8ee9-d2db85ac57c2

Details

Description

The multinational shipping company provides container transport worldwide. The transport of containers consists of transport at sea and inland transport to and from the ports. The inland transport is executed by contractors or subcontractors. With processes getting more time critical in the economy there is a need for information about the location and estimated time of arrival of the container. At the moment this information is only available with help of wireless devices working on batteries that are applied on e.g. reefer containers. Since this is an expensive and vulnerable solution the shipping company is looking for solutions that do not need this. And with nowadays a lot of technologies becoming available in the field of e.g. truck tracking, traffic management, fleet management etc. new smart solutions could be possible. Therefore the company is looking for partners that can help develop new ways of inland container tracking so the customer can be informed about the location and estimated time of arrival of the container. The company is open for cooperation with a broad spectrum of partners such as SME's, R&D institutes and universities, preferably within the framework of a services agreement.

This technology request is an innovation challenge that is published on an open innovation platform. If interest in cooperation with this firm is expressed, the potential partner will be guided towards this open innovation platform on which he can get in touch with the company via a chat facility. Mind that posts on this platform are not confidential. Besides open discussion on the platform, sharing of confidential information will be made possible on demand. After closing of the open innovation platform on November 23rd, the corporate company will make a selection of

the organizations that have been active in the chat for further contact. Expressions of interest that are made after November 23rd will be handled as usual in the Network.

Technical Specification or Expertise Sought

- Logistics
- Cargo and container tracking
- ICT related to Geographical Information Systems (GIS), route planning, parcel delivery
- ICT related to truck, inland shipping, train
- Mobile technology, terminal technology
- Internet of Things
- Truck data technology, boardcomputers, truck navigation
- Knowledge of developments in sea container transport

Keywords

Technology

01003012	Imaging, Image Processing, Pattern Recognition
01004003	Applications for Transport and Logistics
01004007	GIS Geographical Information Systems
02003001	Process automation

Market

09001002	Trucking
09001006	Airfield and other transportation services
09001007	Other transportation

NACE

H.49.2.0	Freight rail transport
H.49.4.1	Freight transport by road
H.50.2.0	Sea and coastal freight water transport
H.50.4.0	Inland freight water transport

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Relevant Sector Groups

Maritime Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry >500 MNE

Year Established

1904

Turnover

50 - 100M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

Netherlands

Partner Sought

Type and Role of Partner Sought

Type of partner: company, university or research organization

Area of activity: development, (applied) research, consultancy in the field of ICT, GIS, fleet management, logistics etc.

Task to be performed: set up a cooperative pilot project to show the potential and the applicability of new container tracking concepts for worldwide container transport.

Type of Partnership Considered

Services agreement

Research & Development Request

H2020 DT-FOF-08-2019 - Industrial partners sought for developing pilot lines for modular factories in automotive, naval and defence sectors.

Summary

A UK Midlands based university is seeking technical industrial partners in the automotive, naval, and defence sectors for the H2020 call DT-FOF-08-2019. The project aims at developing modular production systems for industrial sectors that can be adapted to individual use-cases as are necessary. This would allow creating efficient, highly adaptable production lines.

Creation Date	01 November 2018
Last Update	03 November 2018
Expiration Date	21 December 2018
Reference	RDUK20181101001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/ff2375ea-67e1-4cf4-a293-00f861a59a5a

Details

Description

A UK University based in the Midlands who already has partners from the UK, France, Portugal and Russia is now seeking industrial partners for the Horizon 2020 call DT-FOF-08-2019 to demonstrate the developed modular systems and their advantages of modularity in production lines and their impact in configuration time, production costs, and resource efficiency.

The project objective is to develop and demonstrate modular production equipment capable of creating highly adaptable production lines to enable efficient production of small series tailored to customer demands for different sectors (i.e. automotive and naval/defence), whereas it is aiming to achieve a reduction by 15% in reconfiguration/downtime and in the overall production costs, an increase of 10% in resource efficiency, as well as improvement from run-to-run for small lot sizes.

To this extent, the following specific objectives (SO) have been defined by the lead:

- SO1: To develop highly flexible and real-time reconfigurable modules capable of producing a wide variety of complex products (to be detailed by use-cases), of adapting to rapid changes in production lines through automated processes or manual intervention, that count with accessible and secure interfaces.
- SO2: To demonstrate the advantages of modularity in production lines and its impact on

configuration time, production costs, resource efficiency.

The operative objectives (OO) are related to the defined work packages and are detailed below:

- OO1: To develop and integrate a range of production modules covering different disciplines (i.e. mechanical cutting tools, thermal processes, later treatments, additive manufacturing) into pilot lines.
- OO2: To integrate all the production management systems, including real-time process control, into a reconfigurable line.
- OO3: To deal with data interoperability between modules and process line (including legacy hardware and software).
- OO4: To deal with all the safety related aspects.
- OO5: To demonstrate the proper functioning of the pilot line through the implementation of different use-cases (production of different products covering processing technologies and features such as multi-functionality (mechanical, electrical, thermal, optical), multi-materials and complex shapes.
- OO6: To elaborate a successful exploitation plan, by means of different modules and tools in order to design the most profitable potential business models considering economic, financial and strategic aspects.
- OO7: To disseminate project information and project results in different settings, including academic and scientific, industrial and divulgation environments.

The university is now seeking technical industrial partners ideally from the naval, automotive and defence sectors to help them develop a modular system and demonstrate the advantages of modularity in production lines and its impact on configuration time, production costs, and resource efficiency.

EOI Deadline 21st December 2018
Call Deadline 21st February 2019

Advantages and Innovations

Manufacturing is a key enabler for Europe's grand societal challenges.

The manufacturing sector employed 31 million people in 2009, generated € 5,812 billion of turnover and € 1,400 billion of value added, with SMEs being the backbone of the manufacturing industry in Europe.

They provide around 45 % of the value added and 59 % of manufacturing employment.

The trend in the production industry is going away from mass-produced products, towards individual products, which are adapted to the customer requirements (small series tailored to customer demands). Therefore, current important business challenges for manufacturing companies are related to:

- increasing the flexibility through a reduction in the time needed to reconfigure the production line/downtime,
- increasing resource efficiency when producing customised products
- keeping the overall costs of production down.
- improving yield from run-to-run for small lot sizes.

In this context, modularity is the strategy that many industrial sectors are adopting (i.e. which are the sectors the university are covering with the project), either in product development or in industrial production configuration, to create efficient highly adaptable production lines. Modular production is seen as an opportunity for competitiveness and survival of many large companies and SMEs in Europe.

In this context it is crucial to come up with flexible, modular production systems, as the ones developed within the project, that can be adapted to individual use-cases are necessary.

Technical Specification or Expertise Sought

Partner: Industrial partners based in the automotive, naval, and defence sectors (other sectors will be considered)

Role: to demonstrate the developed modular systems and their advantages of modularity in production lines and its impact in configuration time, production costs, and resource efficiency.

Stage of Development

Proposal under development

IPR Status

Other

Comment Regarding IPR status

Registered design, plant variety, etc.

Keywords

Technology

01004012	Operation Planning and Scheduler System
01006013	Communications Protocols, Interoperability
02003002	Manufacturing plants networks
09001005	Mechanical Technology related to measurements
10001002	Assessment of Environmental Risk and Impact

Market

08002006	Numeric and computerised control of machine tools
08003001	Machine tools, other metal working equipment (excl. numeric control)
08003007	Other industrial equipment and machinery
09003001	Engineering services
09004008	Other manufacturing (not elsewhere classified)

NACE

C.28.9.9	Manufacture of other special-purpose machinery n.e.c.
C.29.1.0	Manufacture of motor vehicles
C.32.9.9	Other manufacturing n.e.c.

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Relevant Sector Groups

Aeronautics, Space and Dual-Use Technologies
Automotive, Transport and Logistics

Client

Type and Size of Organisation Behind the Profile

University

Year Established

1835

Already Engaged in Trans-National Cooperation

Yes

Experience Comments

The lead partner already has a consortium consisting of partners from the following countries:
UK, France, Portugal and Russia.

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

Industrial partners

Ideal sectors:

Automotive,
Navel
Defence

Roles and skills:

- Reconfigurable pilot line integrator.
- End user (one or many) of the different sector use cases (complex products) that will be produced in the reconfigurable pilot line.
- Production management systems expert.
- Expert in safety of modular process units.
- Process technologies experts (one or many) (the technologies will be defined in a due course).

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

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

Call: Transforming European Industry
Topic: DT-FOF-08-2019: Pilot lines for modular factories (IA 50%)

Submission and evaluation scheme

Single stage.

Anticipated Project Budget

12-15 million euros

Coordinator Required

No

Deadline for EOI

21 Dec 2018

Deadline of the Call

21 Feb 2019

Project Duration

144 week(s)

Weblink to the Call

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/dt-fof-08-2019.html>

Project Title and Acronym

DT-FOF-08-2019 - Industrial partners sought for developing pilot lines for modular factories in automotive and/or naval and/or defence sectors.



3.

***TECNOLOGÍAS DE LA
CONSTRUCCIÓN***

Technology Request

A Chinese company is looking for design of aviation cylindrical gear modification with high speed, thin spokes, small modulus

Summary

A Chinese engine research institute is looking for design of aviation cylindrical gear modification with high speed, thin spokes, small modulus. They want to cooperate with partners through research cooperation agreement and technical cooperation agreement.

Creation Date	19 October 2018
Last Update	07 November 2018
Expiration Date	08 November 2019
Reference	TRCN20181019006
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/6388599a-01fe-4a3c-8f65-a4574860a4b1

Details

Description

The institute which established in 1968, is located in Zhuzhou City, Hunan Province. It is the only research and development base of small and medium sized aero engine, ground gas turbine and helicopter transmission system.

They are looking for design of aviation cylindrical gear modification with high speed, thin spokes, small modulus.
They want to cooperate with partners through research cooperation agreement and technical cooperation agreement.

The technology should include:

1. Modeling and analysis on high-speed, thin spokes and small modulus aviation cylindrical gear with considerations of gear modification, installation error, manufacturing error, gear tooth gap and support stiffness;
2. Analysis and study on the influence that gear tooth modification parameters make on high-speed, thin spokes and small-modulus aviation cylindrical gears;
3. Dynamic analysis and modeling of high-speed, thin spokes and small modulus aviation cylindrical gear with considerations of gear modification, installation error, manufacturing error, gear tooth gap and support stiffness;
4. Analysis and study on the influence of dynamic performance that gear tooth modification parameters make on high-speed, thin spokes and small-modulus aviation cylindrical gears;
5. Software development for high speed, thin spokes and small modulus aviation cylindrical

gears.

Technical Specification or Expertise Sought

Analyze the influence of gear engagement performance that gear tooth modification parameters make on high-speed, thin spokes and small-modulus aviation cylindrical gears, and master preliminary modification design. After the modification, the distribution coefficient of load and dynamic meshing force of the gears should reduce by over 10% compared with that before modification, and develop the corresponding modification design software.

Keywords

Technology

02006006 Construction engineering (design, simulation)
03003 Apparatus Engineering

Market

08003006 Power transmission equipment (including generators & motors)

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

1968

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Chinese

Client Country

China

Partner Sought

Type and Role of Partner Sought

The company is looking for R&D institution or company involved in design of aviation cylindrical gear modification with high speed, thin spokes, small modulus. The company is interested in research cooperation and technical cooperation.

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement

Technology Request

A Chinese company is looking for active control technology of error in high-speed accessory gear transmission

Summary

A Chinese engine research institute is looking for active control technology of error in high-speed accessory gear transmission. They want to cooperate with partners through research cooperation agreement and technical cooperation agreement.

Creation Date	19 October 2018
Last Update	07 November 2018
Expiration Date	08 November 2019
Reference	TRCN20181019007
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/5b86b9a3-2618-4670-bbdb-77139439138f

Details

Description

The institute which established in 1968, is located in Zhuzhou City, Hunan Province. It is the only research and development base of small and medium sized aero engine, ground gas turbine and helicopter transmission system.

They are looking for active control technology of error in high-speed accessory gear transmission.

They want to cooperate with partners through research cooperation agreement and technical cooperation agreement.

The technology should include:

1. Calculation and analysis method of transmission error in high-speed accessory gear transmission;
2. Analysis of influence of gear surface parameters, flange thickness, spoke plate thickness and support stiffness on error in high-speed accessory gear transmission;
3. optimization design of gear tooth surface, wheel structure and support stiffness based on least transmission error of high-speed accessory gear transmission;
4. Research on the influence of manufacturing error on of high-speed accessory gear transmission;
5. Design and software development of active control of error in high-speed accessory gear transmission

Technical Specification or Expertise Sought

Analyze the influence of gear surface parameters, flange thickness, spoke plate thickness and support stiffness on transmission error of high-speed accessory transmission gear, and master the optimization design of gear tooth surface, wheel structure and support stiffness. After the optimization, the error of gear transmission should reduce by over 10%, and develop corresponding design software.

Keywords

Technology

02006005 Construction maintenance and monitoring methods & equipment
03003 Apparatus Engineering

Market

08003006 Power transmission equipment (including generators & motors)

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

Ref: TRCN20181019007

1968

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Chinese

Client Country

China

Partner Sought

Type and Role of Partner Sought

The company is looking for R&D institution or company involved in active control technology of error in high-speed accessory gear transmission. The company is interested in research cooperation and technical cooperation.

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement

Technology Request

Lithuanian SME is looking for a new low noise lift engine technology

Summary

Lithuanian SME specializing in lift and elevators technologies are seeking for a partner aiming to introduce a new range of service for the market. Currently they are seeking for a partner, who would be able to offer a new generation low noise lift engine technology for slow and high speed lifts and elevators. Company is seeking for a partnership based on commercial agreement with technical assistance or joint venture agreement basis.

Creation Date	16 October 2018
Last Update	03 November 2018
Expiration Date	02 February 2019
Reference	TRLT20181016001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/627264e3-ad73-42d4-8dfb-2383245a0ef0

Details

Description

Lithuanian SME established in 2013 successfully grown their lift and elevators technologies business. Company successfully working on several large scale projects offering different products and services. Recognizing changing nature of requirements, especially in the noise restriction area, company is aiming to introduce updated product for the market - low noise lifts and elevators technology.

Company is currently seeking a partner, who would have a ready to use noiseless or minimal noise engine technology solution, that could be installed in their products. Partnership would be based in commercial agreement with technical support or joint venture basis. In one scenario the partner would act as a general supplier offering additional technical support services. Company would also consider a joint venture proposals to develop products together.

Technical Specification or Expertise Sought

The new technology is required to be the same technical specification as existing engine technology with ability to provide the same strength and speed, but work at a heavily reduced noise level.

Stage of Development

Already on the market

Keywords

Technology

02006001 Materials, components and systems for construction

Market

09007001 Construction companies

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry >500

Year Established

2013

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

Ref: TRLT20181016001

English
Russian
Lithuanian

Client Country

Lithuania

Partner Sought

Type and Role of Partner Sought

Company is looking for a partner, who is able to offer a new solution for the market as a complete product. In addition supplier would be open to provide technical assistance supporting this technology.

Alternatively company would be open to form a joint partnership for further technology development.

Type and Size of Partner Sought

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

Type of Partnership Considered

Commercial agreement with technical assistance

Joint venture agreement



4.

MATERIALES

Technology Request

Searching for partners to manufacture halogen free flame retardants for plastics.

Summary

A Swedish SME active within the polymer chemistry sector has developed halogen free flame retardants (HFFR) for plastics, which provide fire safety without using toxic chemicals. They are looking for international partners for technical cooperation and manufacturing agreement. The manufacturer should be a specialised production company focused within compounding or masterbatch production within thermoplastics and/or polyolefin materials

Creation Date	04 October 2018
Last Update	22 October 2018
Expiration Date	23 October 2019
Reference	TRSE20180418001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/02b104e6-a9d9-4060-ac3b-bdfcaf9822b7

Details

Description

A Swedish company has developed a green flame retardant system, based on functional polymers, for polyolefin plastics. The green flame retardant system is delivered as a synergist, masterbatch and compound. It is completely antimony- and halogen- free and is based on novel polymers that work in synergy with halogen-free flame retardants. The company has significant formulation experience within the field. The company has extensive lab facilities as well as one pilot and one production line for manufacturing of its compounds and customer development. The technology used is twin screw extrusion >40 L/D with side feeding and several gravimetric dosing units.

They are looking for international partners for technical cooperation and manufacturing agreement. The company should be a specialised production company focused within compounding or masterbatch production within thermoplastics and/or polyolefin materials (compounding, masterbatch production, extrusion of polymeric materials/ granules) and with capacity/knowhow/experience of producing complex formulations.

Technical Specification or Expertise Sought

Target company industry expertise:

- Compounding or masterbatch production within thermoplastics and/or polyolefin materials (compounding, masterbatch production, extrusion of polymeric materials/ granules).
- Single or twin screw extruder or co-kneader technology. Preferably focused on highly filled products.

- Side feeders and several gravimetric dosing possibilities on their lines.
- Capacity/knowhow/experience of producing complex formulations.
- The company should be well versed in production/engineering aspects of plastics production.
- Specialised with customised solutions and well managed.

Stage of Development

Already on the market

IPR Status

Patents granted

Keywords

Technology

02002013	Moulding, injection moulding, sintering
02002014	Extrusion
02007002	Building materials
02007014	Plastics, Polymers
10001003	Fire Safety Technology

Market

08001001	Plastic fabricators
08001005	Other fabricated plastics
08001009	Speciality/performance materials: producers and fabricators
08001018	Polymer (plastics) materials

NACE

C.20.5.9	Manufacture of other chemical products n.e.c.
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Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : Yes

Dissemination

Relevant Sector Groups

Materials

Restrict Dissemination to Specific Countries

Belgium, Denmark, Estonia, Finland, Germany, Iceland, Latvia,
Lithuania, Luxembourg, Netherlands, Norway, Poland, Sweden,

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2010

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
Swedish
German

Client Country

Sweden

Partner Sought

Type and Role of Partner Sought

Type of partners sought: Industry

Specific area of activity of the partner:

- Manufacturing expertise: technical compounding or masterbatch production within thermoplastics and/or polyolefin materials.

Tasks to be performed:

- Manufacturing: Production partner that can produce growing volumes of the product.

Type and Size of Partner Sought

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

Ref: TRSE20180418001

Type of Partnership Considered

Manufacturing agreement

Technical cooperation agreement

Technology Request

Shaft for small positioner made of advanced materials required

Summary

A German multinational company is looking for a partner who can develop and/or manufacture a shaft for a small positioner. So far the shaft has been made of stainless steel but now the company looks for a replacement material (e.g. plastics with steel fibre) that has basically the same features as stainless steel and also guarantees the cylindricity/concentricity of the shaft. The co-operation could be under a manufacturing or a commercial agreement with technical assistance.

Creation Date	06 November 2018
Last Update	09 November 2018
Expiration Date	10 November 2019
Reference	TRDE20181105001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/8e8f082b-e9a0-44ca-b3ae-68d923047160

Details

Description

Positioners are primarily used in the process and automation industry for swivel tasks like e.g. for opening and closing pipelines or large process valves.

A large German manufacturing enterprise with many branches worldwide is looking for a developer and manufacturer of a shaft for a small positioner which will replace the currently used shaft that is made of stainless steel.

The new shaft should have nearly the same features as the stainless steel shaft and the optics and surface should also resemble the high-quality appearance of the stainless steel shafts. Furthermore, the characteristics of stainless steel and the cylindricity / concentricity of the shaft must be guaranteed.

Replacement material could be advanced plastic materials like e.g. plastic granulate filled with steel fibres.

The shaft will be employed in the field of rough areas (gas, oil, salt etc). If it meets the technical specifications the new shaft could already be on the market or it may have to be developed according to the company's requirements. Both variants would be possible but the company needs some samples as soon as possible, so it would depend on the stage of development. Primarily, the company is looking for a partner with expertise in the possible replacement materials who would also manufacture the parts.

The envisaged partnership would be a commercial agreement with technical assistance or a manufacturing agreement.

Technical Specification or Expertise Sought

The shaft replacing the current stainless-steel shaft should have the following features:

- stable in rough areas (gas, oil, salt)
- narrow tolerances
- concentricity has to be guaranteed
- optics and surface should be similar to stainless steel
- more features are on the enclosed drawing

Stage of Development

Field tested/evaluated

IPR Status

Copyright

Keywords

Technology

02007005	Composite materials
02007008	Iron and Steel, Steelworks
02007014	Plastics, Polymers

Market

03001009	Other electronics related (including keyboards)
08001004	Fibre-reinforced (plastic) composites
08001018	Polymer (plastics) materials
08002003	Process control equipment and systems
08002007	Other industrial automation

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Relevant Sector Groups

Materials

Client

Type and Size of Organisation Behind the Profile

Industry >500 MNE

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
German

Client Country

Germany

Partner Sought

Type and Role of Partner Sought

Type of partner sought:
industry

Specific area of activity of the partner:
manufacturer/developer of shafts for positioners

Tasks to be performed by the partner sought:

The partner should develop and manufacture the stainless steel shaft required by the company

Type and Size of Partner Sought

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

Type of Partnership Considered

Manufacturing agreement
Commercial agreement with technical assistance

Technology Request

Hydrophobic nanoparticles technology (anti-fouling paints)

Summary

A company based in Luxembourg is looking for a partner able to provide nanoparticles technology to be added to paints, to prevent the adherence of organisms in aquatic environment. The company is looking for research or technical cooperation agreement.

Creation Date	11 October 2018
Last Update	08 November 2018
Expiration Date	15 November 2019
Reference	TRLU20181005001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/9e921cd2-72dd-430f-9d92-1f59282b9cac

Details

Description

Traditional antifouling technologies are based on the controlled release of biocides (toxic heavy metals) to prevent fouling organisms from adhering to the hull of a ship. In contact with water, the top layer of antifouling coating is dissolved and the biocides thus offer protection from fouling organisms.

These paint systems are outdated and will be banned in the future because of their negative impact on marine ecosystems.

The company is therefore looking for new and innovative non-toxic additives (thus NOT containing biocides neither heavy metals or substances harmful to the environment).

The company is looking for research or technical cooperation agreements, with a partner able to provide such materials.

Technical Specification or Expertise Sought

Companies able to offer specific materials (silicone epoxy resin or miscible solvent, binder or additive) to be added to painting allowing the no adherence of biomasses.

The most important point is that the proposed solution respects the maritime environment (no release of harmful substances, non toxic material). The final solution adopted must be validated by tests and trials.

Stage of Development

Available for demonstration

Keywords

Technology

02007020 Biobased materials
02007021 Carbon nanotubes
02007024 Nanomaterials

Market

08001019 Speciality/performance chemicals

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Relevant Sector Groups

Materials

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
German
French

Client Country

Luxembourg

Partner Sought

Type and Role of Partner Sought

Type of partner: start-up or company

Role of the partner: provide nanoparticles and co-develop the final formula that demonstrate the performance of anti-fouling

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

Research & Development Request

Partner sought to submit FTI proposal to introduce on the market rubber compound with devulcanised rubber.

Summary

A European association based in Brussels is coordinating a consortium of companies to submit together an FTI proposal. The project will aim at introducing a cost-saving and eco-friendly solution for the rubber industry by piloting and validating a novel technology that can convert rubber waste into regenerated, virgin rubber, commercialising the new material as well as marketing the technology. The consortium is looking for SMEs with experience in rubber regeneration for project partnership.

Creation Date	30 October 2018
Last Update	31 October 2018
Expiration Date	09 January 2019
Reference	RDBE20181030001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/9d9b9380-8f36-4ce1-b268-ff5e948c1b30

Details

Description

The rubber industry must manage two important issues. The first is related to raw material sourcing. The demand for rubber is increasing annually around the world, while the natural rubber production has begun to decline in key producing countries, which could have a dire impact on the EU, as the production is completely reliant upon import, to the extent that rubber has been listed as a "critical material".

The second issue concerns the management of production wastes and scraps generated during the manufacturing process which amounts to 5–15%. The wastes that cannot be reintroduced into the production process must be disposed or used in another manner.

This poses a two pronged problem: the waste of valuable rubber, and, the need to replace the material lost as waste. Under the Circular Economy, this problem could become an opportunity to recycle them as regenerated materials for the rubber industry.

The project aim to introduce a cost-saving and eco-friendly solution for the rubber industry by piloting and validating a novel technology that can convert rubber waste into regenerated, virgin rubber, commercialising the new material as well as marketing the technology. In order to face those two issues, the European organisation based in Brussels is the coordinator of a consortium which is developing a proposal under Horizon 2020 - Fast Track to Innovation funding scheme.

The project offers a new concept and complete solution for rubber waste recycling. The technology can convert rough crushed rubber waste (production scraps) or tyre crumb into high-quality, ready-to-use rubber raw materials for most rubber applications.

The organisation is looking for SME with experience on rubber regeneration to join the consortium.

Deadline for Eols : 9/01/2019

Deadline of the call : 21/02/2019

Project duration : 106 weeks

Advantages and Innovations

Recycled material will be used as substitute for Natural rubber or SBR (Styrene-Butadiene Rubber). The cost savings is the difference between the cost of Natural Rubber or SBR to devulcanised rubber.

Through the FTI proposal and project submission it will be possible:

- The development of range of compound obtained from devulcanised recycled rubber from tyre recycling or other sources.
- The implementation of an industrial scale line able to produce 200 tonnes / months of devulcanised rubber to be used for the industrial production of conveyor belts using high ratio of devulcanised rubber obtained from rubber scraps from the same production and / or from tyre recycling.

Technical Specification or Expertise Sought

The consortium is looking for companies who have great Experience in producing and / or using rubber compound, for various kind of applications and are interested in working together to introduce a new technology in their production and expand the market with a former experience in international projects

Stage of Development

Proposal under development

Keywords

Technology

02007016	Rubber
03004008	Plastics and Rubber related to Chemical Technology
10003004	Recycling, Recovery

Market

06001006	Chemicals and materials
08004002	Chemical and solid material recycling

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Other

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
French
Italian

Client Country

Belgium

Partner Sought

Type and Role of Partner Sought

The organisation on behalf of the consortium is looking for SMEs who have great experience in producing and / or using rubber compound, for various kind of applications and are interested in collaborate to submit a Fast track to Innovation proposal and aim at introducing a new technology in their production and expand the market

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

H2020

Call title and identifier

H2020-EIC-FTI-2018-2020

Coordinator Required

No

Deadline for EOI

09 Jan 2019

Deadline of the Call

21 Feb 2019

Project Duration

106 week(s)

Weblink to the Call

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-eic-fti-2018-2020.html#c,topics=callIdentifier/t/H2020-EIC-FTI-2018-2020/1/1/1/default-group&callStatus/t/Forthcoming/1/1/0/default-group&callStatus/t/Open/1/1/0/d>



5. ***TRANSPORTES***

Technology Request

Motor controller and charger sought for a new light and environmentally friendly aircraft

Summary

A French SME is looking for a motor controller and charger for a new light and environmentally friendly aircraft. Technical cooperation or license agreement is sought with companies or technical centers that can supply the solution today or under the 18th coming months according to the requirements.

Creation Date	16 October 2018
Last Update	08 November 2018
Expiration Date	09 November 2019
Reference	TRFR20181010001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/25e08648-c022-41f9-8355-74a66cb4fbaa

Details

Description

The French SME working in the aircraft domain is looking for a motor controller and charger for use in an innovative light and environmentally friendly aircraft.

Technical cooperation is sought with a supplier that can offer products that maybe don't comply today with the requested specifications but with a development road map to achieve compliance within 18 months.

The provider should be able to design, develop and realise trials according to the requirements of the French company and produce the motor controller and charger.

Production rate : 250 per year for the aeronautical market and 1000 per year for the automotive one as automotive is also a possible market.

The product must be certified according to ASTM F-2840 within 30 months.

The supplier will be subject to controls and audits from the French company and the civil aviation authorities. It is not requested the company be a production or design organisation in accordance with Part-21 but it would be a bonus.

Technical Specification or Expertise Sought

- Voltage : HVDC : 500V to 1000V
- Output power for electric motor : 120 kW

Ref: TRFR20181010001

- Number of pole : Phase will be adjusted according to the motor specifications
- Main function : Motor speed control and over speed protection, battery charger from electric motor energy regeneration,
- The motor controller and charger must be able to regulate and optimise the propeller pitch and the motor speed according to the airspeed and the pressure altitude. The optimisation will be made with the propeller efficiency abacus
- Electrical conversion AC/HVDC from mains to load the battery
- Power grid input : AC three-phase 400V or single phase 110-220V at 50 Hz to 500 V to 1000 V
- Power grid power : 43kW-45 A (max)
- Interface with the BMS (Battery Monitoring System)
- Electric insulation and water-resistance
- Designed to prevent improper (reverse polarity) connection
- Incorporate adequate ground fault protection
- Weight < 5 kg (including cooling system)
- Volume : 3L
- Efficiency : 99 %
- MTBF (Mean Time Between Failures) : 100 000h
- the Motor controller and charger must be isolated from the aircraft airframe
- Monitoring and safety devices to protect against over temperature, over voltage, over current,...
- Current regulation
- Current limitations and protection of electrical network for charge and aircraft faults
- Data output for pilot, mechanics and aircraft systems, (CAN bus interface)
- Full built-in test with status output on CAN bus
- Dialog with charging station or mains according to automotive standards
- Cooling : Air or Water
- Coolant temperature : 90°C
- Cooling flow : determined by the supplier
- Quantity of cooling : determined by the supplier
- The supplier shall indicate compliance with Ingress Protection standards
- Provided with CAD step files
- Provided with full data sheet and interface description
- Motor controller and charger capability to regulate the coolant temperature would be a big bonus
- Motor controller and charger capability to be integrated with the electric motor would be a big bonus

The motor controller and charger must be able to resist to the following environment :

- temperature

Flying with ambient temperature between -10 °C and +35°C

Storage temperature between -20°C and +50°C

- Humidity

Flying with relative humidity between 0 and 90 %

- Altitude :

0 to 20 000 FT : 0 to 7 000 ft

Stage of Development

Concept stage

IPR Status

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

Keywords

Technology

02008001 Air Transport
02009010 Lightweight construction

Market

09001005 Motor vehicles, transportation equipment and parts
09001006 Airfield and other transportation services

NACE

H.51.1.0 Passenger air transport

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Relevant Sector Groups

Automotive, Transport and Logistics

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
French

Client Country

France

Partner Sought

Type and Role of Partner Sought

Type of partner sought : Industry, technical center

Role of the partner sought : to deliver the technical solution with the requested specifications - if not ready today, to be able to achieve compliance within 18 months

Type of cooperation : license agreement or technical cooperation

Type of Partnership Considered

License agreement
Technical cooperation agreement

Technology Request

Leading Dutch service provider in mail and logistics is looking for innovative SMEs who have solutions to improve the process of loading and unloading delivery vans

Summary

The Dutch service provider is transforming from a traditional mail delivery business into a logistics service provider. They are looking for innovative SMEs who have solutions for an improved process for loading and unloading the delivery vans. An easy solution for loading and finding parcels in the van suits the needs of all of their delivery employees. The cooperation would be in the frame of a technical cooperation agreement. This technology request is part of an open innovation challenge.

Creation Date	09 October 2018
Last Update	12 October 2018
Expiration Date	13 October 2019
Reference	TRNL20181002001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/ba915884-6f81-4260-8950-5ac34e2ba9da

Details

Description

The Dutch company has over 200 years of experience in this market. They have the largest and most modern logistics mail and parcel network of the Netherlands. They deliver parcels every day and mail five days a week. On a weekday, they deliver on average 675,000 parcels and 8 million letters throughout the Benelux.

The goal of this technical request is to improve on the quality and speed of their parcel delivery process. The Dutch company aims to save time, deliver more efficiently and have happier customers. They are still growing quickly and therefore have to mutate the routes often and have to work with a lot of new unexperienced delivery employees.

The current process is built on the assumption that the delivery employee has geographical knowledge. Employees without geographical knowledge are not able to load their vans efficiently and are unable to find the right parcel quickly when arriving at the recipients address. This results in inefficiency, quality loss, long handling time at the door and sub-optimal capacity of delivered parcels per day.

The improved process for loading and unloading the delivery vans should result in a quicker finding of the right parcel and a decrease of time of handling per parcel at both points of the

journey. It should:

- Decrease time and costs spent by drivers on handling parcels
- Increase flexibility of their logistic planning
- Increase the satisfaction of their employees
- Increase the amount of parcels they can deliver per day
- Future proof because of the expected growth of the parcel market

The Dutch company is also open to different types of partnerships than a technical cooperation agreement.

Innovation Challenge

This technology request is an innovation challenge that is published on an open innovation platform. If interest in cooperation with this firm is expressed, the potential partner will be guided towards this open innovation platform on which he can get in touch with the company via a chat function. Mind that posts on this platform are not confidential. Besides open discussion on the platform, sharing of confidential information will be made possible on demand.

After closing of the open innovation platform on November 23rd, the corporate company will make a selection of the organizations that have been active in the chat for further contact. Expressions of interest that are made after November 23rd will be handled as usual in the Network.

Technical Specification or Expertise Sought

The requested solution should:

- Be easy to use for new employees
- Have a positive impact on efficiency, preferable for both new employees and experienced ones
- Increase the amount of parcels they can deliver per day
- Not cause a decrease in capacity of parcels per route
- Be suitable for subcontractors (trucks that are not owned by the company)
- Not limit them in mutating the routes or planning differently, even if it's last minute
- Be web based (if it's an IT solution)
- Reduce stress for their employees and increase their happiness
- Be standardisable / a standard solution (for "normal" vans)
- Include the possibility to pilot on a small scale
- Be future proof
- Complement the other processes the Dutch company already has

Which disciplines do they need:

- Smart storage systems / technology
- Warehousing technology
- ICT related to GIS / route planning
- Mobile technology
- Board computer
- AR/VR technology
- Laser technology
- Automotive solutions

The price of the solution can not result in an increase of the costs per parcel in the overall journey.

Stage of Development

Concept stage

Comments Regarding Stage of Development

Other stages are also interesting for this Dutch company:

- Already on the market
- Available for demonstration
- Field Tested / Evaluated
- Prototype available for demonstration

Keywords

Technology

01004003	Applications for Transport and Logistics
01004007	GIS Geographical Information Systems
01005006	Visualisation, Virtual Reality
02009001	Design of Vehicles
02010003	System and transportation

Market

02007005	Communications/networking
02007026	Distribution, clearing house

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Dissemination

Relevant Sector Groups

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry >500 MNE

Year Established

1799

Turnover

>500M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Dutch

Client Country

Netherlands

Partner Sought

Type and Role of Partner Sought

Type of partner sought:

- SME
- The Dutch company is also interested in Start Ups

Role of partner: SME's are invited to share their ideas and propose their solutions. After being selected, the SME will be proposed to participate in the development of the requested solution.

Other types of partnership can be offered and discussed with the Dutch company.

Type and Size of Partner Sought

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

Type of Partnership Considered

Technical cooperation agreement

Technology Request

Spanish city council is looking for smart mobility solutions under research, technical or commercial agreement

Summary

A Spanish city council aims to move forward on sustainable and smart mobility solutions. Consequently, this city council is seeking for urban, sustainable and smart (eco) mobility initiatives, agreements or partnership, whereas innovation leads the way and simultaneously meets social challenges. It offers an open innovation ecosystem, creates a living lab, which are used to add value to the innovation process. Research, technical cooperation or commercial agreement are sought.

Creation Date	26 September 2018
Last Update	10 October 2018
Expiration Date	11 October 2019
Reference	TRES20180926001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/43377d70-4726-406c-92de-72a8b95df373

Details

Description

The city council has extensive experience in knowledge management and innovation programs and actions oriented to reduce polluting emissions as well as to improve the mobility services and to reduce the congestion of the city. At the same time, new political and economic decision-making for sustainable mobility in urban environments have been implemented in the last year.

This recently expertise can be summarized as follows:

- e-Bus plus: a complete eBus charging infrastructure (offboard high power pantographs).
- e-Cars: internal electric vehicles (EVs) fleets.
- Car sharing service for council staff.
- Clean vehicles programme that prioritizes the purchase of EVs and alternative energy vehicles
- e-Cars: business EVs fleet (taxi, last mile delivery, commercial fleets). Currently there are 45 EV users and their associated home charging points providing data on their mobility habits, through a "data sharing services on the use of EVs with intensive mobility and charging point" agreement.
- Citywide charging point infrastructure, including a public use charging point's network with more than 60 connectors.
- Pioneering private e-car mobility and charging station data transfer model.
- Data profiling and intermodal transport of freight and goods transport models:

- * Micro model pilot of urban delivery of goods.
- * Macro model pilot of freight intercity transport

The expertise sought on smart and sustainable (eco)mobility are:

- Intermodal freight and good modelling, systems analysis, and smart solutions.
- Vehicle-to-vehicle (V2V), vehicle-to-infrastructure (V2I) and vehicle-to-everything (V2X).
- Smart infrastructures, that adapts to road conditions and allows for the most efficient throughout traffic.
- Autonomous vehicles
- Standardization of charging point's network and access interoperability
- Mobility dataset sharing aimed to improve the urban mobility management and planning
- Social impacts of smart mobility; challenges, policies and guidance

Potential partners are entities that can offer smart mobility solutions under research, technical cooperation or commercial agreement with technical assistance.

Technical Specification or Expertise Sought

Stakeholders concerned and encouraging sustainable and smart (eco)mobility are expected to come forward with their ideas and concepts, and provide expertise within the scope of some of the following specific technologies, focus on gaining new projects or knowledges in order to further develop existing, new or improved products, tools, methods or services.

Keywords

Technology

01003025	Internet of Things
01004003	Applications for Transport and Logistics
02009002	Hybrid and Electric Vehicles
02010003	System and transportation

Market

02006005	Big data management
02007007	Applications software
09001005	Motor vehicles, transportation equipment and parts
09001007	Other transportation

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Contact Person

Maria Dolores Guillén Ruiz

Phone Number

Ref: TRES20180926001

+34 955 00 74 78

Email

mariad.guillen.ruiz@juntadeandalucia.es

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Other

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
German
French
Portuguese
Spanish
Italian

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

The city council seeks entities like industries, research & innovation centres, start-ups, entrepreneurship and other institutions geared towards smart mobility solutions.

The activities must be in smart mobility, big data, electric vehicles, vehicles to vehicles (V2V), vehicle to infrastructure (V2I), vehicles to everything (V2X), autonomous vehicles, smart infrastructure, smart logistic or urban mobility modelling.

The entity sought must to implant the appropriate technology.

Type and Size of Partner Sought

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

Type of Partnership Considered

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