

## Research & Development Request

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### **H2020- MG-4.1-2017: End-users (city councils, municipalities, transport companies, etc.) for a new solution for taxi/bus transport**

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#### Summary

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*A Spanish SME company, specialised in ICT solutions and with wide experience coordinating European projects, is looking for end-users (city councils, municipalities, transport companies, etc.) to take part in a consortium aimed to deploy a new solution for taxi/bus transport in at least ten different locations in Europe. The proposal will be submitted to the call TRANSPORT-MG-4.1-2017: Increasing the take up and scale-up of innovative solutions to achieve sustainable mobility in urban areas.*

Creation Date	17 October 2016
Last Update	17 October 2016
Expiration Date	17 October 2017
Reference	RDES20161017001
Profile link	<a href="http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/e3f004ed-6a26-4e53-a8e5-8fec44e8d64a">http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/e3f004ed-6a26-4e53-a8e5-8fec44e8d64a</a>

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#### Details

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##### Description

When multiple options are available, citizens evaluate and ponder their pros and cons to select the one that better fits their demands. This has also become apparent in the transport sector in the last years with the appearance of innovative services such as Bla Bla Car, Uber or Car2Go. Traditional business models, e.g. taxis, have still the chance to adapt their strategy to new trends at the time they contribute to a more sustainable urban mobility. Sharing the same vehicle, allowing pick-ups and drops at specific locations, combinations with other means of transport or flexible rates are some aspects that should be considered. In this context, the generation of ephemeral taxi/bus routes in urban environments is proposed to:

- Facilitate the access to any point of the city, no matter the level of demand.
- Encourage taxi sharing and smart pricing.
- Increase the connectivity of different means of transport and improve urban mobility.
- Study and analyse mobility patterns for better coordination and cooperation.

Programme framework conditions: Collaborative project, two-stage evaluation.

Deadline for expressions of interest: 30/11/2016

Call deadline: 26/01/2016

Project duration: 3 years

Type and role of the partners sought: The Spanish SME company is looking for end-users (municipalities, city councils, transport companies – especially taxi and buses) to join the consortium. Consolidated partnerships between municipalities and public transport services or similar collaboration schemes are also welcome. They will participate as end users and testers

and will also try to engage citizens to take advantage of more efficient means of transport. In principle, there is no restriction with respect to their size.

## Stage of Development

Proposal under development

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## Keywords

### Technology

01004003 Applications for Transport and Logistics

### Market

02007007 Applications software

09001007 Other transportation

### NACE

J.62 Computer programming, consultancy and related activities

J.62.0.3 Computer facilities management activities

J.63.1 Data processing, hosting and related activities; web portals

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## Network Contact

### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

Pawel Zebrowski

### Phone Number

+48 91 449 43 64

### Email

pzebrowski@zut.edu.pl

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

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## Dissemination

### Send to Sector Group

ICT Industry and Services

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## Client

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### Type and Size of Organisation Behind the Profile

Industry SME 50-249

### Year Established

1996

### 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

End-users (municipalities, city councils, transport companies – especially taxi and buses) are sought to join the consortium. Consolidated partnerships between municipalities and public transport services or similar collaboration schemes are also welcome. The partners will participate as end users and testers and will also try to engage citizens to take advantage of more efficient means of transport. In principle, there is no restriction with respect to their size.

### Type and Size of Partner Sought

SME 11-50, SME 51-250

### Type of Partnership Considered

Research cooperation agreement

## Research & Development Request

# SME Instrument - Space: partners to develop and integrate sensors to be placed on board CubeSats

## Summary

*Portuguese technological company, established in 2014, acting in the field of space and aerospace is looking to establish a research cooperation agreement to develop and integrate sensors to be placed on board CubeSats. Currently it is preparing a proposal for SME Instrument Phase 2 for H2020 Framework Program engaging SMEs in Space Research and Development. The objective of the project is to collect different data during space missions, such as temperature, electron density, and magnetic field.*

<b>Creation Date</b>	12 September 2016
<b>Last Update</b>	13 October 2016
<b>Expiration Date</b>	13 October 2017
<b>Reference</b>	RDPT20160912001
<b>Profile link</b>	<a href="http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/33b62115-4fe7-4dd6-a690-602978432409">http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/33b62115-4fe7-4dd6-a690-602978432409</a>

## Details

### Description

The upper stages of the atmosphere are also the most unknown ones to the scientific community. Data collection around this area is mostly based on remote sensing, the only methods for collecting in-situ data presents different barriers such as geographical limitation, and development costs and time.

The company is specialized in smart commissioning and decommissioning systems, optimizing spacecraft's operations and value. Its system enables spacecraft to perform precise manoeuvres for decommissioning, mainly for re-entry to the atmosphere, allowing identifying the footprint on Earth.

This technology potentiates the usage of the satellite's re-entry trajectory in order to select a time and location when it can be possible, through the integration of miniaturized sensors on board of the satellite, collect upper atmosphere in-situ data.

The company is currently searching for partners with expertise in the areas of the upper atmospheric layers, as well as partners that have previous expertise in the development of sensors that can be flown on board nanosatellites and collect data accurately.

The company is preparing a proposal for SME Instrument Phase 2 for H2020 Framework Program engaging SMEs in Space Research and Development. The objective of the project is to collect different data during space missions, such as temperature, electron density, and magnetic field:

EOI deadline: 18th November, 2016  
Call deadline: 18th January, 2017  
Expected duration of the project: 2 years

## Advantages and Innovations

The Mesosphere and Lower Thermosphere are the most poorly known stages of the Earth's atmosphere. This system provides an innovative approach based on nanosatellite technology that promises to deliver in-situ real-time data on any geographical area of the Mesosphere and Lower Thermosphere by taking advantage of predetermined and precise re-entry trajectories. The solution is scalable and easily upgradable to extend the sensors' capabilities and thus enter in different "big data" market.

Based on the capability to follow a precise trajectory to re-enter the atmosphere from any low Earth orbit, this technology enables the collection of data in pre-determined places. Currently existing technologies are based on sounding rockets, which are expensive and limited in location of launch. Advantages of this solution are the elimination of geographical restrictions, shorter development times, and increased cost-efficiency.

This technology also allows for a greater flexibility in terms of the sensors that can be put on board, as Commercial Off-The Shelf components are increasingly available, allowing for increased modularity of the nanosatellite. Launch opportunities also increase as the result of using CubeSat technology, as launch slots are getting increasingly frequent and its cost is lowering considerably.

## Technical Specification or Expertise Sought

As an expert in decommissioning services, the company is currently searching for partners with expertise in the areas of the upper atmospheric layers, as well as partners that have previous expertise in the development of sensors that can be flown on board nanosatellites and collect data accurately.

## Stage of Development

Proposal under development

## Comments Regarding Stage of Development

The project has received funding to perform a feasibility study; in parallel the team is undergoing a technology demonstration mission where it will be possible to collect an initial set of data. This mission used Commercial Off-The Shelf sensors and its main objective is to validate collected data and test market acceptance. Further development of the project will include the sourcing and development of the most efficient sensors to be used on board nanosatellites in upcoming missions.

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## Keywords

### Technology

02011005                      Space Exploration and Technology

### Market

01005004                      Microwave and satellite components

### NACE

J.61.3.0

Satellite telecommunications activities

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## Network Contact

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### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

Pawel Zebrowski

### Phone Number

+48 91 449 43 64

### Email

pzebrowski@zut.edu.pl

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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 SME <= 10

### Year Established

2014

### Turnover

<1M

### Already Engaged in Trans-National Cooperation

No.

### Languages Spoken

English  
Portuguese

### Client Country

Portugal

## Partner Sought

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### Type and Role of Partner Sought

The company is looking for a research cooperation agreement. It is currently searching for partners with expertise in the areas of the upper atmospheric layers, as well as partners that have previous expertise in the development of sensors that can be flown on board nanosatellites and collect data accurately.

### Type of Partnership Considered

Research cooperation agreement

## Research & Development Request

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# H2020 GALILEO-1-2017: companies/organisations active in railway sector to develop an innovative solution for the maintenance service of rail infrastructure

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### Summary

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*Italian company active in communication & security is writing a project proposal to be submitted under H2020: GALILEO-1-2017 call. The project is aimed at enabling an innovative solution to improve the maintenance service of rail infrastructure. The company is looking for European partners active in the railway sector to be involved. Universities, as academic supervisor are also sought.*

Creation Date	07 October 2016
Last Update	12 October 2016
Expiration Date	12 October 2017
Reference	RDIT20161007001
Profile link	<a href="http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/32880038-2559-498e-8281-304755200870">http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/32880038-2559-498e-8281-304755200870</a>

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### Details

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#### Description

The RAIM project aims at enhancing the operation of vehicles maintenance in railway infrastructure.

The main idea is to propose a innovative solution to improve the maintenance service of rail infrastructure. All the fleet will be based on a wireless network that will allow collecting the data of vehicles employment and will be written a forecast about the length and timely replacement of the components. The objective is to move from a cyclical maintenance to a predictive one.

The system, in compliance with regulation 445/2011, will be implemented by a wireless network, used to link to the machine employed, and consisting of an installed diagnostic box on the vehicles used to collect data that will be sent to the operations center. The central server will act as a node between the operating switching machine and the maintenance operators.

The access to the system will be multilevel and will be managed by four profiles:

- System administrator which coordinates the service functions and establish all the user rights and activities
- Fleet Manager which supervises the distribution of vehicles and their retrieval when they have to be repaired or refurbished
- Maintenance developer, which will manage the service documentation and procedures on the basis of statics and data processed by RAIM's elaboration software
- Operational manager, which will execute the technical activities on the vehicles retrieved for



maintenance and will draw up the related working reports.

RAIM project is mainly oriented to the European maintenance companies of railway networks, but the major machine manufacturer will be also involved.

The company is mainly looking for rails companies, railway builders and makers of maintenance way vehicles to perform the test phase. Companies with expertise in project coordination in the field of railways are also sought.

A university with supervising role is also needed.

Call identifier: H2020 (GALILEO-1-2017)

Types of action: Innovation action

Deadline of the call: 01-03-2017 (March 1st 2017)

Deadline for EOIs: 26-11-2016 (November 26th 2016)

Some information about the Italian company behind this profile:

Since 1960 it has been involved in designing, manufacturing and managing high tech radio-communication systems both for public administration and private use, in Italy or abroad.

It has thus gained particular, specific expertise in designing microelectronic devices, where small dimensions, low power consumption and high reliability are the key factors to satisfy the customer's requirement.

## Advantages and Innovations

Nowadays there are advanced technologies for railway diagnosis but some solutions for geolocation and control of the means of intervention have not been developed, yet. RAIM system aims to spread a solution for the management of these vehicles. The innovation advantages are:

- Remote monitoring of the vehicles
- Tracing of all working operations
- Prediction of failures and early warning generation
- More accuracy of localization due to Galileo network
- Indoor location of vehicles
- Less time for repairing interventions
- Increase of staff safety
- Fuel cost savings
- Maintenance costs reduction
- Improvement of working area due to video surveillance

## Technical Specification or Expertise Sought

The company is mainly looking for end-users ( i.e . rails companies, railway builders and makers of maintenance way vehicles) to perform the test phase thanks to their relevant fleet.

Universities with supervising role and partners with project coordination expertise in railway sector are also sought.

## Stage of Development

Proposal under development

## IPR Status

Secret Know-how

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## Keywords

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## Technology

01003014	Internet Technologies/Communication (Wireless, Bluetooth)
01003021	Remote Control
02008004	Railway Transport
02009003	Railway Vehicles
02010003	System and transportation

## Market

09001007	Other transportation
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## NACE

C.26.3.0	Manufacture of communication equipment
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## Network Contact

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### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

Pawel Zebrowski

### Phone Number

+48 91 449 43 64

### Email

pzebrowski@zut.edu.pl

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**Open for EOI :**    **Yes**

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## Dissemination

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### Restrict Dissemination to Specific Countries

Austria, Belgium, Bulgaria, CzechRepublic, Denmark, Estonia, Finland,  
France, Germany, Hungary, Lithuania, Netherlands, Norway, Poland,  
Portugal, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland,  
UnitedKingdom,

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## Client

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## Type and Size of Organisation Behind the Profile

Industry SME 11-49

## Year Established

1960

## Turnover

10 - 20M

## Already Engaged in Trans-National Cooperation

Yes

## Experience Comments

Other certifications: - qualified for the execution of public works (SOA)

## Certification Standards

ISO 9001:2000

## Languages Spoken

English  
Italian

## Client Country

Italy

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## Partner Sought

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### Type and Role of Partner Sought

Rails companies, railway builders, and makers of maintenance way vehicles will be in charge of testing the prototype for a year by making available their own fleet. The involvement of companies (also consultancy ones) able to provide coordination advice and support in the field is also envisaged.

Universities will be given the role of academic supervisor.

### Type of Partnership Considered

Research cooperation agreement

## Research & Development Request

### H2020 - FOF-12-2017: searching for solution providers and manufacturers for a factory of the future.

#### Summary

*A consortium of two French clusters specialized on mobility and automotive industry R&D will submit a proposal under H2020 FOF-12-2017 – ICT Innovation for Manufacturing SMEs. The main action is to build a production line containing major new technologies created by innovative start-ups, in real working conditions, to enhance manufacturing efficiency. It seeks solution providers and manufacturer.*

<b>Creation Date</b>	05 October 2016
<b>Last Update</b>	11 October 2016
<b>Expiration Date</b>	11 October 2017
<b>Reference</b>	RDFR20161005001
<b>Profile link</b>	<a href="http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/08bb879c-9401-4cc3-9f7f-dd130fd8c171">http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/08bb879c-9401-4cc3-9f7f-dd130fd8c171</a>

#### Details

##### Description

Two French mobility and automotive R&D competitiveness clusters have decided to create a consortium that is developing a H2020 proposal on the adoption of advances technologies improving productivity by fostering of the capacities of the factories designing process and integration ICT features for the growth of their competitiveness. From now on, the coordinator of the consortium is the automotive industry cluster which was the first to work on the H2020 proposal.

The concept of factory of the future is widely spread across Europe but more than a concept than a reality. A large scale of technology is now available, and the adoption of these technologies in the manufacturing sectors shall give a clear competitiveness advantage the European production of goods.

The project will increase the technological assets of EU manufacturing through the development and integration of enabling technologies, such as innovative technologies for adaptable machines, ICT for manufacturing, and novel industrial handling of advanced materials (3D printing ...).

The main action is to build a factory of the future, i.e. to build a production line containing major new technologies created by innovative start-ups, in real working conditions, to enhance manufacturing efficiency, and not a simulation or just part of a production line to demonstrate the technology. Consequently, the core project is to design the assembly of existing technologies in one place, working in real and effective conditions.

For achieving the expect results, the first activity will be the evaluation of the available

technologies and features compared to manufacturing needs. Secondly, the work will focus on the identification and collection of the best solutions in the area of good processing and waste sustainability. The third activity will work on the analysis of the manufacturing performance results.

Three production lines on which are assembled technological components provided by technology providers will be the demonstrators of the manufacture enhanced by new technologies, making real the factories of the future. Each production line will integrate the same new technology solutions to improve competitiveness (about 10 features), allowing return of experiment sharing: benchmark, production indicators improvement, technologies/features validation and appropriation.

The project will therefore be developed on the production sites across Europe according to regional or national specialisation, to apply these advanced solutions (ICT, IoT, smart objects, big data, data mining, simulation, automation, robotics ...)

R&D for start-ups could therefore be limited to the adaptation and integration of existing products. Also, these POCs will enable them to sell their technology.

The project will cover the following four areas of technologies for adoption in manufacturing:

- CPS and IoT
- Robotics
- Modelling, simulation, data mining and analytics
- Digital design for additive manufacturing

The French cluster is looking for SME or Lab : customisation and integration of new technology solutions and implementation of new technology solutions in the production line.

Call deadline : 19-01-2017

EOIs deadline : 15-12-2016

Project duration : 3 years

Anticipated budget : 8 million euros

## Advantages and Innovations

Focus is on emerging innovative technologies and processes, which need to be customised, integrated, tested and validated before being released on the market.

These new features and products, providing by innovative start-ups and laboratory centres, will reach the businesses of the factories to enable their production performance enhancement: facilities, tools, IT, enterprise resource planning...

Moreover, the project aims to contribute to the promotion of sustainable consumption of resources by their better management and efficiency.

The economic advantage is triple

- For the production line, to benefit from technology that will enhance performance and competitiveness that can be financed and made permanent;
- For the innovative start-ups, to support the application of new products and services, and therefore foster the emergence of new technology and business;
- For SME's, the opportunity to test technologies on real production lines.

## Stage of Development

Project in negotiations - urgent

## Comments Regarding Stage of Development

The French automotive industry cluster is the coordinator of the consortium. The consortium wants to find more potential partners. Selection will be based on qualitative criteria. For information, 35 companies are interested to join the project but the consortium is still looking for foreign partners.

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## Keywords

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### Technology

01001001	Automation, Robotics Control Systems
01001002	Digital Systems, Digital Representation
01002002	3D printing
01003015	Knowledge Management, Process Management
01003025	Internet of Things

### Market

02006004	Data processing, analysis and input services
02006005	Big data management
08002002	Industrial measurement and sensing equipment
08002003	Process control equipment and systems
08002004	Robotics

### NACE

C.27.9.0	Manufacture of other electrical equipment
C.28.2.9	Manufacture of other general-purpose machinery n.e.c.

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## Network Contact

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### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

Pawel Zebrowski

### Phone Number

+48 91 449 43 64

### Email

pzebrowski@zut.edu.pl

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**Open for EOI :**    **Yes**

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## Dissemination

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### Send to Sector Group

ICT Industry and Services

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## Client

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### Type and Size of Organisation Behind the Profile

R&D Institution

### Year Established

2006

### Already Engaged in Trans-National Cooperation

Yes

### Languages Spoken

English

French

### Client Country

France

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## Partner Sought

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### Type and Role of Partner Sought

The project will cover the following four areas of technologies for adoption in manufacturing:

- Cyber physical system and IoT: Adoption and piloting of CPS/IoT in smart production environments, with special focus on scalable, modular and re-configurable automation systems across the process chain.
- Robotics: New robot systems that are cost effective at lower lot sizes, with the benefit of long-term improvements in productivity, the ability to work safely in close physical collaboration with human operators; and that are intuitive to use and adaptive to changes in task configuration. Key for fast adoption is the availability of flexible and easy to apply material feeding solutions. Step changes to at least two of the following abilities are therefore considered necessary: configurability, interaction capability, decisional autonomy in terms of context-awareness, and dependability.
- Modelling, simulation, data mining and analytics: HPC Cloud-based modelling, big data management, simulation and analytics services with special emphasis on sustained service models; on providing real-time support; and on addressing comprehensively security and privacy issues at all levels.
- Digital design for additive Manufacturing: Supporting the broad uptake of innovative additive

manufacturing equipment and processes particularly focusing on the link between design tools and production, changes in business models, process chains and stakeholder relations.

Partners sought:

1/ Type: SME or Lab

Field of activity: Development of high technology solution for production enhancement

Role: Customisation and integration of new technology solutions

2/ Type: SME

Field of activity: production line

Role: implementation of new technology solutions in the production line

3/ Type: Enterprise

Field of activity: production line

Role: implementation of new technology solutions

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

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

### **Type of Partnership Considered**

Research cooperation agreement



## Research & Development Request

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# UK-based university seeks SME consortium partners for H2020 proposal to FOF-07-2017 to develop and incorporate laser technology into multi-material product manufacturing

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### Summary

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*A UK-based university is submitting a proposal to Horizon 2020 call topic FOF-07-2017: Integration of unconventional technologies for multi-material processing into manufacturing systems. The project will develop and incorporate laser technology into multi-material product manufacturing to reduce costs and production time. The university seeks SMEs working in multi-material manufacturing and factories of the future space to join the consortium. The partnerships will be research collaborations.*

Creation Date	14 October 2016
Last Update	17 October 2016
Expiration Date	17 October 2017
Reference	RDUK20161014001
Profile link	<a href="http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/8ff68655-5901-4765-b9bd-28f1032ea0f2">http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/8ff68655-5901-4765-b9bd-28f1032ea0f2</a>

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### Details

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#### Description

The production of differentiated and high added value products efficiently and sustainably is important for the competitiveness of European manufacturing. Often such products are multi-material and require as high product quality adding a level of complexity to manufacturing that has to be squared with minimised time to market and reduced production costs.

The incorporation of laser technology into the manufacturing processes for multi-material products has the potential to reduce production time, production costs as well as reducing wastage in both materials and energy. However there are several barriers to the incorporation of laser technology that need to be overcome, such as the lack of standardisation with regard to surface modifications, long process cycles, lack of automation and the perception of lasers as a 'dark art'.

A UK-based university is proposing a project that aims to overcome these barriers and incorporate laser technology into multi-material product manufacturing. This project aims to develop laser technologies for carbon fiber (CFRP) / metal processing, develop and utilise process monitoring and real time Non-destructive testing (NDT) for multi-materials, develop 'cloud manufacturing' for hybrid structures as well as laser engineering concepts for hybrid structures and flexible automation with associated inspection and control processes. The university is proposing this project to the Horizon 2020 call topic FOF-07-2017: Integration of

unconventional technologies for multi-material processing into manufacturing systems and are looking for SMEs to join the consortium.

They are looking for SMEs working in the Factories of the Future field with experience of working in the multi-material processing as well as cloud infrastructure and metrology.

Expressions of interest from SMEs in the following areas are especially welcome:

1. End user in the aerospace sector with a strong composite focus
2. End user in the automotive sector with a strong composite focus
3. End user in the marine sector with a strong composite focus
4. A systems integrator that will build the demonstrator (modular design concept)
5. Cyber Security Company protecting the control of the system in the cloud.
6. Inline non destructive testing and sensor process control of the demonstrator (Micro Epsilon)
7. A company involved in simulation of the manufacturing cycle focusing on hybrid structures and developing new manufacturing system. (composite/ metals)

The partnerships will take the form of a research collaboration agreement.

Deadline for EOIs: 02 December 2016

Call deadline: 19 January 2017

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## Keywords

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### Technology

02007005 Composite materials

### Market

08001015 Other speciality materials

08002007 Other industrial automation

### NACE

M.71.2.0 Technical testing and analysis

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

P.85.4.2 Tertiary education

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## Network Contact

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### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

Pawel Zebrowski

### Phone Number

+48 91 449 43 64

### Email

pzebrowski@zut.edu.pl

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**Open for EOI :**   **Yes**

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## Dissemination

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**Send to Sector Group**  
Materials

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## Client

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### Type and Size of Organisation Behind the Profile

University

### Year Established

0

### Already Engaged in Trans-National Cooperation

Yes

### Languages Spoken

English

### Client Country

United Kingdom

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## Partner Sought

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### Type and Role of Partner Sought

The UK-based university is seeking SME partners to join the consortium. In particular they are looking for SMEs working in the Factories of the Future field with experience of working in the multi-material processing as well as cloud infrastructure and metrology.

The university especially would like to partner with SMEs in the following areas:

Expressions of interest from SMEs in the following areas are especially welcome:

1. End user in the aerospace sector with a strong composite focus
2. End user in the automotive sector with a strong composite focus
3. End user in the marine sector with a strong composite focus
4. A systems integrator that will build the demonstrator (modular design concept)
5. Cyber Security Company protecting the control of the system in the cloud.
6. Inline non destructive testing and sensor process control of the demonstrator (Micro Epsilon)
7. A company involved in simulation of the manufacturing cycle focusing on hybrid structures and developing new manufacturing system. (composite/ metals)

The partnerships will take the form of a research collaboration agreement.

## Type of Partnership Considered

Research cooperation agreement

## Research & Development Request

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### H2020: ERC-2017-Consolidator - Novel biomaterials for exploitation in medical and healthcare technologies

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#### Summary

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*A UK university is working on a proposal under H2020:ECR-2017 - COG: Partners operating in antimicrobial hydrogels preventing infections, treating wounds in extreme temperature conditions or chemicals in wound healing in a pre-hospital, non-clinical setting are sought.*

<b>Creation Date</b>	13 October 2016
<b>Last Update</b>	21 October 2016
<b>Expiration Date</b>	21 October 2017
<b>Reference</b>	RDUK20161013001
<b>Profile link</b>	<a href="http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b4795345-eb90-4bbf-b91d-bc214d6b4a6b">http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b4795345-eb90-4bbf-b91d-bc214d6b4a6b</a>

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#### Details

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##### Description

A UK university is working on a project proposal aimed at creating novel biomaterials for exploitation in medical and healthcare technologies which require operation in extreme or hostile environments. The project will target wound healing, tissue engineering, drug delivery and medical devices. The research will create unique polyprotein hydrogels which possess specific biological function capabilities, enabling dynamic changes in mechanical and structural properties in response to bio-molecular cues. This will be achieved through a cross length scale, physics-based approach which will translate knowledge of the nanoscale biophysics of folded proteins to the mesoscale architecture and function of novel folded polyprotein hydrogels. This will provide a rich area for exploration in soft matter physics and biophysics and define exciting new directions in the hydrogel field. Partners operating in antimicrobial hydrogels for preventing infections, treatment of wounds in extreme conditions of temperature or chemicals and dealing with wound healing in a pre-hospital, non-clinical setting are sought.

Programme: ERC Consolidator Grant Fellowship: This is a flexible long term fund for a period of up to 5 years to a maximum of 2m Euros. The grant is to support excellent researchers to do ground breaking high risk/ high gain research. The primary host will be the researcher/academic institution who can evidence that they have 7-12 years experience since completing their PhD and show an excellent track record of research in this field. and that can demonstrate that they have had work published within journals. The partners can be institutions, companies or individuals that can demonstrate that they have the knowledge, expertise and products within the field of wound care.

Companies or partners can act as the host for the researcher or be a partner to carry out the research and testing, however, the grant will sit with the principal researcher/institution who can demonstrate they have the knowledge and expertise.

The funding rates will take the form of the reimbursement of up to 100% of the total eligible and

approved direct costs and of a flat-rate financing of indirect costs corresponding to 25% of the total eligible direct costs.

Further information on the eligibility criteria can be found on ECR's website or searching within 2017 ERC work programme.

Call opening: 20th October 2016

Deadline: 9th February 2017

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## Keywords

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### Technology

02007005	Composite materials
06001007	Emergency medicine
06001013	Medical Technology / Biomedical Engineering
06002002	Cellular and Molecular Biology

### Market

05003001	Therapeutic services
05003005	Drug delivery and other equipment
05003006	Other therapeutic (including defibrillators)
05005013	Emergency medicine

### NACE

M.72.1.1	Research and experimental development on biotechnology
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## Network Contact

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### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

Pawel Zebrowski

### Phone Number

+48 91 449 43 64

### Email

pzebrowski@zut.edu.pl

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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

University

### Year Established

0

### Already Engaged in Trans-National Cooperation

No.

### Languages Spoken

English

### Client Country

United Kingdom

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## Partner Sought

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### Type and Role of Partner Sought

- companies specialised in antimicrobial hydrogels for preventing infections (pH, hazardous chemical spillages or chemical warfare);
- organisations operating in treatment of wounds in extreme conditions of temperature or chemicals;
- organisations dealing with wound healing in a pre-hospital, non-clinical setting.  
This might include military trauma, civilian trauma and point of incident treatments.

### Type of Partnership Considered

Research cooperation agreement

## Research & Development Request

### **Pre-Commercial procurement: rehabilitation of post-stroke patients. Expertise in home care of elderly, telematics, language/speech or dementia sought**

#### Summary

*An Italian consortium is looking to develop a system that will enable rehabilitation of post-stroke patients in their own home, helping them to live more independently. The consortium is looking for an European partner experienced in home care of elderly, telematics, language/speech or dementia to jointly apply for the following call: Pre-Commercial procurement (PCP) to buy R&D services to enable rehabilitation of post-stroke patients in their own home.*

Creation Date	27 October 2016
Last Update	31 October 2016
Expiration Date	31 October 2017
Reference	RDIT20161027001
Profile link	<a href="http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/34cb7420-8a42-49d8-9c7e-30d734236a04">http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/34cb7420-8a42-49d8-9c7e-30d734236a04</a>

#### Details

##### Description

Presently 1/3rd of all stroke patients are discharged from hospital with a significant change to life style, well-being, health status & independence. Community H&SC services (Health and Social Care) do not enable patients to make a sufficient recovery post stroke. A search of state of the art technologies indicated much progress in the development of technologies to assist patients but no system is available to significantly affect rehabilitative improvement to scale; with no solution integration with H&SC services.

An Italian-based company specializing in specialized in software development, cloud computing and consulting is building a consortium that is developing a system to be implemented in post-stroke care, expected to make it possible to care for more service users with the same number of care givers whilst improving the outcome of health gain at 6 months post-stroke.

The aim is also to increase the quality of life for the post-stroke patient by making them to live more independently and also manage their mental well-being.

This system focuses upon the development and implementation of technology based solutions for patients who have experienced a stroke. The system will use and integrate apps, remote connection between therapist, technologies to empower self-care, gamification, remote vital sign monitoring (beyond standard telecare and telehealth. The project will bring different technologies together into one system. The consortium currently consists of 4 Italian SMEs,

- 1- engaged into developing and integrating the technology,
- 2- specialized in gamification/ serious games,
- 3- developing Telemonitoring, multiparameter and activities monitoring systems.
- 4- providing rehabilitation services for post stroke patients



The consortium is looking for an organization/SME experienced in home care of elderly, telematics, language/speech or dementia based in Europe.

The project proposal will be submitted to the pre-commercial procurement to buy R&D services to enable rehabilitation of post-stroke patients in their own home (PIN 2016/S 083-146689). The call shall be published within the MAGIC (Mobile Assistance for Groups and Individuals within the Community – Stroke) H2020 project, the first PCP awarded in Europe under H2020.

Call topic: Research and experimental development services.

The deadline for tender submissions is Friday 9th December 2016 at 3pm.

EOIs deadline: 29th November 2016.

## Stage of Development

Proposal under development

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## Keywords

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### Technology

01001001	Automation, Robotics Control Systems
01001002	Digital Systems, Digital Representation
01003001	Advanced Systems Architecture
01004016	Analysis Risk Management

### Market

05001	Diagnostic
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### NACE

G.46.5.1	Wholesale of computers, computer peripheral equipment and software
J.58.2.9	Other software publishing
J.62.0.1	Computer programming activities
J.62.0.9	Other information technology and computer service activities
J.63.1.1	Data processing, hosting and related activities

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## Network Contact

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### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

Pawel Zebrowski

### Phone Number

+48 91 449 43 64

### Email

pzebrowski@zut.edu.pl

Open for EOI : **Yes**

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## Client

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### Type and Size of Organisation Behind the Profile

Industry SME 11-49

### Year Established

0

### Turnover

1 - 10M

### Already Engaged in Trans-National Cooperation

No.

### Certification Standards

ISO 9001:2008

ISO 2000

### Languages Spoken

English

French

Italian

### Client Country

Italy

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## Partner Sought

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### Type and Role of Partner Sought

The consortium is looking for SME/Organization experienced in home care of elderly, telematics, language/speech or dementia, based in Europe.

The sought consortium partner should make available information and data on the system of care and rehabilitation in its country and be involved in the development and testing of the technology solution.

### Type of Partnership Considered

Research cooperation agreement

## Research & Development Request

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# H2020 FOF-10-2017: Partners sought for customization and reutilization of mobile devices based on single components, complete circuits as well as whole devices with or without display

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### Summary

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*The project is about modifications and reuse of high-end devices (e.g. mobile phones) or parts of them. This can be done either on the component and circuit level or by using the devices as a whole in an application. The objective is to realize a pilot process chain. Partners should be experienced in developing consumer electronics or recycling high-end devices. The project will be submitted to the EU H2020 program FOF-10-2017 and coordinated by a research facility in Germany.*

<b>Creation Date</b>	02 September 2016
<b>Last Update</b>	07 October 2016
<b>Expiration Date</b>	07 October 2017
<b>Reference</b>	RDDE20160902001
<b>Profile link</b>	<a href="http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/cc2e2ddd-b290-4aa6-8a85-b0ce35e527e3">http://een.ec.europa.eu/tools/services/PRO/Profile/Detail/cc2e2ddd-b290-4aa6-8a85-b0ce35e527e3</a>

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### Details

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#### Description

The research domain is a mix out of development of electronics and informatics as well as production and reuse/recycling technologies. The development of electronics focuses on the implementation of small add-ons or stand-alone devices with new hardware, whereas the software is needed to add new methods and functionalities, as well as in the computer vision and artificial intelligence domains. The production parts cover the fabrication of these devices with focus on economical and reliable processes. The end-of-life part is covered by the recycling technologies, which are researched in order to enable the extraction and reuse of components or circuits.

Useful results would be methods to extract and modify components from high-end devices and pilot devices employing those components. By supplying parts or whole devices to a new use, typically two targets are reached: First, the user is allowed to customize his devices according to his wishes. Then, the devices are used for a longer period leading to a more economical and environmentally friendly life cycle.

To reach these targets, specific add-ons for the devices should be developed in order to enable customization of the devices, e.g. a camera add-on or a network interface. These add-ons should be developed to cover a wide range of applications. Possible options are simple data loggers as well as network extensions and surveillance tasks or assistive devices for elderly. The add-ons will focus on the most used devices and operate under typical operating systems. In this region some research was already done, such as the development of a parcel butler

based on a smart phone. Additional ideas for reuse like home automation applications or the reuse of components and electronics of partly damaged hardware are currently under research in small scale.

The described modifications can be implemented using software or hardware extensions. Therefore, partners are sought with experience in developing home automation electronics or adjacent fields. In order to cover the complete process chain another research topic targets the production of devices focused on future modifications. Partners from this field should cover some production capabilities concerning electronics. On the other hand, the reuse of components or circuits of damaged devices are also important for this project. To cover this topic a pilot plant for detection of valuable components was realized. Nevertheless, partners with experience in the reuse and recycling sector are most welcome, as it is planned to develop a plant in an industrial environment.

The founding program is part of the cross-cutting activities within the EU research program H2020. The framework conditions consist mainly of the complete coverage of the process chain as well as inclusion of at least 3 partners from different countries, out of whom the project coordinator is one. Beside these international conditions, the developed technologies should lead to a reduction of the time to market and the manufacturing costs of personalized products. Moreover, the technologies should be environmentally friendly and rather flexible in their use. The EU commission considers an average contribution of around EUR 5 million appropriate for these topics.

The project coordinator is head of a laboratory with focus on development of electronics and informatics and part of a wider research network realizing reuse projects. Besides the coordinator, there are several small-scale business contacts within Germany from different regions. The contacts are from different regions, e.g. small scale production or recycling. The requested partners should cover part of the process chain indicated above. Needed capabilities range from development skills in household electronics to informatics, from production to recycling and reuse of electronic components.

Call deadline: 19th January 2017

EOI deadline: 12th December 2016

## Stage of Development

Proposal under development

## Comments Regarding Stage of Development

There is a prototype showing the possibilities of reuse of mobile devices. This prototype meets the TRL6 criteria for the EU-Call as well as the classification "Prototype available for demonstration". Moreover a pilot plant in the reuse/recycling section for detection and extraction of components on different kinds of hardware is there. The pilot plant meets the TRL5 criteria.

## IPR Status

Other

## Comment Regarding IPR status

For the customization part the project is focused on developing software or simple hardware extensions, such no rights are reserved nor required.

In the recycling section typical industrial hardware should be employed, e.g. sensors or conveyors. The main development will focus on software, so patents are not required here, too.

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## Keywords

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## Technology

01002010	Printed circuits and integrated circuits
01003022	Smart Appliances
10002013	Clean Production / Green Technologies
10003004	Recycling, Recovery
10003009	Rare Earths Metals Treatment

## Market

02007012	Medical/health software
03001007	Circuit boards
07006	Other Consumer Related (not elsewhere classified)
08004002	Chemical and solid material recycling
08004004	Other pollution and recycling related

## NACE

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

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## Network Contact

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### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

Pawel Zebrowski

### Phone Number

+48 91 449 43 64

### Email

pzebrowski@zut.edu.pl

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**Open for EOI :**    **Yes**

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## Dissemination

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### Restrict Dissemination to Specific Countries

Austria,    Belgium,    CzechRepublic,    Denmark,    France,    Netherlands,  
Poland,    Sweden,    Switzerland,

## Client

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### Type and Size of Organisation Behind the Profile

R&D Institution

### Year Established

1995

### 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: Industry, home automation

Role: Co-development of appliances compatible to mobile devices

One part of the project is to develop appliances and interfaces to connect mobile devices to other hardware for customization purposes, e.g. home automation. One idea is to implement used high end devices like smartphones as control unit for surveillance applications. The smartphone could be used as main component in a baby monitor or remote camera. The other possible option is to use the device as management system for different slave units, e.g. list all active electrical sockets. Partners from this region should be experienced with developing and producing home automation applications and devices within Internet of Things (IoT). Mutual benefits would be the elaboration of joint ideas and additional concepts as well as the commercialization of the devices.

Type: Industry, elderly assistance systems

Role: Co-development of appliances compatible to mobile devices

Another part is the support of the elderly by supplying assistance systems to mobile devices. One example is the implementation of an emergency button in combination with voice recognition. A device equipped with such an extension could start an emergency call to a predefined number, if it detects irregular behaviour or an emergency. Other possible options include the development of automated administrations of medications. Such a device could notify the operator of necessary ingestions at different times. Reasonable healthy elderly can be assisted in their daily life by voice navigation focused on older people or by connectivity to home automation and IoT. An example could be a notification in case of a stove plate or gas heater left on. Less dangerous things could be finished washing machines. Partners should be experienced with serving elderly needs and interested in working on this field. Optional benefits would be connections to health insurances.

Type: Industry or academia, recycling

Role: Co-development of plant for high-end devices

The reuse and recycling part is of great importance to this project. The reuse is planned on

several levels. In case of full functionality of the device the complete reuse is intended. On the next level useful components should be extracted. Examples are displays, circuit parts or accumulators. The lowest level reuse is taking place on a component basis. Partners should be familiar with the withdrawal and handling of used high end devices. As it is planned to test for functionality and, if negative, disassemble and reuse parts, experience with this steps is useful and recommended.

Type: Industry, production of mobile devices

Role: Co-development of customization options for mobile devices

In order to cover the complete value chain producers of mobile devices are searched as partners. Possible interactions could be the providing of mobile devices, used or otherwise, as well as the support for developing interfaces for the smartphones. A mutual benefit would be the collaboration for allowing different specialisations of the devices.

### **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**

Research cooperation agreement