

TECHNOLOGY TRANSFER E-BULLETIN

Date: 02.06.2020



GERMANY

TRDE20200316001

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A German SME specialized in metal and plant engineering wants to design novel reactors. The team is developing an innovative pyrolysis reactor in the field of recycling management. The company is looking for experts in simulation of thermal process and pyrolysis to compare the technical developments with theoretic predictions. The partner should be able to simulate the thermal processes and the material flows in the heating and cooling layers. A research and/or technical cooperation is sought.

GREECE

TRGR20200408001

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A Greek company, one of the largest producers in Europe, produces high voltage cables. The company seeks to determine the level of cable integrity by assessing their temperature under voltage. The company is looking for a technological solution to measure the temperature from 0 to 150°C of high voltage cables. Companies or laboratories are sought for commercial agreement with technical assistance or technical cooperation agreement, depending on the level of preparation of the proposed solution.

SCOTLAND

TRUK20200506001

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A Scottish (UK) based publicly funded organisation working with companies across the built environment sector is seeking technology based solutions to help maintain Safe Operating Procedures on construction sites, including means to work at a safe distance. Ideally these solutions will also incorporate other features to assist with the management of safe operations. The organisation seeks research or technical cooperation agreements or commercial agreements with technical assistance.

THE NETHERLANDS

TRNL20200331001

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A Dutch manufacturer of fruit juice concentrates is looking for innovative technologies to reduce the volume, the Chemical Oxygen Demand (COD)-load and the amount of cleaning agents in their waste water to reduce cost and achieve a more sustainable operation. The company is looking for partners to cooperate in the frame of a technical cooperation agreement. This request refers to an innovation challenge published on an open platform.

THE NETHERLANDS

TRNL20200526001

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The Dutch company is an event and exhibition venue in the middle of the Netherlands. Due to Covid-19 the Dutch government has cancelled all public events until September 1st. The company is looking for concepts, business models and partners for safe commercial events, alternative use of their square meters and parking-space and solutions to make large scale events safe. The company prefers to share risks and revenues in a Joint Venture. This request refers to an open innovation platform.

PORTUGAL

TRPT20200508001

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Portuguese SME, active in healthcare market acts in the following main activity areas: physical and vestibular rehabilitation, physiotherapy, healthcare IoT, robotics and telemedicine. The SME looks for medical device manufacturers and industry/research institutions that develop OEM healthcare IoT devices to integrate in a new platform that is being built to provide a quicker analysis on patients. Commercial agreement with technical assistance and/or services agreements are sought.

THE NETHERLANDS [TRNL20200423001](#) [Full text here](#) [Request the address](#)

A Dutch company is part of a leading multinational and produces high-quality and innovative fertilizers. Currently, the use efficiency does not meet the high demands of a sustainable agriculture. They are seeking companies, academics and other experts in fertilizers, agriculture, crop growth and nutrient use efficiency with novel technologies and ideas to increase the effectiveness of the use of fertilizer. Cooperation is anticipated via research or technical cooperation or license agreement.

SPAIN [TOES20200527001](#) [Full text here](#) [Request the address](#)

A Spanish company working in pharmaceutical development is the only institution in the world with a library of dozens of mithramycin analogs and the know-how to make further analogs as guided by molecular dynamics to improve the inhibition of the complex ACE2-SARS-Cov-2 RBD (receptor-binding domain). The company is looking for partners for research or technical cooperation agreements.

FRANCE [TOFR20200430001](#) [Full text here](#) [Request the address](#)

A French Technology Transfer Office TTO offers a new device to produce customised sintered materials, as nanocomposites, ceramics linked to additive manufacturing. This technology could be useful for integrating high added value materials in various domains such as power electronics, structural materials, aeronautics. This TTO is looking for a company which could be interested in acquiring and industrializing the technology with a licence agreement or a technical cooperation agreement.

GREECE [TOGR20200518001](#) [Full text here](#) [Request the address](#)

A Greek mechanical engineer has invented a gearless mechanical system consisting of solid parts, which can alter the speed of a rotating shaft. The inventor is interested in finding partners for financial co-operation in order to invest in the patenting of this technology. The client is also interested in the possibility of technical co-operation (for the creation of prototypes).

UKRAINE [TOUA20200428001](#) [Full text here](#) [Request the address](#)

A Ukrainian company produces a wide range of innovative hardware in order to resolve issues related with passenger traffic in public transport and other transport modes. The company seeks to expand its business geography in order to improve APCS technology and to realise its full potential in an international cooperation after a success in the Ukrainian market. The company is looking for public transport carriers to establish commercial agreements with technical assistance.

UKRAINE [TOUA20200512001](#) [Full text here](#) [Request the address](#)

University with research laboratory for special instrument engineering offers a technology (an installation) for production of ultrapure hydrogen and oxygen from water steam by electrochemical electrolysis with solid electrolytes. The advantages of this offer are technological (the ultrapure products, compact size of installation, ability to work from a standalone power source) and competitive (quality of the products, price). Cooperation type is likely to be licensing or technical cooperation.

PORTUGAL [TOPT20200420001](#) [Full text here](#) [Request the address](#)

A Portuguese start-up, with IT expertise in AI developed a procurement cloud based B2B platform for optimising and negotiating purchases, applicable in multiple sectors. It calculates the optimal solution for the best prices, quantities, discounts, buyer requirements and supplier constraints using AI to minimise purchasing costs, time, and complexity. They seek international commercial agreements with technical assistance, but are also interested in joint ventures, and financial agreements.

SLOVENIA [TOSI20200507001](#) [Full text here](#) [Request the address](#)

Slovenian researchers have developed an innovative method and device for synthesizing impermeable food packaging foil with minimized oxygen permeability and high antimicrobial/antioxidant properties. The invention can be used for packaging of food, medical, pharmaceutical and even textile items. Partners active in

the fields of food, agricultural, medical and pharmaceutical industry specialized on producing packaging material are sought to sign license agreements in the EU and beyond.

SPAIN [TOES20200424001](#) [Full text here](#) [Request the address](#)

A Spanish SME has developed an advanced social media profiling solution which helps digital marketing and customer relationship management (CRM) teams. This solution provides first party data from consumers based on their interactions in social networks. It provides an enriched customer profile, achieving greater segmentation capabilities to launch more personalised marketing campaigns and communications. The company is looking for ICT integrators willing to cooperate under licence agreement.

SPAIN [TOES20200417001](#) [Full text here](#) [Request the address](#)

A company located in the South of Spain has patented an automatic equipment that collects, cleans, disinfects and stores in hygienic conditions, isolated from the outside environment until delivery to the user, items that are in massive use such as baskets and trays (access controls, fast food restaurants, food delivery in hospitals, others) and cars (supermarkets, airport and train). They are interested in signing commercial agreements with technical assistance as well as license agreements.

GERMANY [TODE20200429001](#) [Full text here](#) [Request the address](#)

A Northern German SME offers an automated subtitling solution for live video broadcasting and streaming. Thanks to live transcription, speeches can be followed easier by the virtual audience, a barrier-free access is provided and transcription of content allows keyword search following an event. License agreements are offered to providers of professional applications like conferences, conventions, political events, meetings, news or entertainment.

UNITED KINGDOM [TOUK20200521001](#) [Full text here](#) [Request the address](#)

A UK-based SME is offering its recombinant protein production expertise to companies, universities and research organisation developing diagnostic tests for coronavirus. The SME's technology enables production of good quantities of high quality protein in mammalian cell systems. It is envisaged that the partnerships will take the form of a commercial agreement with technical assistance, technical cooperation agreement or a research cooperation agreement.

UNITED KINGDOM [TOUK20200316001](#) [Full text here](#) [Request the address](#)

A UK SME has developed hardware, software and data analytics capable of monitoring air quality in industrial locations (ranging from harsh environments to offices). The technology offers a complete turn-key solution including deployment of sensors, monitoring, data collection & analytics. It provides users the ability to prevent workers and local communities being exposed to harmful levels of pollutants. Commercial agreement with technical assistance and research cooperation are sought.

SPAIN [TOES20200305001](#) [Full text here](#) [Request the address](#)

A research group of Spain working on chickpea breeding has developed useful plant material for genetic studies related with flowering time, growth habit, seed size, double pod and resistance to ascochyta blight, fusarium and rust, which has applications in agrofood sector and healthy diets. The research group is seeking companies working on seed area under commercial agreement with technical assistance, financial or licence agreements.

TURKEY [TOTR20200425001](#) [Full text here](#) [Request the address](#)

A young and dynamic Turkish company specializes in software development, simulation & modeling mainly for the defense sector. Simulation run-time infrastructure, new generation joint war game simulation, tactical environment simulations, radar and electro-optic models are among the software developed by the company. The company offers technical cooperation agreement and commercial agreement with technical assistance.

SPAIN [TOES20200423001](#) [Full text here](#) [Request the address](#)

A Spanish biomedical research networking center has developed an innovative in vitro method for diagnosis, prognosis, and monitoring of Alzheimer's disease (AD). Using the metabolic profile in the serum of an individual, they are looking to establish license, research cooperation, or joint venture agreements.

ITALY [TOIT20200507002](#) [Full text here](#) [Request the address](#)

An Italian software company has patented and tested an innovative model for managing the handling of single railway wagons. It is a "smart wagon" whose movement is managed by a multi-level IT platform that allows you to reduce logistics costs. The company is looking for international partners to develop market-ready technology under commercial agreements with technical assistance, joint venture and license agreements.

SPAIN [TOES20200402003](#) [Full text here](#) [Request the address](#)

Two Spanish research institutions have found the potential of tyrosine hydroxylase inhibitors for prevention and treatment of aortic aneurysm, thus reducing aortic damage. Companies interested in patent licensing and/or in a research collaboration for the development of its application are sought.

SPAIN [TOES20200424003](#) [Full text here](#) [Request the address](#)

A Spanish Public Research Institution has developed a compact device for macro enlargement photography by stacking photographs, ready to be placed on any work table. It is universal because is configured to use a set of lenses and microscope lenses, so that you can obtain high quality photographs and infinite focus on objects from a size not visible to the naked eye to objects of various centimetres in size. Companies from the imaging industry are being sought for license agreements.

SPAIN [TOES20200425001](#) [Full text here](#) [Request the address](#)

A Spanish public research organisation has developed a catalyst for the reaction of methanation of the carbon dioxide of biogas, which shows high levels of conversion per volume of catalyst, allowing the direct reaction, only in one step. The catalyst has been tested in real biogas, reaching a final gas composition that meets the specifications for being injected into the natural gas grid. Energetic companies are being sought to collaborate and use the catalyst through a patent licence agreement

SPAIN [TOES20200424002](#) [Full text here](#) [Request the address](#)

A Spanish public research organisation has developed a novel hybrid material consisting on a protein matrix and nanoparticles of different copper species. The effect of the combination is an enhancement of the peroxidase activity of the material which leads to degradation of organic molecules at short times. It also shows an interesting catalase-like activity. Companies from the chemical or biochemical areas are being sought to collaborate through a patent license agreement.

PORTUGAL [TOPT20200416001](#) [Full text here](#) [Request the address](#)

A Portuguese private technological research centre has been developing the technology of Ceramic Injection Moulding (CIM), an innovative technology for series production of small and precise advanced ceramic parts. It holds an industrial-like pilot production plant and offers the technology, know-how and/or equipment resources to industrial manufacturing enterprises under a manufacturing and/ or joint venture and/ or commercial agreement with technical assistance.

SLOVAKIA [TOSK20200430001](#) [Full text here](#) [Request the address](#)

Innovative device for visualization of the upper parts of the digestive tract has been developed by a team of inventors from one of the Slovak universities. Among the advantages of the new swallow capsule endoscope is the shape of a modified truncated cone with a cavity in which an endoscopic module is inserted, enabling easier removal of the endoscope from the gastrointestinal tract. The preferred cooperation type is license agreement, they are looking for licensing the mentioned technology.

POLAND [TOPL20200511001](#) [Full text here](#) [Request the address](#)

A Polish R&D-driven company is looking for a partner interested in commercializing a technology for producing plasticizers/ softening compounds (used primarily as an additive to soft PVC, eco-leather, outer sheaths of

electric cables) . The technology recirculates 100% of plastic waste. By-products of the process can be further used in automotive industry and laboratories. Potential partnerships include commercial agreement with technical assistance, joint venture, licensing.

ITALY [TOIT20200316001](#) [Full text here](#) [Request the address](#)

An Italian company has developed a solution aimed at combining technology, wellness and multisensory objects to produce light effects on internal environments and produce relax or impact on humour of people. The company is interested in finding partners with whom to develop the project in defined objects, through technical cooperation agreements (joint development or customized development), or financial agreements (investment on the project).

ITALY [TOIT20200511001](#) [Full text here](#) [Request the address](#)

An Italian company has developed an evidence based solution aimed at combining technology and wellness and multisensory objects or applications to produce light effects on internal environments, relax and impact on humour of people. The company is interested in finding partners with whom to develop the concept into architectural projects, through technical cooperation agreements (joint development or customized development).

ITALY [TOIT20200416003](#) [Full text here](#) [Request the address](#)

An Italian start-up has developed a platform to evaluate SMEs wishing to base their growth on environmental and social sustainability. The online assessment offers a performance comparison with other companies, providing also guidance on how to improve and solve the problems. The ideal partners are interested in:

- technical cooperation agreement for opening the platform in their own country
- commercial agreement with technical assistance to promote the tool use
- financial agreement.

SLOVENIA [TOSI20200518001](#) [Full text here](#) [Request the address](#)

A Slovenian research institute offers technologies for surface treatment of titanium, nitinol (nickel-titanium alloy) and stainless steel vascular stents. The developed methods reduce adhesion and activation of platelets on titanium and nitinol stents, thus preventing thrombosis as well as prevent release of toxic nickel. Producers of vascular stents and other medical devices are sought for technical cooperation and license agreement.

SLOVENIA [TOSI20200521001](#) [Full text here](#) [Request the address](#)

A Slovenian research institute has developed an anisotropic polymer-bonded magnetic filament. The filament comprises magnetically anisotropic particles aligned relative to each other. The filament makes possible the manufacturing of arbitrarily shaped permanent magnets using 3D printing technology. Partners are sought amongst the magnet manufacturers and developers of 3D printing technologies for technical cooperation agreements to apply this technology to the 3D printing of permanent magnets.

UNITED KINGDOM [TOUK20200602001](#) [Full text here](#) [Request the address](#)

A UK university spinout has invented and proven a catalyst that safely turns mixed food waste and packaging into carbon, at lower temperatures. In collaboration with Japanese partners, they offer a full solution for decentralised treatment of up to 24 tons of food/plastic mix per day. Both producers and treatment companies of such waste are sought for commercial agreements with technical assistance.

UNITED KINGDOM [TOUK20200527001](#) [Full text here](#) [Request the address](#)

A UK-based biotech SME has developed a technology for the storage and transport of viable human cells at near-room temperature. Cell-and user-friendly, this overcomes the problems of cryoshipping and opens up the markets for cell-based assays in a ready-to-use format, and biologistics. The company is looking for providers of primary and stem cells, organoids and micro-tissues, biologistics, and cell therapy products, for technical cooperation and commercial agreements with technical assistance.

UNITED KINGDOM [TOUK20200519001](#) [Full text here](#) [Request the address](#)

A small company in the East of England has launched a voice assistant for manufacturing teams. Using natural language processing (NLP) technology, it allows the machines to understand human commands and fill any gaps in data collection. This hands-free system saves time, reduces waste, and improves quality of data. Businesses in manufacturing, energy and mining sectors are sought for commercial agreements with technical assistance.

UNITED KINGDOM **TOUK20200506001** [Full text here](#) [Request the address](#)

A UK start-up is developing the smallest gas flow sensor in the world. Despite the broad range of possible applications, lead times for new product development are short. The tiny sensor can be integrated into components and controls without much redesign. R&D and product managers in manufacturers of smart home and building systems (also wearables) are sought for commercial agreements with technical assistance.

UNITED KINGDOM **TOUK20200518001** [Full text here](#) [Request the address](#)

A UK SME has developed a crop improvement platform for use on a wide range of species. The platform brings together AI with new genome editing biotechnologies to discover and introduce new traits into crops rapidly. Current projects include developing tomatoes that are better for harvest and transport as well as non-sweetening potato varieties. Crop breeders, seed producers and agri industry are sought for commercial agreements with technical assistance, followed by licensing.

UNITED KINGDOM **TOUK20200528001** [Full text here](#) [Request the address](#)

A UK inventor has successfully prototyped and tested a weeding tool that removes weeds cleanly, without leaving a hole or disturbing adjacent plants. Manufacturers of gardening tools are sought for manufacturing and licensing deals, to launch it Europe-wide.

UNITED KINGDOM **TOUK20200501001** [Full text here](#) [Request the address](#)

A UK SME is offering a predictive analytics audit and risk platform software. The SME is now seeking collaborative partners with whom they can form technical cooperation agreements for further development of this software particularly around blockchain and artificial intelligence technology. They are also looking for industry partners who can act as value added resellers (VARs) via license agreements but are also open to joint venture partnerships where it is mutually beneficial.

UNITED KINGDOM **TOUK20200513001** [Full text here](#) [Request the address](#)

A UK company has developed customisable business reporting software that enhances current systems and provides real-time management information, including reports on financials such as aged debtors and creditors. The software is also suited to companies seeking a more detailed understanding of their cashflow situation during Covid-19 related lockdowns. They are seeking to adapt this system to bespoke requirements to a range of partners via commercial agreement with technical assistance.

CZECH REPUBLIC **TOCZ20200430001** [Full text here](#) [Request the address](#)

A Czech start-up in cooperation with industrial and university partners has developed a protective half-mask with an exchangeable P3 filter meeting the highest degree of protection. The set consists of the body of the mask manufactured by injection moulding and an external filter, which meets the same or higher degree of protection as an FFP3 respirator. The company is looking for a license or a commercial agreement with technical assistance.

CZECH REPUBLIC **TOCZ20200430002** [Full text here](#) [Request the address](#)

A Czech start-up in cooperation with industrial and university partners has developed a protective half-mask with an exchangeable P3 filter meeting the highest degree of protection. The set consists of the body of the mask printed on Hewlett-Packard MultiJet Fusion 3D printers and an external filter certified according to the EN 140:1999 norm and therefore meets the same or higher degree of protection as a FFP3 respirator. The company is offering a free-license for non-commercial usage.

GERMANY **TODE20200408001** [Full text here](#) [Request the address](#)

Berlin start-up offers methods for light-conducting 3D lacquers with the ability to make materials brighter and more transparent than they actually are. These lacquers show an extreme lateral reflection and transfer the

property of their spacial magnification, illumination and transparency optimization to the materials. They are ideal for design-oriented applications or to illuminate materials, for colored mirrors/glass, etc. Cooperation considered is a commercial or license agreement.

PORTUGAL [TOPT20200513001](#) [Full text here](#) [Request the address](#)

A Portuguese scientific research institute, non-profit organization, with expertise in the area of durability of materials and anticorrosive protection assessment, in particular in accelerated and outdoor ageing tests, is interested in integrating research teams or consortiums (companies, research centres, universities) aiming at the development of sustainable anticorrosion bio-based coatings in the context of H2020 or other suitable financing programme for a research cooperation agreement.

GERMANY [TODE20200513001](#) [Full text here](#) [Request the address](#)

German company has developed a novel measurement principle for direct determination of the dynamic viscosity of liquids, suitable for Newtonian and non-Newtonian substances. Contactless automatic positioning, cleaning and temperature preconditioning of the samples, variable measuring range and no need of additional density measurement are main advantages. The method is currently applied to blood/plasma. Seeking commercial/technical cooperation agreements in the medical, pharma or chemical sector.

ITALY [TOIT20200527001](#) [Full text here](#) [Request the address](#)

An Italian company based in a Science and Technology Park has developed a technology that allows monitoring of social distancing, tracking and localization, in compliance with rules related to Covid-19 and its needs on distancing applicable to business activities in post-emergency scenarios. The company is interested in commercial agreements with technical assistance with companies or other organisations interested in the technology.

SPAIN [TOES20200504001](#) [Full text here](#) [Request the address](#)

A Spanish SME, active in the area of electronics and industrial automation, has developed an innovative machine to manufacture up to 120 surgical masks per minute. The developed equipment is capable of manufacturing surgical-type masks, with up to 4 layers of protection and with ultrasonic welding systems for the assembly of the mask. The Spanish company is seeking industrial partners (manufacturers of disposables mainly but not only) for commercial agreements with technical assistance.

UNITED KINGDOM [TOUK20200429001](#) [Full text here](#) [Request the address](#)

A UK company has developed a zero-emission energy generation and storage system designed to be used with renewable energy generation such as PV (photo-voltaic) solar, geothermal or wind turbine. The technology is intended as an alternative and replacement for diesel engines and they are seeking power plants and diesel engine manufacturers to adapt and adopt the technology, via commercial agreement with technical assistance.

GERMANY [TODE20200508001](#) [Full text here](#) [Request the address](#)

A German company offers a unique patented process for the extraction of phosphates from biomass and the production of CO2 neutral energy resources. The process is cost-efficient and leaves no residual materials. Partners are sought for licensing, commercial agreements with technical assistance or technical cooperation agreements.

GERMANY [TODE20200406002](#) [Full text here](#) [Request the address](#)

A small German company offers an innovative system to forecast heavy rainfall even on a small spatial scale by a sensor network and artificial intelligence. Unique environmental and IT know-how are combined to provide more effective solutions. Partners are sought for commercial agreements with technical assistance.

GERMANY [TODE20200519003](#) [Full text here](#) [Request the address](#)

A German university offers chimeric mutants of interferon alpha 2 and other interferon alpha subtypes with improved antiviral activity for treatment of chronic or acute viral infections, bacterial or parasitic infections or

tumour therapy. These interferons are characterized by a high biocompatibility. The university offers license agreements.

GERMANY [TOE20200519002](#) [Full text here](#) [Request the address](#)

A German university developed a swim prosthesis that is especially tailored to people with amputated upper limbs. It renders possible a good and healthy swimming experience by ensuring that there is even pressure on both arms while at the same time preventing wrong postures. The university offers license agreements.

SPAIN [TOES20200429001](#) [Full text here](#) [Request the address](#)

A Spanish telecommunications company has implemented a smart & safe innovative system for buildings access management according to COVID-19 requirements. It combines hardware (smart advanced cameras) and a cloud platform to manage, monitor and analyze all the information gathered and make decisions. This prevention technology is useful for a safe access to hospitals, public/corporate buildings, venues, hotels or malls. The company is interested in commercial agreements with technical assistance.

FRANCE [TOFR20200407002](#) [Full text here](#) [Request the address](#)

A French SME specialized in the field of chemistry collaborates in national or european projects, as partner or subcontractor. The company produces ligands which are used to form Metal-Organic Frameworks (MOFs) thanks to its strong knowledges in organic chemistry. The company offers precursors to create Metal-Organic Frameworks (MOFs). The company is interested in technical cooperation agreement.

SPAIN [TOES20200420001](#) [Full text here](#) [Request the address](#)

A Spanish innovative company specialised in photonics technologies, working in reliable, long range and all conditions Light Detection and Ranging (LIDAR) solutions, for transport (railway, road) and industrial robotics applications, is looking for 3D optical metrology or LIDAR partners offering their technology under research or technical cooperation agreements (road transport, autonomous vehicles platforms) or commercial agreement with technical assistance (railway and aerospace agents).

SPAIN [TOES20200319001](#) [Full text here](#) [Request the address](#)

A Spanish university has developed a solar dryer for drying foods, materials or other industrial products. It is subjected to air or another gas under pressure for the purpose of increasing energy efficiency by means of using a turbocompressor, being able to work in an open or closed circuit. It does not require supplying external energy, except that obtained from solar capture, and eliminates the use of liquids, making it easier to handle and operate. Looking for financial and licence agreement.