HORIZON 2020

- SOCIETAL CHALLENGES: 1 offers
- EUROPEAN INNOVATION COUNCIL: 2 offers

OTHER EUROPEAN PROGRAMMES

- EUREKA Eurostars: 9 offers (3 new)
- EIT Digital: 1 offer (1 new)
- M-era.Net Call 2020: 1 offer (1 new)

TECHNOLOGY COOPERATION

- Technology Requests: 3 offers (3 new)
<table>
<thead>
<tr>
<th>ID</th>
<th>RDUK20200211001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Call</td>
<td>H2020 SU-BES02-2018-2019-2020: Technologies to enhance border and external security</td>
</tr>
<tr>
<td>Title</td>
<td>UK company is seeking blockchain and mobile app developers to join project for optimized ‘walk through’ airport process</td>
</tr>
</tbody>
</table>
| Abstract | Most of the world’s hub airports i.e. those processing more than 40 million passengers per annum currently face passenger growth levels that likely require continuous physical expansionist development as passenger numbers continue to trend inexorably upward.  
A UK company & researcher seek consortium partners to apply for H2020 funding to develop a comprehensive, new digital re-engineering paradigm for airline passengers and operational stakeholders, enabling genuine Terminal ‘walk-through’ capability.  
A UK researcher and company have developed a new, operationally feasible process to achieve this, based upon an existing and viable concept and enabled through detailed development of disruptive and other developing technologies e.g. blockchain DLT (digital ledger technology) and AI (artificial intelligence).  
The system is able to meet the challenges that require appropriate solutions across a mix of secure process activities. And vitally, for all operational stakeholders and equipment vendors, embrace this activity working with concepts and technological expertise, taking ownership as matters reach testing and delivery. |
| Partners Sought | Type of Partners sought:  
• SMEs and larger companies  
Specific area of activity:  
• Mobile app & Blockchain developer  
Task to be performed:  
• Co-development of processes allowing non-human contact processing of airline passengers  
• Development of an app to capture iris biometric data |
| Link     | Full Version: RDUK20200211001 |
Belgian university seeks support for a development tool for non-programmers to facilitate implementation of data acquisition, processing and analysis pipelines

The Belgian software languages lab, hosted by a Belgian university and coordinator of the project, has expertise in developing software engineering tools (e.g. programming languages, libraries, ...) that ease the development of complex software systems. One of these tools developed in recent years is a development platform that enables non-programmers to implement their own data acquisition, processing and analysis systems (DAPAS). The uniqueness of the platform is that it offers online visual tools that allow both non-professional users and specialists alike to build their own DAPAS.

With this fast track to innovation project, the lab is aiming to bring its technology to the market in the form of a spin-off company. A first task consists in further developing the platform from a technological perspective. A second task consists in developing the platform from a business perspective (e.g. setting up pilot projects with lead clients, business development, etc.).
**ID** | RDUK20200320001  
---|---
**Call** | H2020 EIC-SMEInst-2018-2020: SME instrument  
---|---
**Title** | UK company is seeking subcontractors to support electric vehicle charging stations  
---|---
**Abstract** | Despite the EU directive from 2014, there are still very few charging points for EVs in the UK and Europe. The UK company is applying for EIC Accelerator funding to create EV charging stations that will hold 40 cartridges per unit (expandable) to be able to compete with the convenience of petrol stations. This is an increase in capacity over the Chinese system that only caters for cars, and will additionally offer a Pay As You Drive payment system, to reduce the cost of purchasing EVs. For that the company is seeking electricity generators, battery companies and vehicle manufacturers to work alongside the project.  
---|---
**Partners Sought** | Type of Partners sought:  
- SMEs  
Specific area of activity:  
- Energy suppliers  
- Battery makers  
- Car manufacturers  
Task to be performed:  
- Subcontracting work to support the project, which is to develop a new network of EV charging stations throughout Europe  
---|---
**Link** | Full Version: RDUK20200320001  
---|---
**Deadline** | Internal Deadline: 12 May 2020 — Deadline of the call: 19 May 2020
**ID**: RDKR20191231001

**Call**: EUREKA Eurostars

**Title**: Korean company is seeking partners to co-develop “AI-based real-time bidirectional massive IoT technology” for the advanced LPWA (Low-power Wide-area)

**Abstract**: A Korean company expertise in wireless communication and provides IoT-based total solution was established in 2000 as the nation’s first and only company possessing original technology for DSRC (dedicated short-range communication) systems.

The company’s DSRC technology and Electronic toll collection system has already proved its reliability with many references. AMI Platform, on the other hand, represents IoT-based gas and water metering and real-time monitoring service where the company is starting to expand its business to mainly focusing in South America, Southeast Asia and Central Asia.

Now the company is seeking a partner to co-develop “AI-based bidirectional massive IoT technology” for advanced LPWA (Low-power Wide-area)

**Partners Sought**

- SMEs and larger companies
- R&D Institutions
- Universities

**Specific area of activity**:
- Experienced techniques in advanced AI algorithm (which includes MAC protocol & service for wireless IoT)
- Networks in Spain France, Sweden, Switzerland and England for application

**Tasks to be performed**:
- Development of a wireless modem, a MAC (Medium Access Control), a gateway for wireless IoT

**Link**: Full Version: RDKR20191231001

**Deadline**: Internal Deadline: 31 May 2020 — Deadline of the Call: 05 Dec 2020
# Belgian SME looks for partners to further develop and manufacture their ultra-thin tiles made of natural stone

**Abstract**

A Belgian SME has developed a process to manufacture ultra-thin tiles made of natural stone with high impact resistance. Using plain stone in applications such as buildings, transport or furniture and devices is nowadays unexploited due to the high costs, weight and low impact resistant of the current available materials.

The product is currently at demonstration phase. The goal of the project will be to develop this innovative product until commercialization stage. That means to optimize the production process and to complete the product characterization for different applications. They are looking for partners to apply for the next Eurostars-Eureka call.

They look for an ultra-thin stone composites manufacturer, SME or large company, with an ambition and the capability to innovate willing to establish a research cooperation agreement.

In addition, under a second ID, they look for a developer using ultra-thin stones in building, transport or furniture and devices applications for research cooperation.

**Partners Sought**

Type of Partners sought:

- SMEs and larger companies

Specific area of activity:

- Producer of ultra-thin stone manufacturer
- Developer using ultra-thin stones in building, transport or furniture and devices applications

Tasks to be performed:

- Production of testing samples (cut thin stone slabs and glue it to the new backing material)
- Test of the ultra-thin stones and contribution to the homologations for their application system

**Link**

Full Versions: [RDBE20200407001](#) & [RDBE20200408001](#)

**Deadline**

Internal Deadline: 30 Jun 2020 — Deadline of the Call: 03 Sep 2020
### ID
- RDHR20200415001

### Call
- EUREKA Eurostars

### Title
- Croatian SME is looking for partners to develop a specialized web portal for the health, prevention or education sector

### Abstract
The Croatian SME is an innovative start-up looking for a new innovative solution in different aspects of life. Until now, the SME has launched an interactive web portal specialized in finding temporary, seasonal and part-time jobs or workers.

By researching other key needs for modern society, the SME has developed an innovative concept for archiving and managing personal medical documentation. The project is in the design phase with all key roles and functionalities. The SME has conducted documentation analysis as well as market research. The end users of the portal are the patients globally.

The SME is searching for a partner who can help to define and set up health-related features that can lead to the launch of a successful product, and to submit a project proposal under the Eurostars programme.

### Partners Sought
- **Type of Partners sought:**
  - SMEs and larger companies
  - R&D Institutions
  - Universities

- **Specific area of activity:**
  - Health, prevention, education or similar

- **Tasks to be performed:**
  - Advisory based on knowledge they already have or on a newly conducted research results

### Link
- Full Version: RDHR20200415001

### Deadline
- Internal Deadline: 06 Aug 2020 — Deadline of the Call: 03 Sep 2020
### Title
A Korean electronical technology institute is looking for partners to develop acoustic levitator for powder ALD (atomic layer deposition) process

### Abstract
The Korean institute is a leading R&D institute specializing in electronics and IT under the Korean Ministry of Trade, Industry and Energy. It commits to grow together with companies in the global market, focusing on more real-world applications beyond the lab.

Atomic layer deposition (ALD) is a thin film deposition technology based on sequential use of a gas phase chemical process. The ALD process uses two chemicals which are generally called precursors. These precursors are deposited on the substrate sequentially and react to form a thin dense film.

The R&D institute has built a good base of ALD application in smart windows and thin film batteries based on previous study. It has been successful to form vanadium oxide films on glass substrates by using tetrakis (ethylmethylalmino) vanadium (TEMAV) and tris (dimethylamino) cyclopentadienyl vanadium.

The main goal of the joint research is to fabricate powder (particles) by atomic layer deposition process, which will be using precursors, with high performance and thin layers. The fabricated powder (particles) will be used for automobile and wearable device applications.

### Partners Sought
**Type of Partners sought:**
- SMEs and larger companies
- R&D Organisations
- Universities

**Specific area of activity:**
- Experience in acoustic levitator technology

**Tasks to be performed:**
- Development of an acoustic levitator for ALD process

### Link
Full Version: RDKR20200305001

### Deadline
Internal Deadline: 01 May 2020 — Deadline of the Call: 27 Feb 2021
<table>
<thead>
<tr>
<th>ID</th>
<th>RDFR20200205001</th>
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</thead>
<tbody>
<tr>
<td>Call</td>
<td>EUREKA Eurostars</td>
</tr>
<tr>
<td>Title</td>
<td>A French SME is seeking industrial and research partners to set-up a novel system for recycling destructured data</td>
</tr>
<tr>
<td>Abstract</td>
<td>A multinational consortium, coordinated by a young and innovative French SME, targets destructured graphic data with the goal of developing an innovative data processing tool that is able to restructure and recycle non-structured data. It should be used for comparing destructured files of the same type, comparing heterogenous files, restructuring an unstructured file, indexing all textual and graphic information, searching for documents, classifying and organising documents.</td>
</tr>
<tr>
<td>Partners Sought</td>
<td>Type of Partners sought:</td>
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<tr>
<td></td>
<td>• SMEs and larger companies</td>
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<tr>
<td></td>
<td>• R&amp;D Organisations</td>
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<tr>
<td></td>
<td>Specific area of activity:</td>
</tr>
<tr>
<td></td>
<td>• Laboratory in the field of artificial intelligence</td>
</tr>
<tr>
<td></td>
<td>• Companies with thematic/problematic of restructuring data as end-users</td>
</tr>
<tr>
<td></td>
<td>• Start-ups with problems in finding patterns similar to the consortium</td>
</tr>
<tr>
<td>Tasks to be performed:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Development of a novel data restructuring tool that will be mainly based on artificial intelligence technologies</td>
</tr>
<tr>
<td></td>
<td>• Laboratory: Working on the problem of graphical restructuring of the information contained in vector graphics files</td>
</tr>
<tr>
<td></td>
<td>• Companies: Definition of tools from a potential user’s point of view</td>
</tr>
<tr>
<td></td>
<td>• Start-ups: Pool research work</td>
</tr>
<tr>
<td>Link</td>
<td>Full Version: RDFR20200205001</td>
</tr>
<tr>
<td>Deadline</td>
<td>Internal Deadline: 01 Jul 2020 — Deadline of the Call: 03 Sep 2020</td>
</tr>
</tbody>
</table>
**ID** | RDKR20191216001
---|---
**Call** | EUREKA Eurostars
**Title** | Seeking partners to cooperate development of solar high-reflective paint

**Abstract**
A Korean company has been focused on high-tech materials for display industry and materials of automobile component since it was established in 2001. The company develops paint which can reflect solar light.

The project aims to develop a solar high-reflective paint to increase energy efficiency in buildings. This company wants to find partners in the related field to submit a proposal to Eureka and Eurostars2 under research cooperation agreement.

The paint with highly reflective solar energy could be supportive to decrease the energy consumption in building especially in summer.

This company agreed on a partnership with a Korean university, and it is expected that the research would take a period of 3 years.

For solar heat, the reflection from the paint would be more than 80%.

**Partners Sought**
- SMEs
- R&D Organisations
- Universities

**Specific area of activity:**
- Coating material, building energy efficiency modeling

**Tasks to be performed:**
- Improvement of technical functions to be applicable on building energy efficiency modelling

**Link**
Full Version: RDKR20191216001

**Deadline**
### Title
Turkish company is looking for partners for a project on custom made biodegradable craniomaxillofacial implants

### Abstract
An innovative Turkish company specialized in additive manufacturing and medical 3D printing focuses on custom made implant production for craniomaxillofacial patients. Using custom made implants creates biodegradable alternatives that can deliver benefits in a more controlled fashion at the defect site.

Opportunities to recover any bone loss with an implant that will turn into patients own bone tissue is the main innovation that the company offers. This innovation will also prevent infection risks and accelerate the recovery periods.

### Partners Sought
Type of Partners sought:
- SMEs
- R&D Organisations
- Universities

Specific area of activity:
- Custom made implants
- Additive manufacturing process development
- Preclinical/clinical trial evaluation of the medical devices
- Medical device directive (MDD) and/or medical device regulation (MDR)
- Tissue engineering
- Orthopaedics

Tasks to be performed:
- Share work on custom made implants for craniomaxillofacial patients

### Link
Full Version: RDTR20191129001

### Deadline
Internal Deadline: 03 Jul 2020 — Deadline of the Call: 03 Sep 2020
**Title**
Looking for partners for developing precursors for ALD (atomic layer deposition) process

**Abstract**
A leading R&D institute specializing in electronics and IT under the Korean Ministry of Trade has built a good base of ALD application in smart windows and thin-film batteries through the previous study.

Atomic layer deposition (ALD) is a thin film deposition technology using sequential use of a gas phase chemical process. The ALD process uses two chemicals typically called precursors. These precursors are deposited on the substrate sequentially and reacted to form a thin dense film. Compared to conventional thin film processes it has the advantage to grow, form materials uniformly with high precision on arbitrarily complex and large substrates. As the deposited layer can be finely controlled its perspective is also seen in scaling down microelectronic devices according to Moore’s law.

Currently, in areas of semiconductor, various precursors have been studied to form Al2O3, ZrO2, and HfO2 materials.

The main goal of the joint research is to create high-performance thin layers using precursors for automobile and wearable device applications.

**Partners Sought**

<table>
<thead>
<tr>
<th>Type of Partners sought:</th>
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<tbody>
<tr>
<td>SME or larger companies</td>
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<tr>
<td>R&amp;D Institutions</td>
</tr>
<tr>
<td>Universities</td>
</tr>
</tbody>
</table>

**Specific area of activity:**

- Nanotechnologies related to electronics & microelectronics

**Tasks to be performed:**

- Development of pre-cursor material for ALD (atomic layer deposition) process

**Link**
Full Version: RDKR20190909001

**Deadline**
Internal Deadline: 29 May 2020 — Deadline of the Call: 30 Jul 2020
### Partners sought for cooperation on battery recycling technology

**ID**

RDKR20190718001

**Call**

EUREKA Eurostars

**Title**

Partners sought for cooperation on battery recycling technology

**Abstract**

A Korean company was incorporated in 1990 and focused on development of technology applicable on power transmission and distribution system.

The company comes up with the idea of advanced technology in this field because many devices are turning into electronic products in the modern society, meaning that the demand of batteries is consistently increasing while the ratio of collection and recycling of used batteries is considerably low.

The company aims to solve the environmental problems as the use of heavy metals in the battery steadily increases and results in environmental pollution.

**Partners Sought**

**Type of Partners sought:**

- (Hightech) SMEs
- R&D Organisations

**Specific area of activity:**

- Specialized in the technology of batteries and environmental engineering at the same time

**Tasks to be performed:**

- Introduction of the technology of collecting the batteries and recycling or extracting the heavy metals in the battery through the advanced technology

**Link**

Full Version: RDKR20190718001

**Deadline**

<table>
<thead>
<tr>
<th>ID</th>
<th>RDUK20200409001</th>
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<tbody>
<tr>
<td>Call</td>
<td>EIT Digital: DIGITAL INNOVATION FACTORY</td>
</tr>
<tr>
<td>Title</td>
<td>Scottish SME seeks a European go-to-market partner in the construction sector for their Artificial Intelligence innovation</td>
</tr>
</tbody>
</table>
| Abstract     | The Scottish SME is one of the UK’s leading smart cities specialists and creators of an innovative data platform. The SME are seeking a go-to-market partner for their Artificial Intelligence (AI) innovation in the Construction sector to collaborate with for an EIT Digital funding application.  

The AI product increases the re-use of materials within large construction companies by better management and re-use of materials between sites and projects and also highlights inter-company opportunities.  

Within the project there will be opportunity for the partner to engage with the market through their own networks and those of the partners to refine the value proposition and define a marketing, sales and pricing strategy. |
| Partners Sought | Type of Partners sought: |
|                | SMEs and larger companies |
|                | Specific area of activity: |
|                | Experience in taking innovative products to the construction market in one or more European countries |
|                | Tasks to be performed: |
|                | Conduct analysis to validate the new product in identified markets |
|                | Conduct market analysis into the construction sector to determine the size of the opportunity and potential addressable market |
|                | Identify potential routes to market for the new product |
|                | Engage via our networks to determine the appetite for deployment within the project period to identify warm customers |
| Link          | Full Version: RDUK20200409001 |
| Deadline      | Internal Deadline: 30 Apr 2020 — Deadline of the Call: 07 May 2020 |
# M-era.Net Call 2020

<table>
<thead>
<tr>
<th>ID</th>
<th>RDFR20200408001</th>
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</thead>
<tbody>
<tr>
<td>Call</td>
<td>M-era.Net Call 2020: Materials for additive manufacturing</td>
</tr>
<tr>
<td>Title</td>
<td>French technology transfer centre (TTC) is looking for industrial and research partners to develop novel 3D printing feedstocks and process</td>
</tr>
<tr>
<td>Abstract</td>
<td>The additive manufacturing processes rely on many different technologies (raw materials, IT, electronic conception, laser, etc.). In this context, a French technology transfer center (TTC), specialized in technical ceramics preparation and processing, wants to respond to the M-Era.Net call. The goal is to develop a new 3D printing technology that will permit producing parts with complex geometry and accurate dimensions and in less time of printing and post-treatments. This novel technology is based on the formulation of meltable feedstock with low viscosity (mixture of low melting temperature polymers and fillers). These fillers could be ceramic or metallic powders. Preliminary work has been performed but this method needs to be improved. Three research institutes from Canada, Austria, France have joined this consortium. Now it is necessary to complete this consortium with partners having the below-mentioned skills.</td>
</tr>
</tbody>
</table>
| Partners Sought | **Type of Partners sought:**  
  - SMEs and larger companies  
  - R&D Institution  
  **Specific area of activity:**  
  - Experience in metal 3D printing  
  - Specialization in supercritical fluid extraction technology  
  - Background in software, hardware, and metrological control  
  **Tasks to be performed:**  
  - Development of a novel printable material  
  - Improvement of the debinding process  
  - Improvement of pellet-based additive manufacturing  
  - End-users to test the process in a realistic environment |
| Link        | [Full Version: RDFR20200408001](#) |
## Technology Request

<table>
<thead>
<tr>
<th>ID</th>
<th>TRNL20200407001</th>
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</thead>
<tbody>
<tr>
<td>Title</td>
<td>Dutch company is looking for solutions to make CO2 detectable</td>
</tr>
<tr>
<td>Abstract</td>
<td>The Dutch company is experienced in the development and manufacturing of products with cooling technology in cooling- and freezing installations. The use of CO2 for cooling is upcoming in refrigeration industry all over Europe. Because CO2 is tasteless, odourless and invisible it is not detectable for humans. CO2 will displace oxygen, so it is directly dangerous to humans and very lethal at higher concentrations. Making CO2 detectable for humans would prevent for life-threatening situations. Therefore the company is looking for a solution to ensure that unexpected CO2 leakage out of our products will be detected quickly. The purpose of this challenge is to make CO2 detectable for the human senses in case of slight leakages. This could be done by adding another substance to the CO2, for example by odorisation, to make it detectable by human senses far under the deadly concentration of CO2. Beside smell also other signals like colour might be interesting. The solution could also be applied to other gases like nitrogen. As CO2 is also used in other industries, there is a large market potential for the possible solution.</td>
</tr>
<tr>
<td>Partners Sought</td>
<td>Type of Partners sought:</td>
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<tr>
<td></td>
<td>• SMEs and larger companies</td>
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<td></td>
<td>• R&amp;D Institutions</td>
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<td></td>
<td>• Universities</td>
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<tr>
<td></td>
<td>Specific area of activity:</td>
</tr>
<tr>
<td></td>
<td>• Experience with materials and methods for detecting CO2</td>
</tr>
<tr>
<td></td>
<td>Tasks to be performed:</td>
</tr>
<tr>
<td></td>
<td>• Development of materials and methods for detecting CO2</td>
</tr>
<tr>
<td></td>
<td>• Supplier of these materials and methods</td>
</tr>
<tr>
<td>Link</td>
<td>Full Version: TRNL20200407001</td>
</tr>
<tr>
<td>Deadline</td>
<td>Internal Deadline: 16 Apr 2021</td>
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</tbody>
</table>
# Technology Request

<table>
<thead>
<tr>
<th>ID</th>
<th>TRAT20200331001</th>
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</thead>
<tbody>
<tr>
<td>Title</td>
<td>Austrian diagnostics company seeks contract manufacturer for In Vitro Diagnostic test kits</td>
</tr>
</tbody>
</table>
| Abstract | The company possess a globally unique proprietary technology for the molecular characterisation and assessment of specific peptides, which play a key role for the regulation of blood pressure, water balance as well as acute and chronic inflammation. This novel technology is used to enable a more targeted therapy to treat high blood pressure or to newly develop such medications by rational design.

The company already offers its technology as in-house analytical services to worldwide customers and now wants to expand its portfolio to diagnostic test kits so that customers/laboratories are able to apply the technology directly. Therefore, the company is looking for an experienced partner for manufacturing of the test kits and preparation of the necessary documentation in German and English. The test will comprise well plates, liquids and a chromatography column (Original Equipment Manufacturer, OEM). All items and reagents will be ordered by the company and delivered directly to the assembling and manufacturing partner. |
| Partners Sought | Type of Partners sought:
- SMEs |
| Specific area of activity: | Experience in diagnostic manufacturing |
| ISO 13485-certified |
| Compliance with applicable statutory and regulatory requirements |
| Tasks to be performed: | Manufacturing of the diagnostic test kit |
| Link | Full Version: TRAT20200331001 |
| Deadline | Internal Deadline: 10 Apr 2021 |
## Technology Request

<table>
<thead>
<tr>
<th>ID</th>
<th>TRFR20200407001</th>
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<tbody>
<tr>
<td>Title</td>
<td>European actors providing home care services for elderly people are sought to share innovative practices and complementary technologies</td>
</tr>
<tr>
<td>Abstract</td>
<td>The French non-profit organization has been created in 2016 to promote research, innovation, evaluation, training and ethics in Paris Region. It is dedicated to gerontology and geriatrics. It assesses the measures taken for older people in terms of prevention, care, technical assistance and training of health professionals. This organization also scientifically measures clinical, economic, ethical and practical aspects of innovations. The French organization is currently responding to a French call for projects the objective of which is to finance the organization of a study trip for a French mission group. This French mission group will observe foreign patterns of home care for the elderly, which are complementary to professional French home care services. The French mission group will carry out a field visit and then a multidimensional observation relating to: Organization of the system / Economic model, Nature of the services offered, Target audiences, Brakes / limits difficulties encountered. The final objective of this mission is to introduce new practices in France to improve the quality of life of elderly people living at home, by drawing lessons on: What is transposable / transferable in the French context; Which seems more difficult to &quot;import&quot;.</td>
</tr>
</tbody>
</table>
| Partners Sought | Type of Partners sought:  
- SMEs and larger companies  
- Non-profit organizations  
Specific area of activity:  
- Providing a service for elderly people at home  
Tasks to be performed:  
- Providing inspiring models for home help for elderly  
- Preparing a presentation for the application process and passing the observations of the French organization (more information on the application on the website) |
| Link        | Full Version: TRFR20200407001 |
| Deadline    | Internal Deadline: 10 Jul 2020 |