enterprise europe network

Bavarian Research Alliance

HORIZON 2020

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INDUSTRIAL LEADERSHIP	2 offers (1 new)
SOCIETAL CHALLENGES	4 offers (2 new)

PARTNERSEARCH OFFERS FOR EUROPEAN PROJECTS

EUREKA	3 offers (1 new)

PARTNERSEARCH FOR TECHNOLOGY COOPERATION

Technology Offer	3 offers (3 new)
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Excellent Science

ID	**RDES20190122001** 
Call	**H2020-FETOPEN-01-2019:** **FET-Open Challenging Current Thinking**
Title	**3D cell culture model of the female reproductive system**
Abstract	Endometriosis, uterine infections and hormonal problems are reproductive disorders that impair fertility in human and other animal species. Infertility negatively affects health and welfare and carries severe economic losses to livestock up to 1.4 billion €/year just in EU. The project will develop a 3D cell culture model of the female reproductive system (human, bovine, porcine and dog) from last updates in the field. This proposal will provide alternatives to animal testing, increase the efficiency of treatments for female infertility –including human- and improve animal production.
Partners Sought	Type of Partners sought: • SME
	Specific area of activity: Expertise in: • Nano-systems for 3D cell culture • Diagnostic tool development • Medical Technology / Biomedical Engineering
	Tasks to be performed: • Collaborate in the 3D cell culture model of the female reproductive system
Link	Full Version — RDES20190122001
Deadline	**Internal Deadline: 02.05.2019— Call Deadline: 19.09.2019**

Industrial Leadership

ID	**RDFR20181220001** 
Call	**H2020-SME-Instrument-Phase 2**
Title	**Innovative dry-vermicomposting toilet**
Abstract	The project is aiming at developing dry toilets integrated into storey buildings with the possibility to transform waste into agricultural resources. This new technology is environmental friendly and meets the challenges related to Global Warming and water scarcity, in particular in urban area. Indeed, these innovative toilets don't use water, artificial chemical, and are energy saving (very few power is needed). Moreover, this technology meets the challenges related to waste management: faecal matters are transformed into resources for urban agriculture and gardening, avoiding the use of chemical fertilizers.
Partners Sought	Type of Partners sought: • SME Specific area of activity: • Private laboratory or company with skills and deep experience in microbiology • Company in the field of urban agriculture with skills in agronomy Tasks to be performed: • Raise current technological bolts in the field of the valorisation of faecal matter • Work on health issues, conservation and nutritional quality
Link	Full Version — RDFR20181220001
Deadline	**Internal Deadline: 20.03.2019— Call Deadline: 03.04.2019**

Industrial Leadership

ID	**RDES20181105002** 
Call	**H2020-SME Instrument Phase 2**
Title	**Internet of Things domestic water controlling device**
Abstract	The new evolution to be developed during the project will be the first IoT domestic water controlling device in the world. Besides the activation and temperature measurement, the new device will control the amount of water saved in every use, so the user knows when Return on Investment (ROI) happens. The project relates to their patented technology, which aims at creating more sustainable housings, businesses and people. The main purpose of the technology is to help reduce the amount of water needed every time hot water wants to be consumed. As it is widely known, when the user wants hot water, there is a certain amount of cold drinking water that must be wasted before the water comes hot. They thought it should not be that way. This technology is already in the Spanish market in a basic version. What they want to do now is creating an evolution based on notably increased connectivity and functions towards the IoT/ Smart City market.
Partners Sought	Type of Partners sought: • SME or larger company Specific area of activity: • Facilitator for the implementation of the technology in several sites (whole buildings, individual houses or businesses) , expertise in construction Tasks to be performed: • Analysis of the technology and its compliance with local building and installation norms • Analysis of modifications to be made in the technology in order to: solve problems, improve efficiency or applicability • Comply with local directives and norms, addition of functions as a result of user experience
Link	Full Version — RDES20181105002
Deadline	**Internal Deadline: 01.03.2019— Call Deadline: 01.03.2019**

Societal Challenges

ID	**RDGR20190130001** 
Call	**H2020-SC5-09-2018-2019:** **New solutions for the sustainable production of raw materials**
Title	**Recovery of transition metals from seawater**
Abstract	The project aims towards the development of a new generation of porous adsorbents able to bind specific transition metals (TMs - Cu, Co, Pt, Pd, Ag, Au, Mo, Ni, V) from seawater or brines and devise cost-effective and sustainable procedures for TM desorption / sorbent regeneration (TM mining from seawater). To this goal, three categories of adsorbents will be developed, and tested to optimize their capacity to adsorb and desorb valuable transition metals, and select the most suitable ones for engineering configuration and scale-up.
Partners Sought	Type of Partners sought: • SME or larger company • R&D Institution • University
	Specific area of activity: • Partners with expertise in metal adsorption / desorption processes, adsorbent regeneration, seawater/brine processing, life cycle assessment and/or cost benefit analysis • Industrial partner with access to desalination unit
	Tasks to be performed: • Joint development of the technology (research cooperation agreement)
Link	Full Version — RDGR20190130001
Deadline	**Internal Deadline: 15.02.2019— Call Deadline: 19.02.2019**

Societal Challenges

ID	**RDES20190117001** 
Call	**H2020-SC1-DTH-01-2019: Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment**
Title	**Platform for analysing data related to children leukaemia**
Abstract	The project aims to create a network of knowledge in genetic data, treatment data, health data, self-reported health-related quality of life (HRQOL), psychosocial, environmental and lifestyle data in patients suffering leukaemia and will also consider other gender, education, and demographic factors. Once the ontology network of knowledge is created, new data driven analytic and advance simulation methods will be studied and selected to understand casual mechanisms and improve forecast of ill-health identifying diseases trajectories and relapse.
Partners Sought	Type of Partners sought: • SME or larger company
	Specific area of activity: • Manufacturer of devices for health data recovery using internet of things, such as bracelets, watches or others
	Tasks to be performed: • Development of the best devices for recovery of requested data and manufacture the prototype devices to be validated during demonstrative phases
Link	Full Version — RDES20190117001
Deadline	**Internal Deadline: 14.02.2019— Call Deadline: 24.04.2019**

Societal Challenges

ID	**RDES20181128001** 
Call	**H2020 LC-GV-03-2019:** **Smart, green and integrated transport**
Title	**Developing an urban lab to test and deploy Electric Vehicles**
Abstract	The project aims at **removing the barriers for large-scale uptake of e-mobility** by means of providing **new user-friendly charging solutions** adaptable to the needs of different e-mobility users. This includes low power cheap charging for overnight parking and light Electric Vehicles, superfast charging supporting long-range travels, and automated charging solutions for increased convenience and user-friendliness. The developed solutions will be scalable towards electric road systems and usable for automated vehicles. A planning tool will be developed to guide the optimal deployment of a charging infrastructure that is adapted to the needs of the users and the society as a whole, considering both power grid limitations, availability of renewable energy sources and local energy storage.
Partners Sought	Type of Partners sought: • Large company Specific area of activity: • Leading and follower cities, based in the EU or H2020 associated country with the capacity to develop and implement the regional transport policy related to the deployment of Electric Vehicle Tasks to be performed: **Create an urban lab to test new solutions and business models**: • Raising awareness /dissemination of EV uptake benefits; • Provide the public sector perspective to the project and make sure the solutions tested in the project can be applied in their respective cities. • Ability to involve another key stakeholder in the city /TEN-T surrounding areas. • Commitment to learn from leading cities, study the Living Labs and its findings in the later and explore possible replicability of solutions
Link	Full Version — RDES20181128001
Deadline	**Internal Deadline: 28.02.2019— Call Deadline: 22.10.2019**

Societal Challenges

ID	**RDFR20180219001** 
Call	**LC-SC3-RES-1-2019: Developing the next generation of renewable energy technologie** **LC-NMBP-32-2019: Smart materials, systems and structures for energy harvesting**
Title	**Gallium oxide based Oxytronics**
Abstract	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 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.
Partners Sought	Type of Partners sought: • SME and large industry Specific area of activity: • Industrial partners active in semiconductor electronics /sensor /photovoltaic (PV) Tasks to be performed: • **SME** will act as an end user testing the product • **Industrial (MNE)** to integrate into the consortium an advisory or management board member, giving guidelines and promoting the circular economy model for gallium
Link	Full Version — RDFR20180219001
Deadline	**Internal Deadline: 29.05.2019— Call Deadline: 21.07.2019**

Eureka Eurostars

ID	**RDTR20190121001** 
Call	**Eureka Eurostars 2**
Title	**Bee Hive Sensing for predicting the risk of colony collapse**
Abstract	The aim of the project is to develop a technology for remotely controlling all hives by using a smart phone application. Within the system, beacon based sensors are placed in the bee hives to monitor hive weight, temperature, humidity and sound, on a continuous basis. The graphic interface of bee hive monitoring is easy to interpret and is "user-friendly". Furthermore, the humidity and temperature will be able to be controlled remotely to maximize possible alternative essential oil Varroa mite treatments and to boost brood production in the early spring months. All of the continuous data collection and remote controls of the hives will be displayed on one smart phone application. Data collection will be uploaded to the smart phone continuously using already existing cell phone network technology.
Partners Sought	Type of Partners sought: • SME or larger company • R&D Institution • University
	Specific area of activity and tasks to be performed: • **Cloud System Designer** for IoT applications and phone applications (IOS and Android) • **Drug producer** for beehives against varroa, nosema,…etc
Link	Full Version — RDTR20190121001
Deadline	**Internal Deadline: 30.04.2019— Call Deadline: 03.06.2019**

Eureka Eurostars

ID	**RDKR20180830001**
Call	**Eureka Eurostars 2**
Title	**Genome Data Processing Hybrid Cloud**
Abstract	A Korean company provides Hybrid Genomics Cloud, which is the **optimal cloud computing environment for genomics service**. The technology allows to create and run various genome analysis pipelines. It also contains distributed storage, which stores a large amount of genetic data efficiently. The company wants to collaborate with partners to innovate their genetic analysis platform that has never been found anywhere in the world. The project will lead their platform to develop the following updated functions: 1) **Next Generation Sequencing** (NGS) distributed clustering technology for high capacity of genetic data 2) Lightweight container-based Next Generation Sequencing (NGS) genome analysis pipeline technology 3) **Multicloud-based NGS genome analysis platform** technology 4) **Distributed graph database technology** for storage and additional analysis of high-capacity genomic data
Partners Sought	Type of Partners sought: • SME or larger company • R&D Institution • University Specific area of activity: • Healthcare, NGS • Bioinformatics or genome clinical research, performing NGS genomic analysis Tasks to be performed: • Development of hybrid cloud system for the analysis (research cooperation agreement)
Link	Full Version — RDKR20180830001
Deadline	**Internal Deadline: 14.08.2019— Call Deadline: 14.09.2019**

Eureka Eurostars

ID	**RDKR20181114003**
Call	**Eureka Eurostars 2**
Title	**Internet of Things (IOT) security technology**
Abstract	The Korean SME established in 2004 has been a portal system development company based on global web agency. They are interested in web-based security technology, such as IoT security and internet disorder solution SW. The company is hoping to develop a diagnostic system in order to detect data forgery, interfering authentication, and signal data infiltration based on AI (Artificial Intelligent). Moreover, prediction of failure and protection of confidential information should be able without human intervention. Therefore, the company is seeking partners to **develop IoT security technology** that is applied on prediction system of failure based on AI with the advanced functions of access control, attack prevention, and forgery prevention by submitting Eurostar2 proposals under research cooperation agreement.
Partners Sought	Type of Partners sought: • SME or larger company • R&D Institution • University Specific area of activity: • Product Development partners in the security products, systems, and applications Tasks to be performed: • Engage in development of IoT security solutions with improvement of existing functions to be applied on diagnostic system and the failure prevention system (research cooperation agreement)
Link	Full Version — RDKR20181114003
Deadline	**Internal Deadline: 14.08.2019— Call Deadline: 14.09.2019**

Technology Offer

ID	**TOAT20190124001** 
Title	**First 100 % plastic based solar thermal system**
Abstract	An Austrian SME developed the first all-in-one solar thermal system made of 100 % polymers replacing high-cost individual components. The novel technology **reduces costs and complexity essentially via the provision of an all-in-one system** (collectors, pipes, pumps, hot water tank) made of 100 % polymers replacing high-cost individual components. Since polymers can be processed flexibly and are very suitable for fabricating complex functional components, automating these processes is straightforward. Due to this the novel technology makes it possible to produce a ready to use solar water heating system that enables end-users to **gain energy at very low costs** (starting at 0.01 € / kWh). Consequently this technology enables specific people in regions with lower-income and people in rural areas (missing infrastructure, off-grid) to use solar thermal energy.
Partners Sought	Stage of Development: • Prototype available for demonstration
	Type of Partners sought: • SME or larger company
	Specific area of activity: • Manufacturers of solar thermal systems
	Tasks to be performed: • Establishing a manufacturing plant in the region of interest • Technical distribution (license agreement)
Link	Full Version — TOAT20190124001
Deadline	**Internal Deadline: 02.02.2020**

Technology Offer

ID	**TOCZ20190121002** 
Title	**Production machine for semiconductor and nanotechnologies production**
Abstract	A Czech company offers **equipment for a Chemical Vapour Deposition** (CVD) for both mass production and/or for demanding R&D. The tools can be used for process development and materials growth in many areas of research including semiconductor, photovoltaic (PV), and other nanotechnological applications. The main product of the company is a horizontal diffusion furnace, which is a type of **a chemical reactor that can produce at high and defined temperatures integrated circuits or solar cells**. The furnace is able to add ultra pure gas or liquid mediums. For certain processes a reactor with vacuum or plasma generator is used.
Partners Sought	Stage of Development: • Already on the market
	Type of Partners sought: • SME or larger company • R&D Institution
	Specific area of activity: • Advanced partner (bigger production company or research institution)
	Tasks to be performed: • Production of semiconductors with the production machine
Link	Full Version — TOCZ20190121002
Deadline	**Internal Deadline: 29.01.2020**

Technology Offer

ID	**TOFR20181217001** 
Title	**Digital real-time management and optimisation solutions for public transport networks**
Abstract	The French SME offers intelligent transportation systems which cover wireless and cloud-based transportation management solutions: digital and accessible small and mid-sized networks (CAD/ AVL, geolocation, monitoring, fare management, student tracking, real time passenger information services). These solutions can be combined or used separately depending of the needs of the final users. The company has established itself as a European pioneer and leader in the digital transformation of rural territories as well as a key actor of sustainable, safe and comfortable mobility. After only 6 years in operation, the French company has already convinced over 100 transportation networks on 3 different continents with the highest satisfaction rate.
Partners Sought	Stage of Development: • Already on the market
	Type of Partners sought: • SME or larger company
	Specific area of activity: • Private or public transport companies (bus companies, public transit agencies operating fixed-route, intercity and demand-response transportation networks) • Local authorities or transportation actors
	Tasks to be performed: • Technical partnerships (commercial agreement with technical assistance, technical cooperation) • Participation in collaborative projects
Link	Full Version — TOFR20181217001
Deadline	**Internal Deadline: 30.01.2020**

Technology Request

ID	**TRUK20190201001**
Title	**New materials to simplify the creation, manufacturing and end of life processing of polyolefins**
Abstract	New materials and methods are sought that promise to **simplify the creation, manufacturing and end of life processing**, whilst not compromising in performance. There is scope to develop new materials with the intention to replace wood, metal, concrete or glass. The company is not involved in the downstream processing or recycling of these specialised grades. However, as these polymers are often used in emerging markets and new applications, **close relations with downstream users** allow for raising the profile of eco-friendly materials and exploring ways for recycling or reuse.
Partners Sought	Type of Partners sought: • SME or larger company • R&D Institution • University • Inventor
	Specific area of activity: • Expertise in chemistry and materials science
	Tasks to be performed: • Send non-confidential description of their proposals and stage of development
Link	Full Version — TRUK20190201001
Deadline	**Internal Deadline: 02.02.2020**

Technology Request

ID	**TRNL20190130001** 
Title	**Looking for data solutions to predict coating performance**
Abstract	The Dutch multinational is a producer of paints and coatings. They are looking for data solutions for **predicting performance of their coatings**. How can they collect and augment data more innovatively to make predictions for real world surface performance more accurate and help them to speed up the process of bringing new products to the market. The solution should generate, **collect or augment data on performance quickly and accurately**. It should allow the development of more robust predictable performance models, either in surface monitoring of coating performance in real time, or even predict future behaviour.
Partners Sought	Type of Partners sought: • SME • R&D Institution • University
	Specific area of activity: • Global innovators, start-ups, scale-ups, early stage tech companies
	Tasks to be performed: • Joint development of the technology, under shared-IP conditions, (e.g. research or technical cooperation agreement)
Link	Full Version — TRNL20190130001
Deadline	**Internal Deadline: 05.02.2020**

Technology Request

ID	**TRBE20181107001** 
Title	**Non toxic insect glues to be tested and spread on specific materials**
Abstract	The SME has developed a new model of device trapping on different species of insects. The novelty of the device is in its architecture. The company is now **searching for different type of glue adapted to different insect species**, mainly bed bugs, ants and cockroaches. The glues shall be aligned with the company principles of not using synthetic pesticides. The company is looking for a glue provider that will ship glues to Belgium and will provide technical support to **spread the glue on specific materials (cardboard/plastics)**. It is searching for a hot-melt glue with a high-tack adhesive.
Partners Sought	Type of Partners sought: • SME or larger industry • R&D Institution • Inventor
	Specific area of activity: • Glue provider
	Tasks to be performed: • Deliver glues meeting all the requirements and technical help to spread them on specific materials (commercial agreement with technical assistance)
Link	Full Version — TRBE20181107001
Deadline	**Internal Deadline: 02.02.2020**