

## Research & Development Request

# InnoEnergy Investment Round: Project partner in the field of photonics or optics sought

### Summary

*In order to complete the consortia for a project in the Investment Round 2018 by InnoEnergy, a German company active in the optical branch is looking for a European partner from the commercial, industrial or academic sector, interested in bringing a new technology for wind measurements to the market. Partners should work in the fields of photonics or optics.*

<b>Creation Date</b>	22 August 2018
<b>Last Update</b>	28 August 2018
<b>Expiration Date</b>	15 September 2018
<b>Reference</b>	RDDE20180822001
<b>Public Link</b>	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b3da002f-35eb-403a-9011-354ef9960863">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b3da002f-35eb-403a-9011-354ef9960863</a>

### Details

#### Description

Currently, the German precision engineering company focused on R&D develops a unique measurement technology to remotely measure the velocity of particles and objects with a level of accuracy that was previously unattainable. The system sends out one pulsed laser beam. The light reflects on little particles, the optical system detects the backscattered light, modulates the signal and receives the information about the lateral velocity of the particles.

The first product is a Light Detection and Ranging (LiDAR) device which is able to detect speed and direction of aerosols, and thereby of the wind, in different heights up to 200 m. This data holds the opportunity for a vertical wind profile in high resolution. The advantage to conventional Wind-LiDAR-systems is the drastic reduction of the sample volume. In fact, the company's measurement technique enables remote point measurements of the horizontal wind speed for the first time for commercial purpose.

For a common InnoEnergy project which will bring a new LiDAR technology for wind measurements to the market the German company is looking for partners. These may be from the commercial, industrial or academic sector, specialised in photonics or optics. So far the members of the project consortia are the company itself as the innovator. Furthermore, the subsidiary of a big German energy supplier as a first customer or "early adopter". Two more partners are a well-established German research institute as well as a private company who are going to join the project as associated partners, especially for data evaluation and verification.

The requested partner in the fields of photonics should have profound know-how in the

development and production of customized lasers, as the project aims to construct a special laser. For building a telescope that must detect very weak light reflections and focus on the sensor for the intended wavelength, a company from the optical industry is sought.

The innovative aspect of the project can be described as follows: The first device based on the core technology will allow highly precise measurements of the wind velocity in every class of terrain. It combines the advantages of remote sensing technology (easy to deploy, no permits, height) with the accuracy of a point measurement of a traditional met mast on location. With taller turbines, the wind industry is moving to more and more complex terrains. The lateral LiDAR technology makes it possible to assess these sites. This minimizes the financial risk of multimillion investments in wind park project.

InnoEnergy is member of the European Institute of Innovation and Technol (EIT) Community, an integral part of Horizon 2020. InnoEnergy's goal is to make a positive impact on sustainable energy in Europe, by creating future game changers with a different mind-set, and bringing innovative products, services and successful companies to life.

InnoEnergy develops its activities across a network of offices located in Belgium, France, Germany, the Netherlands, Spain, Portugal, Poland and Sweden. More than 150 partners contribute to InnoEnergy's activities, forming a first class and dynamic network that is always open to new entrants. The company's 27 shareholders are committed to a 7 year industrial plan in which they pledge to mobilize €700 million of resources during the period 2011-2015 alone. InnoEnergy is financially supported by the EIT and, while a profit-oriented company, has a "not for dividend" financial strategy, reinvesting all its profits back into the organization's activities. In the funding program, past research costs (must be related to the topic of the intended project) can also be claimed and thus the individual funding rate can rise significantly above the regular 25%.

The deadline for expressions of interest is 15th of September 2018, as the German company is planning to submit the proposal at the cut-off date 4th of October 2018.

## Keywords

### Technology

04005008	Wind energy
09001007	Optical Technology related to measurements
09001009	Sensor Technology related to measurements
10002010	Remote sensing technology
10002013	Clean Production / Green Technologies

### Market

03005	Laser Related
03007002	Other measuring devices
06003003	Wind energy
08002002	Industrial measurement and sensing equipment
09003005	Consulting services

### NACE

C.26.5.1

Manufacture of instruments and appliances for measuring, testing and navigation

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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 11-49

### Year Established

2015

### Turnover

<1M

### Already Engaged in Trans-National Cooperation

No.

### Languages Spoken

English  
German  
Spanish

### Client Country

Germany

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## Partner Sought

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### Type and Role of Partner Sought

Tasks for missing partners, especially for companies from the fields of photonics or optics could be:

Photonics:

Due to the high demands on the laser, the company is aiming for the construction of a special laser. Therefore the company is looking for a partner, specialized in the development and production of customized lasers.

Optics:

The optical receiving unit, in particular the telescope, must detect very weak light reflections and focus on the sensor for the intended wavelength. Therefore, a company able to design a built such a device would be warmly welcome.

Final responsibilities must be defined during the process.

### Type and Size of Partner Sought

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

### Type of Partnership Considered

Research cooperation agreement

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## Program - Call

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### Framework Program

H2020

### Call title and identifier

InnoEnergy Investment Round - supported by the European Institute of Innovation and Technology (EIT)

### Coordinator Required

No

### Deadline for EOI

15 Sep 2018

### Deadline for Call

04 Oct 2018

### Weblink to the Call

<https://investmentround.innoenergy.com>

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## Attachments

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## Research & Development Request

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# H2020 Fast track to Innovation: Looking for commercial builders, architects or project management companies involved in new housing/commercial building projects to test new design ultra slim infra-red (IR) panel heaters.

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### Summary

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*A UK (lead partner) and Dutch company are looking for an industrial partner to join them in Fast Track to Innovation project which is aimed at developing and testing highly energy efficient ultra slim infra-red (IR) panel heaters for domestic and/or commercial applications. The consortium seeks a partner with expertise in construction sector either as a builder or stakeholder such as architects or project developers via research cooperation agreement.*

<b>Creation Date</b>	24 July 2018
<b>Last Update</b>	17 August 2018
<b>Expiration Date</b>	20 September 2018
<b>Reference</b>	RDUK20180724001
<b>Public Link</b>	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/f1fb79c4-cb00-4a0b-8cd0-10d529e5d808">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/f1fb79c4-cb00-4a0b-8cd0-10d529e5d808</a>

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### Details

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#### Description

Infrared (“IR”) panel heaters have been available for more than 20 years. The vast majority of IR heater panels used in Europe originate from South East Asia and use carbon nano-crystallite ink on copper film conductors. These are generally poorly assembled and of poor reliability.

Critically, that technology is unable to take performance and energy saving further, and is ill-equipped to address the huge commercial/ office potential. Other cheap imported IR panels also appear on the market, made from conventional heater wires ‘cast’ inside plasterboard panels. Their fragility of construction limits their suitability for the target new build markets.

In the past few years the UK SME has carried out the research using bespoke metal/metal oxide mixtures to produce unique thick-film surface coatings, directly onto the surface of articles to be heated. As a result they have developed a new technology to produce ultra-slim, infra-red wall and ceiling panel heaters, operating at low voltages (20-30v), to replace both existing infra-red heater technologies and, more importantly, to replace the dominant convection heating technologies, including boiler fed hot-water radiator systems and electric convection heaters. The proposed technology heats very rapidly and uniformly to ~100oC and will address the ever growing need of highly energy efficient buildings or modular housing. The UK company has

already filed a combined product/process patent.

The UK and Dutch partner are actively seeking a third partner to join them in the bid. The potential partners should have expertise in the construction sector. The potential partner could be a commercial builder, interested to participate in the design phase, and then support with installation of panel heaters in new build houses, modular buildings or big commercial buildings (hotels, leisure centres etc.)

The consortium is also interested in receiving expression of interest from construction sector stakeholders such as project management companies or architecture firms who can influence decisions at the design stage of new builds.

Deadline for the EoI- 31 Aug 2018  
Official deadline for the call- 23 Oct 2018

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## Keywords

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### Technology

004006004	Thermal insulation, energy efficiency in buildings
004008	Energy efficiency
02006004	Installations related to construction (energy, lighting, ...)

### Market

009007001	Construction
09007001	Construction companies
09007004	Engineering and consulting services related to construction

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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

Sustainable Construction

### Restrict Dissemination to Specific Countries

Austria, Belgium, Cyprus, Denmark, Finland, Germany, Iceland,  
Ireland, Italy, Norway, Portugal, Spain, Sweden, Switzerland,  
United Kingdom,

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## Client

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### Type and Size of Organisation Behind the Profile

Industry SME 11-49

### Year Established

2004

### Turnover

<1M

### 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

Type: Industry

Activity & Role of partner: Companies specialised in construction sectors such as commercial builders who can participate in the design phase and then provide support with installation in new builds. Or construction sector stakeholders such as project management companies or architecture firms who can contribute in the design and development phase.

### Type and Size of Partner Sought

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

### Type of Partnership Considered

Research cooperation agreement

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## Program - Call

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### Framework Program

Future and Emerging Technologies

### Call title and identifier

EIC-FTI-2018-2020: Fast Track to Innovation (FTI)

### Submission and evaluation scheme

Single Stage

### Anticipated Project Budget

2 million Euros

### Coordinator Required

No

### Deadline for EOI

20 Sep 2018

### Deadline for Call

31 Oct 2018

### Weblink to the Call

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/eic-fti-2018-2020.html>

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## Attachments

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## Research & Development Request

# H2020-WIDESPREAD-2018-2020:Twinning - Looking for agricultural research partners

### Summary

*Bulgarian university with long-lasting tradition in agricultural research is preparing a project proposal to bid the forthcoming H2020-WIDESPREAD-2018-2020:Twinning call. The project aims at increasing the institutional capacity and raising its research profile in the field of sustainable bio-economy. They are looking for well-known academic/research institutions active in the field.*

<b>Creation Date</b>	10 August 2018
<b>Last Update</b>	14 August 2018
<b>Expiration Date</b>	15 September 2018
<b>Reference</b>	RDBG20180809001
<b>Public Link</b>	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/7ab74937-3aef-4e23-81e4-47fc331a3e2c">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/7ab74937-3aef-4e23-81e4-47fc331a3e2c</a>

### Details

#### Description

Horizon 2020's Twinning call for proposals targets enhancement of scientific and technological capacity of participating institutions with a principal focus on a university or a research organisation from a number of widening (low-R&D performing) countries, Bulgaria among them. Bulgarian university with sound track record in agricultural research is currently preparing a project proposal to apply to the forthcoming Twinning call in November 2018 and is looking for partners to complete its consortium.

The partners' profile must be relevant to the specific intervention fields which the proposal addresses. The university is looking for well-known academic or research institutions from high-R&D intensive countries, active in one or more of the following fields:

- land degradation
- water scarcity
- depletion of soil nutrients
- food security
- biodiversity
- climate change and adaptation
- preservation of the local food systems
- increased rural-urban dependency

The conceptual framework for comprehending and analyzing the relevant levels of project interventions are identified in the following: i) Reinforcing the eco-systems at micro and meso

level, ii) Establishing links between the different sub-systems and iii) Refining framework conditions.

The project proposal recognizes that the core understanding or vision for sustainability is the pathway towards a sustainable future itself. Achieving this is interrelated not only with innovative approach and integration of the sustainability concept within education and research, but rather through exploring methodologies to identify sustainability across disciplines and action research. The ultimate goal of the project is to develop knowledge and skills to operationalize the sustainability of business, industry and society.

As the Twinning scheme considers cross-cutting disciplines positively, it is preferable EoIs to be sent by institutions having also expertise in related matters such as: intellectual property rights, innovation, business aspects, technology transfer, employment issues and research infrastructure and relevant ICT applications.

The project is expected to address Twinning's main challenges using the following (not exhaustive) methodology:

- short term staff exchanges
- expert visits and short-term on-site or virtual training
- workshops
- conference attendance
- organisation of joint summer/winter school type activities
- dissemination and outreach activities

The university is seeking institutions via research cooperation agreement from a range of countries listed below. This is a Horizon 2020's CSA (Coordination and Support Action) and all costs are funded by EC at 100%.

Project duration: 36 months

EOI deadline: 15/09/2018

Call deadline: 15/11/2018

## Advantages and Innovations

The project is referenced to high-level Bulgarian strategic documents, such as the Bulgarian Innovation Strategy for Smart Specialisation and Bulgarian National Roadmap for Research Infrastructure 2017-2023 and EU Policy, such as Food 2030.

All currently confirmed partners (Germany and Spain) have well-recognised research profile on the international stage.

## Technical Specification or Expertise Sought

High-profiled academic institutions with strong expertise in one or more of the following:

- land degradation
- water scarcity
- depletion of soil nutrients
- food security
- biodiversity
- climate change and adaptation
- preservation of the local food systems
- increased rural-urban dependency

## Stage of Development

Proposal under development

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## Keywords

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### Technology

07001004	Crop Production
07001007	Precision agriculture
08001004	Food Processing
08001005	Food Technology
08002003	Safe production methods

### Market

09005	Agriculture, Forestry, Fishing, Animal Husbandry & Related Products
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## Network Contact

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### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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

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## Dissemination

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### Send to Sector Group

Agrofood

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## Client

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## Type and Size of Organisation Behind the Profile

University

## Year Established

1995

## Turnover

100 - 250M

## Already Engaged in Trans-National Cooperation

No.

## Languages Spoken

English

## Client Country

Bulgaria

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## Partner Sought

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### Type and Role of Partner Sought

Type: University/Research Organisation

Role: Organise/Participate in one or more of the following:

- short term staff exchanges
- expert visits and short-term on-site or virtual training
- workshops
- conference attendance
- organisation of joint summer/winter school type activities
- dissemination and outreach activities

### Type and Size of Partner Sought

University, R&D Institution

### Type of Partnership Considered

Research cooperation agreement

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## Program - Call

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### Framework Program

H2020

### Call title and identifier

WIDESPREAD-03-2018: Twinning

### Submission and evaluation scheme

Single stage

### Anticipated Project Budget

EUR 0.8M

### Coordinator Required

No

Ref: RDBG20180809001

**Deadline for EOI**

15 Sep 2018

**Deadline for Call**

15 Nov 2018

**Weblink to the Call**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/widespread-03-2018.html>

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**Attachments**

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## Research & Development Request

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# FET-Open Challenging Current Thinking: Co-development of humanoid/android bipedal robot with advanced intelligent robotic systems

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### Summary

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*A UK company is part of a consortium applying for funding via FET-Open Challenging Current Thinking to co-develop a new humanoid robot with an advanced level of adaptive and intelligent systems. They are seeking EU companies or universities with expertise in one or more of the following areas to co-develop the software/hardware and robots, via research development agreement: machine learning, computer vision, robot hardware/sensors, graphical user interface (GUI) software.*

<b>Creation Date</b>	22 August 2018
<b>Last Update</b>	28 August 2018
<b>Expiration Date</b>	01 December 2018
<b>Reference</b>	RDUK20180822001
<b>Public Link</b>	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/fec1ed3d-5581-48a5-b96a-432d04a2bb64">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/fec1ed3d-5581-48a5-b96a-432d04a2bb64</a>

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### Details

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#### Description

Current development of robots focuses on defining the complex relationship between perception and action, as a binary and reactive phenomenon.

This UK company has a new approach to robotics, that robotic systems represents a significant departure from the conventional way of thinking about robots. The UK's software and systems define perception as the goal of a robot's behaviour. Action in this instance is dynamically varied as a means to achieving these goals.

This fundamentally overturns the current thinking within robotics and Artificial Intelligence and leads to a radically different architecture for robotics systems, and has led to the UK company developing systems that are inherently adaptive, computationally-lightweight, purposeful and scaleable to advanced applications.

The UK company is hoping to incorporate these new systems within a new humanoid/android bipedal robot. That is, a bipedal humanoid robot that could stand up and walk and perform a number of tasks such as picking up objects, opening doors and using tools.

The objective would be achieved through a number of different developmental stages to

incrementally increase the sophistication of the capabilities of the system. For example, the humanoid capabilities could be developed by using an existing system such as the Nao robot ([https://en.wikipedia.org/wiki/Nao\\_\(robot\)](https://en.wikipedia.org/wiki/Nao_(robot))), robot arms, lower-body walking frame and upper-body torso before a full humanoid system is deployed.

Additional robotic systems could be developed on the road to the main goal, such as robotic rovers, balancing robots and multi-legged robots. Each of the robots produced at the developmental stages would be fully-functional robotic applications and products in their own right.

Although the end game is to produce real robotic systems a significant amount of the development could be performed in simulated environments.

As part of the overall development there would also be developed unique processes and techniques for machine learning and computer vision, based upon the PR concepts and principles, that would fundamentally challenge the status quo.

Their current consortium consists of the UK company, a major UK university and a UK project management company.

They are seeking two EU partners with expertise in one or more of the following areas, to help develop the software and hardware of the robots.

- Machine learning (ML)
- Computer vision (may be same as ML)
- Robot hardware/sensors
- GUI Software (for development and implementation of robotics approach)

They are seeking collaboration via research development agreement.

The deadline for EOIs in this profile is 1 December 2018

The deadline for the call is 19 January 2019

## Keywords

### Technology

01001001	Automation, Robotics Control Systems
01003003	Artificial Intelligence (AI)
01003005	Computer Hardware
01003006	Computer Software
01003012	Imaging, Image Processing, Pattern Recognition

### Market

02002003	Graphics software
02007001	Systems software
02007016	Artificial intelligence related software
02007020	Artificial intelligence programming aids
02007021	Other Artificial intelligence related

### NACE

C.26.1.1	Manufacture of electronic components
C.26.2.0	Manufacture of computers and peripheral equipment
J.62.0.1	Computer programming activities
J.62.0.9	Other information technology and computer service activities
M.72.1.9	Other research and experimental development on natural sciences and engineering

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## Network Contact

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### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

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+48 91 449 43 64

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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

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

Type: Industry/Academia

Activity of partner: Expertise or experience (for industry or academia) in machine learning, robot hardware/sensors, graphical user interface (GUI) software, computer vision.

Specific role of partner sought: Activities included in the co-development of a new android robot, which might include the adaptation and incorporation of new intelligent robotics system software, new machine learning techniques and the construction of multi-legged robots and a bipedal android and its sensors, hardware and software.

### Type of Partnership Considered

Research cooperation agreement

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## Program - Call

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### Framework Program

Future and Emerging Technologies

### Call title and identifier

Open Challenging Current Thinking

### Submission and evaluation scheme

Multiple cut-off

### Anticipated Project Budget

€3 million

### Coordinator Required

No

### Deadline for EOI

01 Dec 2018

### Deadline for Call

24 Jan 2019

### Project Duration

104 week(s)

### Weblink to the Call

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/fetopen-01-2018-2019-2020.html>

### Project Title and Acronym

RAPTA - Artificial Human Android

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## Attachments

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## Research & Development Request

# Spanish university seeks partners for Horizon 2020 proposal in the areas of Border and External Security (BES) of the WP Secure societies

### Summary

*A Spanish based Horizon 2020 consortium seeks to improve the current data collection and processing mechanisms at the EU border controls with the objective of establishing a tool that will allow centralizing all information collected when migrants enter the EU territory and use it jointly by all Member States. The consortium is looking for an entity with technological expertise in designing IT tools for the management of migration movements. Topic SU-DRS01-2019 from WP Secure Societies.*

<b>Creation Date</b>	13 June 2018
<b>Last Update</b>	30 August 2018
<b>Expiration Date</b>	30 September 2018
<b>Reference</b>	RDES20180613001
<b>Public Link</b>	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b938cd0a-d798-4ad7-90a9-f7d94334b1c0">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b938cd0a-d798-4ad7-90a9-f7d94334b1c0</a>

### Details

#### Description

##### Overview

One of the priorities of the EU today is to find ways to better enhance border and migration management and internal security. A great part of the information collected at the EU borders remains in national databases or, in the best-case scenario, it is introduced in one of the existing EU information systems (e.g. Eurodac, VIS...). The data collected is only used for identification purposes, and it ultimately determines whether a migrant is in a regular or irregular situation, according to EU laws.

If migrants are regular, they are given a residence permit in the country of entry, or in the case of asylum seekers, they may be relocated in another Member State, as long as they request so and it is legally possible. Yet, no further check of the actual integration possibilities in that host country is conducted. Similarly, if migrants are identified as irregular, they are automatically returned to the countries where they come from, with no further supervision of their fate or labour opportunities in those countries of origin.

Regarding regular migrants, it has been found that successful integration into their host society is essential to maximise the opportunities afforded by legal migration. In order to achieve that,

many factors have to be taken into account. For instance, the professional background and language skills of migrants are important for their integration, and so are the age, ethnic background, and the labour conditions of the host country.

As for irregular migrants, many international organisations and NGOs have been working on projects that seek to enhance integration and labour opportunities for returned migrants into their countries of origin. This is possible by studying the profile of those migrants and identifying the right locations where returned migrants could be able to integrate and find a job. In order to do that, many criteria should be taken into account: age, ethnic and professional background of the individual, labour conditions, demography, existing aid projects in the territory, etc.

## Project

The project seeks to improve the current data collection and processing mechanisms at the EU border controls, by a tool that will allow centralizing all information collected when migrants enter the EU territory and use it jointly by all Member States. It mainly seeks to facilitate the integration of regular migrants in the host countries among the 28 and offering better conditions for returned migrants in their countries of origin.

The goal is to develop a data-driven algorithm to optimize the process by which regular /irregular migrants are assigned to locations within or outside the EU. Such an algorithm will mine other multiple historical cases and will detect systematic patterns. Therefore, when individual characteristics of the new migrant will be introduced, it will check in what territory previous migrants with a similar profile have successfully integrated and it will also give a description of the labour opportunities, integration policies, public sentiment in the area, demography of the territory, and all other relevant information.

In order to decrease the number of irregular migrants in the EU, this IT system will also collect data of the situation in the major countries of origin where migrants come from, with the aim of understanding the reasons why those migrants decide to leave their countries. It will also identify projects and initiatives in those countries in which the EU could participate, and that would improve life and labour opportunities there.

## Partnerships

It should be an IT platform developer. Additional partners have not been contacted yet.

The project proposal will be submitted to Horizon 2020 WP Secure Societies under the topic SU-DRS01-2019: Human factors, and social, societal, and organisation aspects for disaster-resilient societies.

Call Deadline: 22/08/2019

EOI Deadline: 30/09/2018

Estimated duration of the project: 36 weeks

## Technical Specification or Expertise Sought

The company or entity will have the technical background in designing IT tools to create an IT-platform for the management of migration movement. It will then combine the data obtained from different sources. This will centralize in one single information system all relevant data for managing migration flows. The IT tool will:

1. Facilitate regular migrants' distribution among the Member States guaranteeing their better integration possibilities.
2. Offer solutions in the countries of origin for those migrants who need to be returned.

Besides, the IT tool will require an architectural specification (scenarios, requirements, versions), platform development and implementation, and also validation, evaluation and trials

by the designated end-users. The Universal Message Format (UMF) will be the technical language used to access the data, according to draft Interoperability Regulation.

## Stage of Development

Proposal under development

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## Keywords

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### Technology

01003002	Archivistics/Documentation/Technical Documentation
01003006	Computer Software
01003010	Databases, Database Management, Data Mining
01003012	Imaging, Image Processing, Pattern Recognition
01003018	User Interfaces, Usability

### Market

01006001	Defence communications
02007002	Database and file management
02007007	Applications software
02007014	Other industry specific software
02007015	Integrated software

### NACE

M.69.1.0	Legal activities
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

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

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Open for EOI : **Yes**

## Dissemination

### Send to Sector Group

ICT Industry and Services

### Restrict Dissemination to Specific Countries

Austria, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia,  
Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania,  
Poland, Romania, Slovakia, Slovenia, Sweden,

## Client

### Type and Size of Organisation Behind the Profile

University

### Year Established

0

### Already Engaged in Trans-National Cooperation

No.

### Languages Spoken

English  
Spanish

### Client Country

Spain

## Partner Sought

### Type and Role of Partner Sought

There are 2 kinds of partner sought:

1. Company or organisation with technological background and expertise in designing and/or creating IT tools with characteristics specified in the following role:

Creation of an IT-platform for the management of migration movement. The main output is to create an IT tool that centralises all relevant data regarding integration possibilities in the EU and in migrants' origin countries and that improves integration outcomes of migrants or their re-integration in origin countries via algorithms and machine learning techniques.

The purposes of the IT tool are:

- Improving the integration of regular migrants.
- Optimising relocation within the EU and integration of asylum seekers and refugees.
- Facilitating return of rejected asylum seekers and their re-integration, and
- Determining the routes of irregular migrants and smugglers.

It will combine the data obtained from different sources. This will centralize in one single information system all relevant data for managing migration flows. The aim is 1) facilitating regular migrants' distribution among the Member States and guaranteeing their better integration possibilities, and 2) offering solutions in the countries of origin for those migrants who need to be returned. The platform will consist of three algorithms: one for optimising refugees' relocation and the overall integration of regular migrants, another algorithm regarding the deportation regime, increasing the guarantees and opportunities of irregular migrants that are returned to their countries of origin; and another to determine the routes of irregular migrants and smugglers.

2- Company or organisation with previous experience in examining migration dynamics in the countries of origin and in the prediction of migration flows:

It will specifically examine the situation in the major countries of origin of European immigrants and develop measures for the improved recognition and control of migratory movements. For that purpose, this company will assess the reasons why potential migrants decide to leave their countries, which resides on a lack of economic prospects at home for large parts of the migrant population include a threat of armed conflict and inefficient political institutions.

Examining the migration decisions from the country of origin, and suggesting ways to create local economic developments in those countries are two core objectives of this study. It will also analyse specific aspects like the relationship between inequality in the origin country and emigration. It will help identify why migrants seek to arrive in the EU in the first place, and how people from different strata of society choose different options to enter destination countries (e.g., permanent and temporary work visa, study visa, different forms of irregular migration). Besides, it can help to guarantee better ways of returning those who ended up as irregular migrants in the EU.

The milestone for this study is to have a clear picture of the reasons why migrants choose to leave their countries of origin to live in a Member State, taking into account all the factors examined in this part of the study.

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

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

### **Type of Partnership Considered**

Research cooperation agreement

## **Program - Call**

### **Framework Program**

Secure societies – Protecting freedom and security of Europe and its citizens

### **Call title and identifier**

WP Secure societies - Protecting freedom and security of Europe and its citizens.  
 SU-DRS01-2019: Human factors, and social, societal, and organisational aspects for disaster resilient societies.

### **Coordinator Required**

No

**Deadline for EOI**

30 Sep 2018

**Deadline for Call**

22 Aug 2019

**Project Duration**

36 week(s)

**Weblink to the Call**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/su-drs01-2018-2019-2020.html>

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**Attachments**

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## Research & Development Request

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# H2020-SC3-RES-1-2019 : Companies with expertise in photovoltaics fabrication, power device, sensors are sought

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### Summary

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*A French university will act as a coordinator of a European project aimed at developing new approaches for the fabrication of power devices. The consortium has identified 2 relevant calls to implement this project : LC-SC3-RES-1-2019 and LC-NMNP-32-2019. Industrial partners active in semiconductor electronics/sensor/photovoltaic (PV) are sought to complete the consortium.*

<b>Creation Date</b>	20 February 2018
<b>Last Update</b>	17 August 2018
<b>Expiration Date</b>	30 November 2018
<b>Reference</b>	RDFR20180219001
<b>Public Link</b>	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/44e4e022-8c86-48d6-9494-39426c1631eb">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/44e4e022-8c86-48d6-9494-39426c1631eb</a>

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### Details

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#### Description

The objective of the PROXY consortium is to develop a solution addressing the issue of efficient energy conversion. The consortium will develop novel approaches for the fabrication of power devices/ PV cells / sensors via the adoption of a new and environmentally friendly electronics technology based on the emerging, cost effective and earth abundant element based wide bandgap (WBG) semiconductor.

The consortium already includes academics and companies:

1. French University (Coordinator)
2. University , Germany
3. Institute - Spain
4. University - UK
5. University - Georgia
6. University, Finland
7. French SME- France

The partners already selected in the consortium are expert in raw material research, manufacturing of epiwafer, PV cells, power device, recycling, life cycle assesment, economic quantification.

During the project, the consortium plans to demonstrate



that novel methodologies and technologies for the fabrication of beyond state-of-the-art power devices /PV cells/sensors would also simultaneously offer both lower cost and higher performance.

Design issues related to green electronic devices (on the base of non toxic material) for moving toward device miniaturization, with reducing cooling requirements (water waste) will be also taken into account.

The device potential environmental impact and the potential market by designing a circular economy model will be also included in the project.

At the end of the project, the TRL 4 should be reached.

A SME and A MNE are sought to complete the consortium.

Two topics have been identified by the consortium :

LC-SC3-RES-1-2019-2020: Developing the next generation of renewable energy technologie - 2 stages - 1st deadline 16 October 2018

LC-NMBP-32-2019 : Smart materials, systems and structures for energy harvesting - 2 stages - 1st deadline 22 January 2019

Deadline for expression of interest are August 31st 2018 and October,31st 2018.

The project PROXY has duration of 40 months.(173 weeks)

## Advantages and Innovations

Brief description of the state of the art:

Among semiconductors, Silicon(Si) is the foundational technology against which all others are compared.

Research has approached the atomic limit of scaling for Si to reach the pinnacle of its performance and the fundamental limitations of Si performance at the device level have been identified .There still remain applications and functions that are out of reach for this material.

PROXY proposes the new generation ultra high band gap wafer growth/characterization and device fabrication.

Potential Applications of devices:

- power electronics (energy transmission, conversion, electrical vehicles, etc)
- high-temperature signal processing
- harsh environment electronics = aeronautic, automotive, industry, remote location and space with respect to harsh-environment operation
- wireless communication devices/circuits, chemical sensing = IoT
- PV cells

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## Keywords

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### Technology

01002012

Semiconductors

02007022

Conductive materials

Ref: RDFR20180219001

04002005 Generators, electric engines and power converters  
04005004 Photovoltaics

## Market

03001001 Semiconductors  
03003 Power Supplies  
03004001 Semiconductor fabrication equipment and wafer products  
06002003 Power grid and distribution  
06003002 Photovoltaics

## NACE

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

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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

### Restrict Dissemination to Specific Countries

Austria, Belgium, Bulgaria, Canada, Croatia, Czech Republic, Denmark,  
Estonia, Finland, France, Georgia, Germany, Greece, Hungary,  
Ireland, Israel, Italy, Latvia, Lithuania, Luxembourg,  
Macedonia, The former Yugoslav Republic of, Malta, Moldova, Montenegro,  
Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia,  
Slovenia, Spain, Sweden, Switzerland, Ukraine, United Kingdom,

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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  
Russian  
French  
Spanish  
Italian

### Client Country

France

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## Partner Sought

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### Type and Role of Partner Sought

- SME interested in power device / sensors/ PV cells fabrication .The SME will act as an “end user”.

- Industrial (MNE), to integrate into the consortium an advisory or management board member, giving guidelines and promoting the circular economy model for gallium.

### Type of Partnership Considered

Research cooperation agreement

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## Program - Call

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### Framework Program

H2020

### Call title and identifier

LC-SC3-RES-1-2019-2020: Developing the next generation of renewable energy technologie

LC-NMBP-32-2019 : Smart materials, systems and structures for energy harvesting

### Submission and evaluation scheme

Two-stage submission scheme: a short proposal for the first stage followed by full proposal for the second stage, if it passes the first-stage evaluation.

Ref: RDFR20180219001

**Coordinator Required**

No

**Deadline for EOI**

30 Nov 2018

**Deadline for Call**

22 Jan 2019

**Weblink to the Call**

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/lc-sc3-res-1-2019-2020.html>

**Project Title and Acronym**

Gallium oxide based Oxytronics - PROXY

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**Attachments**

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## Research & Development Request

# FTI - Fast Track to Innovation: Smart Monitoring & Control and use interactive ecosystem for improving energy efficiency and economic maintenance of medium-weight ships (SCOUT)

### Summary

*A Spanish SME is preparing a full proposal to the Horizon 2020-Fast Track to Innovation, project Smart Monitoring & Control, use interactive ecosystem for improving energy efficiency and maintenance of ships. The company is looking for a partner with expertise in the maritime transport of passengers and cargo. The sought partner will contribute to both, SCOUT ecosystem development by providing specialised expertise in the arena and to the commercialisation strategy definition and implementation.*

<b>Creation Date</b>	20 July 2018
<b>Last Update</b>	14 August 2018
<b>Expiration Date</b>	23 April 2019
<b>Reference</b>	RDES20180612001
<b>Public Link</b>	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/7a4b42aa-cb64-40f3-811d-2914c4ff2bb6">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/7a4b42aa-cb64-40f3-811d-2914c4ff2bb6</a>

### Details

#### Description

The technology system, installable in vessels of any age, with relatively low cost of installation and maintenance, performs a thorough in depth analysis of the working conditions of the vessel and fleet. Based on the data captured a set of very advanced algorithms is applied in order to infer patterns of behaviour, both mechanical or staff, which can predict a mechanical fault or a misbehaviour.

The proposal focuses in three main lines: maintenance cost optimisation, fuel consumption reduction in operations, and fleet management optimisation.

The partner will be fundamental in the following stages:

- WP1: Product improvement (from TRL6 to TRL9)
- WP2: Industrialization of production
- WP3: Road to market and operation
- WP4: Great scale demonstrators
- WP5: Strategic and operational management

- WP6: Dissemination and communication activities

The deadline for the project submission is 23 May 2019.  
The deadline for EOIs in this profile is 23 April 2019.

## Stage of Development

Proposal under development

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## Keywords

### Technology

01004006 Environment Management Systems  
04007001 Energy management

### Market

06011 Energy for Transport

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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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## Client

### Type and Size of Organisation Behind the Profile

Industry SME 50-249

Ref: RDES20180612001

## Year Established

0

## Already Engaged in Trans-National Cooperation

No.

## Languages Spoken

English  
Spanish

## Client Country

Spain

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## Partner Sought

### Type and Role of Partner Sought

A company that owns key technologies in maintenance services, surveillance, communication and navigation in the maritime area.

The company should perform ICT field business related to some of these:

- Maintenance services: high quality vessel repair and maintenance services (e.g.: engines) for all types of vessels, including small and medium sized vessels.
- Safe navigation: Navigation ICT device for Small Vessel, Convergence Device for Search & Rescue, Communication Device (AIS, Digital VHF-DSC, SART, etc.)
- National Security: Display System (Situation Room), Airborne Location Tracking/Monitoring, Coastal Surveillance/Guard based on Radar, AIS, V-Pass based.
- Maritime Communication: Digital communication devices (For base station, vessel, aircraft, SAR), Data Integration.
- Safety and Security: Sharing information with national situation control centres (National crisis management centre, GICOMS)
- Marine Environment: Cargo Ship Location Tracking System, Oil dispersion prediction/analysis, Marine Ecosystem Distribution Map, Pollution Dispersion/Response System, Maritime Traffic.
- Maritime Command, Control & Information System (MC2IS): Vessel Traffic Monitoring System (VTMS), Intelligence System of Situation, Cognition/Analysis, AIS/VMS/GMDSS/LRIT.

The company should count with a relevant portfolio of customer fleets or a distributor network providing that portfolio.

### Type and Size of Partner Sought

251-500

### Type of Partnership Considered

Research cooperation agreement

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## Program - Call

### Framework Program

Smart, green and integrated transport

**Call title and identifier**

EIC-FTI-2018-2020: Fast Track to Innovation (FTI)

**Coordinator Required**

No

**Deadline for EOI**

23 Apr 2019

**Deadline for Call**

23 May 2019

**Weblink to the Call**

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/eic-fti-2018-2020.html>

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**Attachments**

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