



Boletín nº 172 de Oportunidades de Cooperación:

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

(Enero 2019)

### Technology Requests

- Seeking companies or research centres to develop innovative manufacturing methods for the construction of rotor and stator elements of turbomachinery
- French company is looking for semi-automatic cold press machine to make fresh juice faster
- Looking for manufacturer of metal bellows expansion joints
- A Turkish-German joint venture chemical company specialized in textile auxiliaries is looking for a technology for production of polyurethanes for textile applications with manufacturing agreement, licence agreement or joint venture agreement.
- German SME is looking for manufacturing partner for innovative yachts (catamaran) export
- Small Italian company in the furniture sector is looking for technical expertise and know-how in plastic materials
- Large German chemical company seeking proven method for localized surface treatment for non-conductive material
- Looking for a manufacturer of tungsten shielding elements
- Partners sought for the development of high-performance cellulosic fibre materials
- Recycling company from Greece is looking for a glass label removal solution for bottles under a technical agreement
- French company seeking rectifiers to be used in a new light and environmentally friendly aircraft

### Research and Development Requests

- H2020 partners sought: CE-SC5-07-2018-2019-2020: Raw materials innovation for the circular economy
- H2020 LC-GV-03-2019 Public or private entity sought for developing an urban lab to test and deploy Electric Vehicles

## Technology Request

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# Seeking companies or research centres to develop innovative manufacturing methods for the construction of rotor and stator elements of turbomachinery

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### Summary

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*An Italian company, specialised in the production of Organic Rankine Cycle systems for power production from renewable energy sources, has patented innovative production methods for turbomachinery components, in particular bladed parts. The company is looking for partners interested in developing the new manufacturing methods under technical cooperation agreements. Joint venture and manufacturing agreements can be considered with companies able to offer a deeper and continuous collaboration.*

|                        |   |
|------------------------|---|
| <b>Creation Date</b>   | 12 September 2018   |
| <b>Last Update</b>     | 20 September 2018   |
| <b>Expiration Date</b> | 21 September 2019   |
| <b>Reference</b>       | TRIT20180906001   |
| <b>Public Link</b>     | <a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/ec753905-2885-47ae-8a14-0bdc63bae778">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/ec753905-2885-47ae-8a14-0bdc63bae778</a> |

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### Details

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#### Description

An Italian company, featured by a deep experience in power station sector, designs, engineers and produces Organic Rankine Cycle (ORC) systems for power production from renewable energy sources, such as biomass, solar, geothermal energy and waste heat recovery. The ORC turbines and plants are fully developed and manufactured internally: that activity includes R&D, testing, engineering, project management and after-sales service. R&D activity is a key factor of the company success, since it allows to adapt the ORC technology to obtain high efficiency and flexibility in a wide range of applications. The company has patented innovative production methods for turbomachinery components, in particular bladed parts. To produce the new components the company needs the collaboration of new partners (companies or research centres) with a deep experience in mechanical parts engineering and manufacturing. The requested collaboration is aimed in developing and testing new manufacturing methods for the patented components production. The company is interested in collaborating under technical cooperation agreements. If the partners are featured by adequate skills and experience and are interested in a deeper and continuous collaboration, joint venture and manufacturing agreements can be considered too.

#### Technical Specification or Expertise Sought

Ref: TRIT20180906001

The partners sought can be companies or research centres, featured by a great experience in mechanical parts engineering and manufacturing.

They have to develop and test new manufacturing solutions to optimize the components production.

The potential partners shall have tools like: abrasive water jet cutting machines, plasma cutting machines, cutting machines, milling machines, EDM (Electric Discharge Machining) machines. Specific skills are required in the development and optimization of the machining process.

## IPR Status

Patent(s) applied for but not yet granted, Patents granted, Granted patent or patent application essential

## Comment Regarding IPR status

The patents have been requested to be extended worldwide.

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## Keywords

### Technology

|          |   |
|----------|---|
| 02002010 | Machining (turning, drilling, moulding, planing, cutting) |
| 02004    | Plant Design and Maintenance                              |
| 04005001 | Geothermal energy   |
| 04005006 | Solid biomass   |

### Market

|          |                      |
|----------|----------------------|
| 06003005 | Geothermal energy    |
| 06003009 | Biomass and Biofuels |

### NACE

|          |   |
|----------|---|
| C.28.9.9 | Manufacture of other special-purpose machinery n.e.c. |
|----------|---|

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## Network Contact

### Issuing Partner

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**Open for EOI :**    **Yes**

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## Dissemination

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### Relevant Sector Groups

Intelligent Energy

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## Client

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### Type and Size of Organisation Behind the Profile

Industry >500 MNE

### Year Established

2000

### Turnover

20 - 50M

### Already Engaged in Trans-National Cooperation

Yes

### Certification Standards

ISO 9001

### Languages Spoken

English  
Italian

### Client Country

Italy

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## Partner Sought

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### Type and Role of Partner Sought

The ideal partners are companies or research centres with deep competences in mechanical parts engineering and manufacturing. Specific skills are required in the development and optimization of the machining process.

They have to develop and test new manufacturing solutions to optimize the patented components production, under technical cooperation agreements.

In the case of industrial partners interested in a deeper and continuous collaboration, the Italian company can consider to start joint venture or manufacturing agreements.

## **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**

Manufacturing agreement  
Technical cooperation agreement  
Joint venture agreement

## Technology Request

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# French company is looking for semi-automatic cold press machine to make fresh juice faster

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### Summary

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*A young French company specialised in agribusiness produces fresh and healthy juice. In order to strengthen its activity, the SME is urgently looking for a cold press machine (new generation hydraulic press or screw press). The objective is to extract 100 liters/hour of juice from various recipes based on a mixture of herbs, vegetables and fruits. The SME is seeking commercial agreement with technical assistance with a manufacturer of semi-automatic agrofood equipment.*

|                        |   |
|------------------------|---|
| <b>Creation Date</b>   | 23 February 2018  |
| <b>Last Update</b>     | 06 March 2018   |
| <b>Expiration Date</b> | 07 March 2019   |
| <b>Reference</b>       | TRFR20180223001   |
| <b>Public Link</b>     | <a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/1fc221ad-3983-4973-81a5-13e3ad84b544">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/1fc221ad-3983-4973-81a5-13e3ad84b544</a> |

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### Details

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#### Description

A French company is specialised in fresh juice production for consumers and distributors. Its main activity is to develop several kinds of juice extracted from herbs, vegetables and fruits such as mint, parsley, carrot, beetroot, apple, lemon, raspberries, zucchini, cabbage, chives, cucumber....

In order to upscale its production, the young company is interested in acquiring a cold press machine with a capacity of 100 liters per hour of extracted juice, that is to say an average of 200/400 tours/min.

The SME is interested in finding a technology of hydraulic or screw press. The cold press machine is currently done by table top juice extractor. This process requires plenty of time with 21 liters in 45min. With the acquisition of the cold press machine, the processing time would be divided by three.

The French SME is looking for long-term partnership, under commercial agreement with technical assistance, with agrofood cold press manufacturer.

#### Technical Specification or Expertise Sought

The stainless steel machine:

-should be a new generation of hydraulic press (double plates) or screw press.

Ref: TRFR20180223001

- should be made of stainless steel (no pieces of wood for sanitary aspects)
- should be dimensioned to press in the same time around 300kg/hour of mixed herbs-vegetables-fruits
- must also be versatile for herbs, vegetables and fruits.
- should press the raw material to different grain sizes to obtain pure juice or smoothies products
- should be easy to clean
- should have price under 10000 € before tax
- could be new or pre-owned

## Stage of Development

Already on the market

## Comments Regarding Stage of Development

The French company could be eventually interested in a machine available for demonstration

## Keywords

### Technology

|          |   |
|----------|---|
| 02002005 | Forming (rolling, forging, pressing, drawing) |
| 02002008 | Jointing (soldering, welding, sticking)       |
| 08001001 | Drink Technology                              |
| 08001004 | Food Processing                               |
| 08001005 | Food Technology                               |

### Market

|          |   |
|----------|---|
| 07003002 | Health food                                       |
| 07003003 | Soft drinks and bottling plants                   |
| 07006    | Other Consumer Related (not elsewhere classified) |
| 08003007 | Other industrial equipment and machinery          |

### NACE

|          |  |
|----------|--|
| C.10.3.2 | Manufacture of fruit and vegetable juice |
|----------|--|

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**Open for EOI :**    **Yes**

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## Dissemination

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### Relevant Sector Groups

Agrofood

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## Client

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### Type and Size of Organisation Behind the Profile

Industry SME <= 10

### Year Established

2017

### Turnover

<1M

### Already Engaged in Trans-National Cooperation

No.

### Languages Spoken

English  
French

### Client Country

France

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## Partner Sought

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### Type and Role of Partner Sought

The partner should be an agrofood cold press manufacturer, that is producing semi-automatic agrofood inox equipment: new generation of hydraulic press or screw press.

The partner should provide the machine and the necessary support (training for use, maintenance, supply of textile consumables for hydraulic press...).

The offered equipment could be a new machine or a pre-owned machine.

**Type and Size of Partner Sought**

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

**Type of Partnership Considered**

Commercial agreement with technical assistance

## Technology Request

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# Looking for manufacturer of metal bellows expansion joints

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### Summary

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*A Swiss intergovernmental organization / research centre is looking for supplier of 600 metal bellows expansion joints of internal diameters between 40 mm and 120 mm for connecting the hydraulic circuits of existing superconducting magnets. The partner sought for a manufacturing agreement will be able to deliver the bellows according to the tolerances listed.*

|                        |   |
|------------------------|---|
| <b>Creation Date</b>   | 16 November 2018  |
| <b>Last Update</b>     | 23 November 2018  |
| <b>Expiration Date</b> | 24 November 2019  |
| <b>Reference</b>       | TRCH20181116001   |
| <b>Public Link</b>     | <a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/07483fa2-ca3f-472e-923d-551f1521371b">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/07483fa2-ca3f-472e-923d-551f1521371b</a> |

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### Details

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#### Description

The Swiss NGO & research centre intends to place a contract (manufacturing agreement) for the supply of 600 metal bellows expansion joints.

The metal bellows expansion joints will be used to connect the hydraulic circuits of superconducting magnets and will provide flexibility for installation and thermal contractions. The operating temperature spreads from 1.9 K (-272.15 °C) to ambient temperature, and the internal operating pressure from vacuum to 20 bar.

#### Technical Specification or Expertise Sought

The delivered parts shall comply with the following parameters and conditions:

- The metal bellows expansion joints shall be designed, manufactured and tested according to the standards EN 13445 or EN 14917+A1 and the Pressure European Directive 2014-68-EU for fluid of group 2;
- The metal bellows expansion joints shall respect the design parameters in Table 1
- Edge welded expansion joints technology is not accepted;
- The radial edge weld design is the only allowed design for the bellows attachment welds;
- All parts shall be made of EN 1.4404 or EN 1.4435 stainless steel grades;
- The expansion joints shall consist of a series of formed convolutions made of one or several plies welded at each extremity to cylindrical weldable ends. Ring supports shall be welded on each weldable end (see figure 1);

- Each type of expansion joint shall be fatigue tested at ambient temperature under the parameters in Table 1;
- The expansion joints shall be individually pressure tested according to the Pressure European Directive 2014-68-EU;
- The expansion joints shall be cleaned according to EN 12300;
- The expansion joints shall be individually leak tested according to the EN 1779-A1 by certified personnel to ISO 9712 non-destructive testing (NDT), level 2 and meet the 1.10-10 mbar.l.s-1 requirement.

Table 1:

Internal diameter 40 to 120mm  
 Expansion joint convoluted length Up to 300mm  
 Number of cycles 500  
 Axial stroke Up to 30mm  
 Lateral stroke Up to 10mm  
 Internal relative pressure Up to 20bar  
 External relative pressure Up to 25bar  
 Axial elastic spring rate Up to 1000 N/mm  
 Temperature 1.9 to 300K

The parts shall comply with the following norms and standards:

- Pressure Equipment Directive (PED) 2014/68/EU;
- EN 13445: Unfired pressure vessels;
- EN 14917+A1: Metal bellows expansion joints for pressure applications;
- EN 10204: Metallic products – Types of inspection documents;
- EN 10028-7: Flat products made of stainless steels for pressure purposes – Part 7: Stainless steels;
- EN 10216-5: Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 5: Stainless steel tubes;
- EN 1779-A1: Non-destructive testing : leak testing : criteria for method and technique selection;
- EN 12300: Cryogenic vessels – Cleanliness for cryogenic services;
- ISO 9712: Non-destructive testing – Qualification and certification of NDT personnel.  
 Requirement: Level 2.

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## Keywords

### Technology

02002008                      Jointing (soldering, welding, sticking)  
 02007010                      Metals and Alloys

### Market

08001009                      Speciality/performance materials: producers and fabricators  
 08001012                      Speciality metals (including processes for working with metals)  
 08003001                      Machine tools, other metal working equipment (excl. numeric control)

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**Open for EOI :**    **Yes**

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## Client

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### Type and Size of Organisation Behind the Profile

R&D Institution

### Year Established

0

### Already Engaged in Trans-National Cooperation

No.

### Languages Spoken

English  
French

### Client Country

Switzerland

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## Partner Sought

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### Type and Role of Partner Sought

The partner sought is active in the manufacturing and testing of metal joints.

The tasks to be performed by the partner sought are:

- Engineering design file for the expansion joints;
- Preparation of the drawings of the expansion joints;
- Fatigue test campaign;
- Procurement of all materials;

- Pre-series and series manufacturing;
- Inspection and tests;
- Cleaning;
- Quality control and associated documentation;
- Individual packing;
- Shipping to Switzerland if required

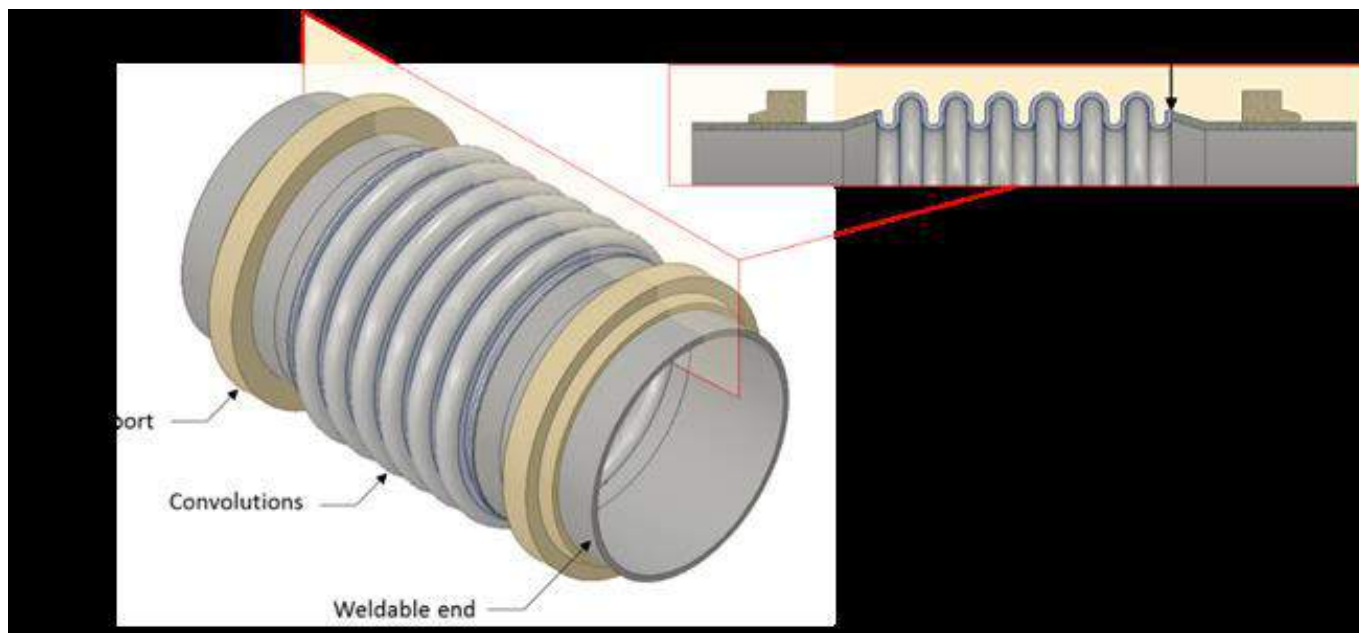
## Type and Size of Partner Sought

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

## Type of Partnership Considered

Manufacturing agreement

## Attachments



3D representation of a model joint.

## Technology Request

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# A Turkish-German joint venture chemical company specialized in textile auxiliaries is looking for a technology for production of polyurethanes for textile applications with manufacturing agreement, licence agreement or joint venture agreement.

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### Summary

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*A Turkish-German joint venture chemical company which is producing textile auxiliaries is located in Turkey. They request a technology to produce polyurethane for textile applications. Manufacturing agreement, license agreement or joint venture agreement is sought. Target countries are Germany, Spain, Italy, Belgium and Portugal.*

|                        |   |
|------------------------|---|
| <b>Creation Date</b>   | 20 June 2018  |
| <b>Last Update</b>     | 10 July 2018  |
| <b>Expiration Date</b> | 11 July 2019  |
| <b>Reference</b>       | TRTR20180620001   |
| <b>Public Link</b>     | <a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/e3bcd939-2deb-4eda-a75e-ae7de74aa870">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/e3bcd939-2deb-4eda-a75e-ae7de74aa870</a> |

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### Details

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#### Description

A company is a joint venture company of Germany and Turkey. Company is servicing its customers for almost 20 years in Turkey and it is a market leader in textile auxiliaries business. They would like to adapt already existing polyurethane production technology to their own range. The chemistry of the polyurethane should be compatible with the textile finishing and coating applications. They have almost the all production facilities for textile auxiliaries. They don't have the exact know how for producing polyurethanes which is already existing know how in the European market. They would like to transfer this know how. Manufacturing agreement is sought if a partner already has only know how but no manufacturing. If a possible partner has know how and production facilities, a joint venture agreement or license agreement for production in Turkey is sought.

#### Technical Specification or Expertise Sought

Potential partner should have the polyurethane production technology or know how and should have the flexibility on modifications.

## Stage of Development

Already on the market

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## Keywords

### Technology

|          |   |
|----------|---|
| 02002002 | Coatings                                |
| 03004    | Chemical Technology and Engineering     |
| 03005    | Textiles Technology                     |
| 03005004 | Finisher related to Textiles Technology |

### Market

|          |                                     |
|----------|-------------------------------------|
| 06001006 | Chemicals and materials             |
| 08001007 | Coatings and adhesives manufactures |
| 09004003 | Textiles (synthetic and natural)    |

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## Network Contact

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

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## Dissemination

### Restrict Dissemination to Specific Countries

Belgium, Germany, Italy, Portugal, Spain,



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## Client

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### Type and Size of Organisation Behind the Profile

Industry SME 50-249

### Year Established

1998

### Turnover

50 - 100M

### Already Engaged in Trans-National Cooperation

Yes

### Languages Spoken

Turkish

English

German

### Client Country

Turkey

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## Partner Sought

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### Type and Role of Partner Sought

A partner could be university or research institute which have the formulation know how for manufacturing agreement. A partner could be a company which have production know how and they can transfer it with licence agreement or joint venture agreement.

### 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

License agreement

Manufacturing agreement

Joint venture agreement

## Technology Request

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# German SME is looking for manufacturing partner for innovative yachts (catamaran)

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### Summary

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*A German SME has developed a technology to manufacture variable-width hulls in the yacht segment. The technology was successfully tested in a prototype of a wide-variable catamaran over several years and developed to market readiness. The company is looking for a manufacturing agreement with a shipyard partner having experience in vacuum infusion technology and the construction of yachts as well as a serial manufacturing infrastructure.*

|                        |   |
|------------------------|---|
| <b>Creation Date</b>   | 19 June 2018  |
| <b>Last Update</b>     | 05 July 2018  |
| <b>Expiration Date</b> | 06 July 2019  |
| <b>Reference</b>       | TRDE20180619001   |
| <b>Public Link</b>     | <a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/1350f5fa-43c2-4c8f-a209-b89eec90ff5f">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/1350f5fa-43c2-4c8f-a209-b89eec90ff5f</a> |

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### Details

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#### Description

A German SME is owner of knowhow and patents in the main maritime countries for the world's first variable-width catamaran. The displacement of the hulls guarantees maximum safety on the water at costs, which are equal to those of a monohull yacht.

Meanwhile a prototype and a first serial boat have been built and the SME is now looking for a partner to manufacture the first product line. The external dimensions of the ship are 15x8 metres, the living area is nearly 40sqm. The hydraulic adjustment of the two hulls reduces the cost of berths.

The boat has a completely disabled accessible gondola. Due to the multi-hull technology, the boat is absolute safe in the water and due to its low draught it has the highest range of application of all yacht types.

The company owns all the moulds required for mass production for over 100 catamarans. The ship has a basic equipment for a fully functional charter boat. There is also a BOM (Bill of Materials) of potential additional options. The production start should already be this summer.

The required partner must have:

- a sufficient hall infrastructure for the simultaneous production of several ships,
- a multidisciplinary core workforce
- excellent experience in the field of vacuum infusion technology
- sufficient financial capacity, which ensures a proper and high-quality order processing

The company is interested in building a long-term partnership in form of a manufacturing agreement in the form of contract manufacturing. Due to shorter transportation distances partners in the Mediterranean but also other countries with sea access are preferred.

## Technical Specification or Expertise Sought

As the ships are made from plastics specific production technology processes are demanded and it is above all important that the partner has experience and a good know-how in vacuum infusion technology. Moreover, experience in the construction of multi-hull vessels is an advantage.

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## Keywords

### Technology

|          |  |
|----------|--|
| 02002013 | Moulding, injection moulding, sintering            |
| 02006001 | Materials, components and systems for construction |
| 02006002 | Construction methods and equipment                 |
| 02007014 | Plastics, Polymers                                 |
| 02009005 | Shipbuilding                                       |

### Market

|          |   |
|----------|---|
| 07001004 | Sporting goods, hobby equipment and athletics clothes |
| 07001007 | Other leisure and recreational products and services  |
| 07004008 | Other consumer products                               |

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**Open for EOI :**    **Yes**

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## Dissemination

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### Relevant Sector Groups

Maritime Industry and Services

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## Client

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### Type and Size of Organisation Behind the Profile

Industry SME <= 10

### Year Established

0

### Already Engaged in Trans-National Cooperation

Yes

### Languages Spoken

English  
German

### Client Country

Germany

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## Partner Sought

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### Type and Role of Partner Sought

Type of Partner: Industry

Specific area of activity: Manufacturer (shipyard) with know-how in vacuum infusion technology

Tasks to be performed: Production partner for the new ship.

### Type of Partnership Considered

Manufacturing agreement

## Technology Request

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### Small Italian company in the furniture sector is looking for technical expertise and know-how in plastic materials

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#### Summary

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*An Italian company in the furnishing and manufacturing industry with competence in the design and development of contemporary seating and furnishings is looking for a partner able to offer know-how/technology solutions for new plastic items. The company intends to expand its production by collaborating with a R&D centre or a manufacturer with expertise in developing innovative, eco-sustainable, versatile products in plastic. Partnership sought: technical cooperation or manufacturing agreements.*

|                        |   |
|------------------------|---|
| <b>Creation Date</b>   | 20 September 2018   |
| <b>Last Update</b>     | 04 October 2018   |
| <b>Expiration Date</b> | 05 October 2019   |
| <b>Reference</b>       | TRIT20180920001   |
| <b>Public Link</b>     | <a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b2552546-1a58-4c82-b9a3-ce8994e58464">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b2552546-1a58-4c82-b9a3-ce8994e58464</a> |

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#### Details

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##### Description

The small Italian company operates in the furnishing and manufacturing industry in the North-East of Italy and it is member of the Italian Chair District, geographically located at the heart of Friuli Venezia-Giulia, a region bordering Slovenia and Austria. It is a young company, created by people with a consolidated experience in special design, interior decoration, combined with high production skills and materials knowledge. The company is interested to start new technical collaboration paths and to gain new market opportunities especially in the Northern Europe geographical area.

The company has competence and know-how in the design and development of contemporary seating and furnishings and highly customised solutions for seats and tables using various materials, such as wood and metal, for hotels, offices, museums, cinemas and theaters, hospitals, nursing homes, churches.

The Italian company is looking for new partnership collaborations with foreign partners that can offer innovative know-how and technology solutions for the production of new plastic items. The aim is to expand the production in the plastic field by starting a collaboration with a research centre or a manufacturer which has specific expertise in developing innovative, sustainable and versatile products in plastic.

The final goal is to set a technical cooperation agreement in which the partner should be able to offer highly innovative and performing plastic solutions with low environmental impact. Such competence may be combined with the high skills in customised and innovative design processes of the Italian company to develop a new and improved plastic production line, with

eco-sustainable characteristics. In addition, a manufacturing agreement with the partner can also be established aimed at producing components/products for which specific know how and skills are required.

The international collaboration may help the Italian company to further broaden its international focus and have the opportunity to enter in a new market area with a more consolidated and structured presence through the agreement with a local partner.

## Technical Specification or Expertise Sought

The Italian company is already producing seats and furnishings with plastic materials. However, its expertise has grown more in the development of wooden and metallic products. The interest of the company is to enlarge and improve the production of its plastic products portfolio. The partners searched should be able to offer sophisticated technical plastic components or plastic profiles increasing reliability in production, providing specific contours, used as connecting elements and enabling completely new designs. The partner should supply special know-how and technologies to offer high-performance and versatile plastics, with tailor-made and improved combinations of properties. Expertise in pultrusion and extrusion may be useful to offer customized product solutions. The offer of materials capable of performing a multiplicity of functions and which can also be processed easily and efficiently can increase the quality and marketability of the final furnishing products. Capacity to deal with eco-sustainable materials will be a plus.

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## Keywords

### Technology

|          |                    |
|----------|--------------------|
| 02001001 | 3D printing        |
| 02007014 | Plastics, Polymers |

### Market

|          |                                     |
|----------|-------------------------------------|
| 08001001 | Plastic fabricators                 |
| 08001006 | Processes for working with plastics |
| 08001018 | Polymer (plastics) materials        |

### NACE

|          |  |
|----------|--|
| C.16.2.9 | Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials |
| C.25.9.9 | Manufacture of other fabricated metal products n.e.c.  |

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**Open for EOI :**   **Yes**

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**Dissemination**

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**Relevant Sector Groups**

Materials

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**Client**

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**Type and Size of Organisation Behind the Profile**

Industry SME <= 10

**Year Established**

0

**Already Engaged in Trans-National Cooperation**

Yes

**Experience Comments**

The Italian company is interested in collaborations with partners from all the EU countries with a special focus on Germany and France.

**Languages Spoken**

English  
German  
French  
Czech  
Spanish  
Italian

**Client Country**

Italy

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**Partner Sought**

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## Type and Role of Partner Sought

The ideal partner is a research centre with specialisation in plastics processes and production and/or a manufacturer with specialisation in plastic furniture material. An agreement can be signed for a technical cooperation where the know-how of the Italian company in customised design is combined with expertise in plastic material of the foreign partner to improve the actual production of plastic furniture and develop a new high-performing and eco-sustainable line of products. Moreover, a manufacturing agreement will be considered too for the production of components and products requiring specific expertise and skills.

## Type of Partnership Considered

Manufacturing agreement  
Technical cooperation agreement



## Technology Request

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# Large German chemical company seeking proven method for localized surface treatment for non-conductive material

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### Summary

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*A large German company from the chemical industry is looking for a proven mild cleaning process that can remove all kinds of contaminants in aqua bath without damaging the delicate material surface. The technology should also clean materials of various porosity and might slightly increase the temperature. Physical and chemical approaches are acceptable. Cooperation with companies or research units is sought in the framework of a joint venture, license or research cooperation agreement.*

|                        |   |
|------------------------|---|
| <b>Creation Date</b>   | 30 November 2017  |
| <b>Last Update</b>     | 21 November 2018  |
| <b>Expiration Date</b> | 30 May 2019   |
| <b>Reference</b>       | TRDE20171130001   |
| <b>Public Link</b>     | <a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/468ae655-9b08-4215-935e-ecf8d6ab3f6d">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/468ae655-9b08-4215-935e-ecf8d6ab3f6d</a> |

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### Details

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#### Description

A large company headquartered in Germany focusing on special chemicals is aiming at optimizing one of its production processes and is thus looking for a partner with a lab-scale-proven cleaning method for small surfaces.

Generally, trace contamination on non-conducting surface like leather, fabric, paper and plastic are common during manufacturing processes. The origin of such contaminants can be processing aids or lubricants which are transferred from mechanical components. The structure of these contaminants is very diverse and range from small organic molecules to low melting fats. Heated cleaning treatment is used in manufacturing process but it may also damage the surface integrity of the material. In a feasibility study, it was shown that a slight increase in temperature of the contaminant enhances the removal of contaminants.

Hence, the company is seeking mild cleaning process that can remove all kind of contaminants in aqua bath without damaging the delicate material surface. The requested technology should also be suitable to clean material of various porosity.

The most relevant features for the new technology/ process include the following:

- Technology should enable the increase of temperature by 10-20K

- Area which should be heated could be up to 1 cm<sup>2</sup>
- Applicable in aqueous environment
- Physical and chemical approaches are acceptable

The suggested methodology should be tested with some materials which should be mentioned in the expression of interest. The technology could be tested in laboratory scale within a couple of weeks. Further development and/or usage of the method would be organized in the form of a joint venture, license or research cooperation agreement. The suitable form of cooperation depends on the kind of development stage and usability of the suggested tools (e.g.

- license agreement for ready and fully usable products,
  - joint venture agreement when investing own knowledge or -
  - research cooperation agreement for great pre-requisites but more customizing necessary.
- Cooperation could be concluded with any experienced research or industry partner.

## Technical Specification or Expertise Sought

The specific reaction conditions are listed below:

- Technology should be mild and not damage the material surface
- Technology should enable the increase of temperature by 10-20K
- Area which should be heated could be up to 1 cm<sup>2</sup>
- Applicable in aqueous environment
- Physical and chemical approaches are acceptable

## Stage of Development

Available for demonstration

## Comments Regarding Stage of Development

Not interested in purely academic approach in an early stage.

## IPR Status

Secret Know-how, Patent(s) applied for but not yet granted, Patents granted, Granted patent or patent application essential

## Comment Regarding IPR status

Existing IP preferred. Further IP will be explored if joint-development is required.

## Keywords

### Technology

|          |  |
|----------|--|
| 01003008 | Data Processing / Data Interchange, Middleware |
| 01003012 | Imaging, Image Processing, Pattern Recognition |
| 01003016 | Simulation                                     |
| 02003006 | Prototypes, trials and pilot schemes           |

### Market

|          |   |
|----------|---|
| 08001009 | Speciality/performance materials: producers and fabricators |
| 08001014 | Lubricants and functional fluids                            |
| 08001015 | Other speciality materials                                  |
| 08001019 | Speciality/performance chemicals                            |

## 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

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### Email

mariad.guillen.ruiz@juntadeandalucia.es

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**Open for EOI :**   **Yes**

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## Dissemination

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### Relevant Sector Groups

Materials

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## Client

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### Type and Size of Organisation Behind the Profile

Industry >500 MNE

### Year Established

0

### Already Engaged in Trans-National Cooperation

Yes

### Languages Spoken

English

### Client Country

Germany

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## Partner Sought

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### Type and Role of Partner Sought

The company is open to partners worldwide and partnership with companies and research units in the framework of a joint venture, license or research cooperation agreement. The suitable form of cooperation depends on the kind of development stage and usability of the suggested tools.

The tasks of the partner is the conduct of the cleaning process, and if necessary the research and development of the requested technology.

### Type and Size of Partner Sought

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

### Type of Partnership Considered

- License agreement
- Joint venture agreement
- Research cooperation agreement

## Technology Request

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# Looking for a manufacturer of tungsten shielding elements.

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### Summary

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*A Swiss intergovernmental organization / research centre is looking for supplier of around 3000 shielding elements made from Tungsten Heavy Alloy (WHA) with low magnetic permeability. The partner sought for a manufacturing agreement will be able to manufacture and deliver the shielding elements according to the tolerances listed.*

|                        |   |
|------------------------|---|
| <b>Creation Date</b>   | 16 November 2018  |
| <b>Last Update</b>     | 23 November 2018  |
| <b>Expiration Date</b> | 24 November 2019  |
| <b>Reference</b>       | TRCH20181116002   |
| <b>Public Link</b>     | <a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/8dffe29d-b6d4-46ff-a32f-fa641317feed">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/8dffe29d-b6d4-46ff-a32f-fa641317feed</a> |

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### Details

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#### Description

The accelerator currently used by the Swiss NGO is installed in a 27 km circumference tunnel, about 100 m underground. Its design is based on superconducting twin-aperture cryo-magnets which operate in a superfluid helium bath at 1.9 K.

A project is running with the aim to upgrade the collider after 2020-2025 in order to maintain scientific progress and exploit its full capacity. By increasing its peak luminosity by a factor five over nominal value it will be able to reach a higher level of integrated luminosity, nearly ten times the initial design target. To this aim, the research centre is exploring new beam configurations and new advanced technologies in the domain of superconductivity, cryogenics, rad-hard materials, electronics and remote handling.

New beam screens are being designed for the beam apertures of the new cryo-magnets to ensure the required beam aperture while maintaining the ultra-high beam vacuum.

The beam screens will be equipped with tungsten heavy alloy shielding elements to intercept collision debris from the experiments, in order to minimise the heat load to the 1.9 K cryogenic system.

The Swiss NGO is looking for partners able to fulfil a manufacturing agreement for these types of tungsten shielding elements, according to the specifications detailed in the following and to drawings that will be provided separately.

## Technical Specification or Expertise Sought

The chemical composition shall be in accordance with the following parameters:

Min W : 95% (The minimum percentage of tungsten shall be respected to ensure the efficiency of the shielding elements)

Max Cu+Ni : 5% (The percentage of copper and nickel shall be respected to ensure the mechanical properties)

Max Co : 0.1% (The percentage of cobalt shall not be exceeded to limit the residual radioactivity)

Max Fe : 0.003% (The maximum percentage of iron shall be respected to ensure the magnetic properties stipulated below)

Magnetic permeability of the shielding element should be

- At 60 K and  $1 \times 10^6$  A/m : 1.0015

- At 60 K and  $6 \times 10^6$  A/m : 1.0005

The finished shielding elements shall not present visible voids and shall be exempt from cracks. The density shall be  $18.05 \pm 0.3$  kg/dm<sup>3</sup>.

The mechanical properties shall be according to the following:

Tensile strength Rm min 700 MPa

Yield stress Rp0.2% min 600 MPa

Elongation at break A5 min. 5%

Hardness HRC  $\leq 34$

Use of machining coolants/lubricants shall be subject to the Swiss organisation prior approval. Only halogen-free and silicone-free products are allowed.

Wire erosion in an aqueous solution is allowed provided measures are taken to avoid Zn containing residues on the components. Wire erosion in oil is not allowed since the oil residues cannot be sufficiently removed during cleaning.

In order to limit the outgassing rate, the finished shielding elements shall undergo an outgassing treatment under vacuum at  $\geq 700^\circ$  C.

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## Keywords

### Technology

|          |   |
|----------|---|
| 01002006 | Magnetic and superconductor materials/devices             |
| 02002010 | Machining (turning, drilling, moulding, planing, cutting) |
| 02007010 | Metals and Alloys   |

### Market

|          |  |
|----------|--|
| 08001009 | Speciality/performance materials: producers and fabricators          |
| 08001012 | Speciality metals (including processes for working with metals)      |
| 08003001 | Machine tools, other metal working equipment (excl. numeric control) |

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## Network Contact

## Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

## Contact Person

Maria Dolores Guillén Ruiz

## Phone Number

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## Email

mariad.guillen.ruiz@juntadeandalucia.es

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**Open for EOI :**    **Yes**

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## Client

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### Type and Size of Organisation Behind the Profile

R&D Institution

### Year Established

0

### Already Engaged in Trans-National Cooperation

No.

### Languages Spoken

English  
French

### Client Country

Switzerland

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## Partner Sought

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### Type and Role of Partner Sought

The partner sought is qualified in the manufacturing and testing of tungsten heavy alloy (WHA) parts.

The tasks to be performed by the partner sought:

- Production of the WHA material (forming and sintering);
- Machining of the components according to drawings provided by the Swiss research centre;
- Certificates of each sintering lot demonstrating the characteristics stated in the profile;

- Certificates of the finished shielding elements demonstrating compliance with the drawings;
- Packing of the components;
- Shipping to Switzerland if required.

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

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

## **Type of Partnership Considered**

Manufacturing agreement



## Technology Request

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# Partners sought for the development of high-performance cellulosic fibre materials

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### Summary

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*A German company specialised in viscose specialty fibres is looking for partnerships to develop cellulosic viscose fibres with superior mechanical and chemical properties for applications in functional apparel textiles, technical nonwovens, hygiene products and specialty papers. Research and technical cooperation agreements are sought.*

|                        |   |
|------------------------|---|
| <b>Creation Date</b>   | 13 December 2018  |
| <b>Last Update</b>     | 17 December 2018  |
| <b>Expiration Date</b> | 18 December 2019  |
| <b>Reference</b>       | TRDE20181213001   |
| <b>Public Link</b>     | <a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/fb77243a-a639-4920-af2a-2c688d80bde1">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/fb77243a-a639-4920-af2a-2c688d80bde1</a> |

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### Details

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#### Description

The German company is a leading specialty manufacturer of viscose fibres and provides customers worldwide. It has a strong focus on innovative products and novel technologies, where viscose fibres can play an important role.

Cellulosic materials are based on renewable raw materials and are completely biodegradable. Due to their structural properties, they are very versatile and are therefore applied in numerous applications ranging from fashion, hygiene and medical products to nonwoven fabrics. Intrinsic properties of cellulosic materials are a good moisture management and a high water absorption capacity of about 80%.

Compared to synthetic fibre materials, cellulosic fibres have a high specific weight of about 1,5 g/cm<sup>3</sup> (grams per cubic centimetre). There are additional textile, technical and hygiene applications for cellulosic fibres with a lower specific weight of about 1,1 g/cm<sup>3</sup>. Currently, the company is seeking partners to jointly develop cellulosic viscose fibres with a lower specific weight. The fibres should retain the physical and chemical properties needed to process them into textile and nonwoven structures.

An approach towards an improvement of the cellulosic viscose fibres could be the development of composite materials by incorporating porous, at best biodegradable, particles into the cellulose matrix during the production process.

Research cooperation agreements are sought to start research towards new applications of

viscose fibres. Technical cooperation agreements are sought to push forward the development of state-of-the art viscose fibres towards composite materials with superior mechanical and chemical properties.

## Technical Specification or Expertise Sought

Technical requirements regarding the composite material to be developed:

- i) Particle diameters of D50 = 2 µm, D90 = 5 µm und D100 = 10 µm are required (e.g. D50 is the diameter at which 50% of the sample's mass is comprised of particles with a diameter less than this value).
- ii) An additive content of < 10 weight % should reduce the density of the fibre materials from 1,5 g/cm<sup>3</sup> (pristine cellulose) to about 1,1 g/cm<sup>3</sup>.
- iii) Ideally, the sought porous materials are bio-based and/or biodegradable.
- iv) Chemical resistance of the particles in an aqueous medium at a pH of 14 over several minutes. The dispersed particles must not agglomerate or decompose.

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## Keywords

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### Technology

|          |                            |
|----------|----------------------------|
| 02007005 | Composite materials        |
| 02007013 | Paper technology           |
| 02007018 | Advanced Textile Materials |
| 02007020 | Biobased materials         |
| 02007023 | Hybrid materials           |

### Market

|          |  |
|----------|--|
| 08001015 | Other speciality materials                               |
| 08001023 | Other chemicals and materials (not elsewhere classified) |

### NACE

|          |                            |
|----------|----------------------------|
| C.32.9.9 | Other manufacturing n.e.c. |
|----------|----------------------------|

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## Network Contact

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### Issuing Partner

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**Open for EOI :**   **Yes**

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**Client**

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**Type and Size of Organisation Behind the Profile**

Industry 250-499

**Year Established**

0

**Already Engaged in Trans-National Cooperation**

Yes

**Languages Spoken**

English  
German

**Client Country**

Germany

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**Partner Sought**

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**Type and Role of Partner Sought**

In particular, cooperation partners are sought who develop and/or distribute suitable porous materials, preferably particles, and who are willing to jointly develop marketable composite materials. Test batches can be produced in the facilities of the German company. The potential partner should possess expert skills in particle technologies. A knowledge in fibre technologies is a plus.

Research cooperation agreements are sought to start research towards new applications of viscose fibres. Technical cooperation agreements are sought to push forward the development of state-of-the art viscose fibres towards composite materials with superior mechanical and chemical properties.

**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

Technical cooperation agreement  
Research cooperation agreement

## Technology Request

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# Recycling company from Greece is looking for a glass label removal solution for bottles under a technical agreement

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### Summary

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*A medium-sized Greek company is active in the field of solid waste recycling. The company is looking for a suitable technology for removing labels from glass surfaces, under commercial agreement with technical assistance.*

|                        |   |
|------------------------|---|
| <b>Creation Date</b>   | 10 December 2018  |
| <b>Last Update</b>     | 30 December 2018  |
| <b>Expiration Date</b> | 31 December 2019  |
| <b>Reference</b>       | TRGR20181210001   |
| <b>Public Link</b>     | <a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/88ffbc3c-22e7-4072-bd7f-bbb9f0a115c4">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/88ffbc3c-22e7-4072-bd7f-bbb9f0a115c4</a> |

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### Details

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#### Description

A medium-sized Greek company is active in the field of recycling since 1994. The company undertakes collection and the management of solid waste for municipalities, large companies etc. The company is dealing with the sorting of recyclable solid waste regarding paper and glass. The company aims to recycle the packaging materials as well as to the promotion of recyclable materials in Greece and abroad, like paper industries, plastic industries, metal industries, etc.

In the phase of optical separation, glass-tagged pieces go to waste, because the system recognizes the labeled glass pieces as foreign bodies. A technological solution is sought in which it will be possible to remove labels and glue residues from the glass without altering its composition, in order to allow further processing.

The Greek company would like to cooperate with technical providers of specialized recycle equipment under a commercial agreement with technical cooperation.

#### Technical Specification or Expertise Sought

The Greek SME is looking for a technical or technological solution of removing labels of glass surfaces.

Especially, the proposed method should provide for removing labels and glue residues from glass (glass bottles, vases, etc.) by cleaning or burning and for glass surfaces that are not

necessarily flat.

## Stage of Development

Already on the market

## Comments Regarding Stage of Development

## IPR Status

Secret Know-how

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## Keywords

### Technology

02007007

Glass

10003004

Recycling, Recovery

### Market

08004002

Chemical and solid material recycling

### NACE

C.32.9.9

Other manufacturing n.e.c.

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## Network Contact

### Issuing Partner

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**Open for EOI :**    **Yes**

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## Dissemination

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### Relevant Sector Groups

Bio Chem Tech  
Environment  
Materials  
Nano- and Microtechnologies

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## Client

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### Type and Size of Organisation Behind the Profile

Industry SME 50-249

### Year Established

1994

### Already Engaged in Trans-National Cooperation

No.

### Languages Spoken

English  
Greek

### Client Country

Greece

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## Partner Sought

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### Type and Role of Partner Sought

The Greek company is looking for a suitable partner company to provide a technological solution for removing labels from glass surfaces under commercial agreement with the necessary technical assistance. The partner could be an integrator or a producer of suitable equipment for this process.

### Type and Size of Partner Sought

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

### Type of Partnership Considered

Commercial agreement with technical assistance

## Technology Request

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# French company seeking rectifiers to be used in a new light and environmentally friendly aircraft

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### Summary

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*A French SME working in the aircraft domain is looking for rectifiers, with a maximum weight of 4 kg, to be integrated in a new light and environmentally friendly aircraft. Technical cooperation, license or manufacturing agreement is sought with industry or technical centers.*

|                        |   |
|------------------------|---|
| <b>Creation Date</b>   | 16 October 2018   |
| <b>Last Update</b>     | 11 December 2018  |
| <b>Expiration Date</b> | 12 December 2019  |
| <b>Reference</b>       | TRFR20181009001   |
| <b>Public Link</b>     | <a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/205154fd-8f68-4fa5-94c6-bb22d4aeb681">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/205154fd-8f68-4fa5-94c6-bb22d4aeb681</a> |

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### Details

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#### Description

The French SME working in the aircraft domain needs rectifiers that can be used in a new light and environmentally friendly aircraft. Innovation in the aircraft lies in the materials and the hybridization of energy sources. The power of the rectifier compared to its weight is a challenge. Integrating the rectifier and the alternator in the same box will allow a space-saving and a real optimisation.

Technical cooperation, license or manufacturing agreement is sought with a supplier that can offer products that perhaps don't immediately comply 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 rectifier.

The production rate corresponds to 250 units per year for the aeronautical market.

The product must be certified according to ASTM (American Society for Testing and Materials) F-2840 within 30 months.

The supplier will be subject to controls or audits operated by the French company and the civil aviation authorities. It is not requested that the company be a production or a design organisation in accordance with the EASA (European Aviation Safety Agency) Part-21 but it would be a bonus.



## Technical Specification or Expertise Sought

The rectifier must have these following characteristics. They must be considered as starting point of the project in order to study and optimise it and not a rigid work base.

- conversion AC to HVDC 500V-1000V (variable according to battery state of charge)
- voltage conversion between alternator and HVDC bus
- voltage and current regulation : either to follow the HVDC bus voltage set by the battery and current set by the BMS or to regulate them upon battery/BMS failure
- weight : 4 kg
- efficiency : 99%
- volume : 3L
- MTBF (Mean Time Between Failures) : 100,000h
- cooling : water or air
- power : 90 kW
- number of pole and phase : defined together with the alternator,
- monitoring and safety devices to protect against overheating, over voltage, over current, etc...
- data output for pilot, mechanics and aircraft systems
- CAN (controller area network) bus Interface,
- Full built-in test with status output on CAN bus,
- control the alternator,
- integrate a starter mode,
- isolated from the airframe,
- the supplier shall indicate compliance with Ingress Protection standards
- provided with CAD (computer-aided design) step files,
- provided with full data sheet and interface description,
- a combined alternator rectifier would be a big bonus,
- dual channel would be a bonus,
- coolant temperature : 90°C,
- rectifier capability to regulate the coolant temperature would be a bonus.

The rectifier 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 %  
Flying in rain (Waterproofing of the electric connection).
- altitude : 0 to 20,000 ft/ 0 to 7,000 m

## Stage of Development

Concept stage

## IPR Status

Secret Know-how, Patent(s) applied for but not yet granted, Patents granted, Granted patent or patent application essential

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## Keywords

## Technology

02008001

Air Transport

02009017 Electrical supply system  
02009026 Energy supply system

## Market

09001001 Airlines  
09001005 Motor vehicles, transportation equipment and parts

## NACE

C.30.3.0 Manufacture of air and spacecraft and related machinery

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## Network Contact

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### Issuing Partner

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

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## Dissemination

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### Relevant Sector Groups

Aeronautics, Space and Dual-Use Technologies

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## Client

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### Type and Size of Organisation Behind the Profile

Industry SME <= 10

### Year Established

0

Ref: TRFR20181009001

## Already Engaged in Trans-National Cooperation

No.

## Languages Spoken

English

French

## Client Country

France

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## Partner Sought

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### Type and Role of Partner Sought

Type of partner sought : industry, technical center

Role : to be able to deliver the requested rectifier or present the ability to develop it under 18 months

### 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

License agreement

Manufacturing agreement

Technical cooperation agreement

## Research & Development Request

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# H2020 partners sought: CE-SC5-07-2018-2019-2020: Raw materials innovation for the circular economy

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### Summary

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*A Macedonian Institute, active with R&D, is preparing a project proposal under the Work Program topic: CE-SC5-07-2018-2019-2020: Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes. The Project aims at development and demonstration in large scale (several cities across Europe) of an innovative model of use of recycled electronic waste (provided from end of life products such as computers and TV sets), as raw material in production of c*

|                        |   |
|------------------------|---|
| <b>Creation Date</b>   | 19 December 2018  |
| <b>Last Update</b>     | 27 December 2018  |
| <b>Expiration Date</b> | 01 February 2019  |
| <b>Reference</b>       | RDMK20181219001   |
| <b>Public Link</b>     | <a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/814ca5c5-1b33-4ac0-bc21-8c19eec63339">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/814ca5c5-1b33-4ac0-bc21-8c19eec63339</a> |

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### Details

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#### Description

The Project aims at development and demonstration in large scale (several cities across Europe) of an innovative model of use of recycled electronic waste (provided from end of life products such as computers and TV sets), as raw material in production of concrete.

The project title is: Innovative Circular Economy Model of Use of Recycled Waste as Raw Material in Construction Industry - InnoCERMAC.

The innovation is based on previous wide research and laboratory experiments and tests for confirmation of mechanical and chemical properties of concrete mixtures wherein fine aggregate of natural sand has been replaced by glass powder made of selected and sorted electronic waste.

The project will demonstrate a cutting edge systematic solution integrating major components:

- 1) advanced technologies of production of concrete, based on alternative raw materials and circular economy,
- 2) providing reliable, long-term and sustainable access to recycled materials which can replace natural materials in concrete production,
- 3) advanced IT technologies for improvement of application of recycling schemes in one of the most productive sectors,
- 4) carbon footprint reduction,
- 5) market confirmation of industrial research and innovation,

- 6) increasing the recovery rate in the construction materials supply chain,
- 7) innovative approaches in electronic waste collection, sorting, recycle and reuse.

The model will encompass and pilot several innovation in various fields:

- 1) novel technologies for concrete production,
- 2) innovative approaches in classification and recycling of electronic waste provided from end of life products,
- 3) new marketing and business models,
- 4) extensive use of modern IT technologies (e.g. BIM, LCA tools, Structural Health Monitoring, etc.) for optimization of a) civil structures' total production costs and benefits, b) their overall energy performance and c) life cycle effectiveness,
- 5) increasing recovery rate of construction materials

Partners profile sought:

- 1) research institutions in the field of construction materials
- 2) electronic waste collecting, processing, recovery and reuse companies and suppliers
- 3) manufacturers of concrete mixtures and prefabricated elements
- 4) design and consultancy companies
- 5) contractors / construction companies
- 6) municipalities for piloting
- 7) clients / building owners, investors and operators
- 8) business and marketing development institutions
- 9) SMEs in architecture, engineering and construction industry

- Official call Deadline: 19 February 2019
- Internal deadline for EOIs: 1 February 2019

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## Keywords

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### Technology

- |          |   |
|----------|---|
| 02006006 | Construction engineering (design, simulation) |
| 11002    | Education and Training                        |

### Market

- |          |                                     |
|----------|-------------------------------------|
| 09009001 | Conglomerates and holding companies |
|----------|-------------------------------------|

### NACE

- |          |   |
|----------|---|
| M.72.2.0 | Research and experimental development on social sciences and humanities |
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## Network Contact

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### 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

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

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**Client**

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**Type and Size of Organisation Behind the Profile**

R&D Institution

**Year Established**

2012

**Turnover**

<1M

**Already Engaged in Trans-National Cooperation**

Yes

**Client Country**

Macedonia, The former Yugoslav Republic of

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**Partner Sought**

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**Type and Role of Partner Sought**

The Institute is looking for R&D institutions, designers and manufacturers of technological equipment applicable for the described project concept and purpose, as well as universities and SMEs that have experience in research projects. The partners sought should have relevant experience, as well as potential and interest for sharing the project objective and innovation focus and for making a significant contribution to reaching the project goals. The potential partners should be associations and individual SMEs engaged in design and construction, Universities or Educational centers for continuous professional development of engineers. The prospective partners are encouraged to submit proposals for further development of the project concept.

**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

## Program - Call

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### Framework Program

H2020

### Call title and identifier

Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

ID: CE-SC5-07-2018-2019-2020

### Coordinator Required

No

### Deadline for EOI

01 Feb 2019

### Deadline of the Call

19 Feb 2019

### Weblink to the Call

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-sc5-07-2018-2019-2020;freeTextSearchKeyword=;typeCodes=1;statusCodes=31094501,31094502;programCode=H2020;programDivisionCode=31047972;focusAreaCode=null;cr>

### Project Title and Acronym

Innovative Circular Economy Model of Use of Recycled Waste as Raw Material in Construction Industry - InnoCERMAC

## Research & Development Request

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

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### Summary

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

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

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### Details

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#### Description

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

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

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

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



its associated infrastructure.

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

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

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

EOI Deadline 31st December 2018

Call Deadline 25th April 2019

## Advantages and Innovations

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

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

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

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

## Technical Specification or Expertise Sought

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

Role: Create an urban lab to test new solutions and business models

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

## Stage of Development

Ref: RDES20181128001

Proposal under development

## IPR Status

Granted patent or patent application essential

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## Keywords

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### Technology

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

### Market

|          |                                     |
|----------|-------------------------------------|
| 03002    | Batteries                           |
| 03003    | Power Supplies                      |
| 03004003 | Other electronics related equipment |

### NACE

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

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## Network Contact

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### 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

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**Open for EOI :**    **Yes**

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## Dissemination

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### Relevant Sector Groups

Automotive, Transport and Logistics

### Restrict Dissemination to Specific Countries

Belgium, France, Germany, Netherlands,

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## Client

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### Type and Size of Organisation Behind the Profile

Industry SME <= 10

### Year Established

2011

### Turnover

<1M

### Already Engaged in Trans-National Cooperation

Yes

### Languages Spoken

English  
Spanish

### Client Country

Spain

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## Partner Sought

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### Type and Role of Partner Sought

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

Role:

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

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

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

Role:

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

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

>500

### **Type of Partnership Considered**

Research cooperation agreement

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## **Program - Call**

### **Framework Program**

Smart, green and integrated transport

### **Call title and identifier**

Work Program: "Smart, Green and Integrated Transport"

Call: Building a low-carbon, climate resilient future

Topic: LC-GV-03-2019 User-centric charging infrastructure (Innovative Action 70%)

### **Submission and evaluation scheme**

Single-stage

### **Anticipated Project Budget**

8 - 15 million €

### **Coordinator Required**

No

### **Deadline for EOI**

28 Feb 2019

### **Deadline of the Call**

22 Oct 2019

### **Project Duration**

22 week(s)

### **Weblink to the Call**

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