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PRIVATE CHALLENGES

12th february 2020

Open Innovation Area

10:00 a.m. Environment sector: **EMASA** Empresa Municipal de Aguas de Málaga

Use of drones in closed spaces to carry out inspections



GOAL: the conditions of danger, closed environments, and physical difficulty due to very small spaces, make it very difficult and complex to carry out detailed inspections in the sewage networks. The aim is to apply drone technology in these environments, improving both the depth of inspection and the working conditions of the operators.

EMASA is looking for an innovative solution for the use of drones so that they can navigate through different closed spaces (ducts, tanks, etc.) along with a software development that allows the mapping of the drone's route and the detection of possible points of interest.

11:30 a.m. Environment sector: **EMASA** Empresa Municipal de Aguas de Málaga

APP: Málaga fountains



GOAL: to develop a mobile app that allows citizens and tourists to get information about the existing fountains in Malaga, both ornamental and drinking. The proposals should provide innovative solutions that, through geolocation, Machine Learning and Augmented Reality, allow the design of tourist routes through the ornamental fountains, choose efficient routes to reach drinking fountains and display relevant information from the ornamental fountains when the visitor looks at the source in question through the app on your smartphone.

1:00 p.m. Aerospace sector: **AERTEC SOLUTIONS**



Development of reinforced injection materials for its application in the aeronautical industry

GOAL: the worldwide leading aircraft manufacturer presents a new challenge for the aeronautical industry.

The potential implementation in the aeronautical industry of the manufacturing process through plastic injection reinforced with short fiber is being studied in pieces of low structural responsibility such as hull underbodies from horizontal and vertical stabilizers. The reason is its attractiveness regarding recurring costs and production rate proved in the automotive industry.



4:00 p.m. Health sector: **MERCK**



Technological solutions for the improvement of patient's experience with Multiple Sclerosis

GOAL: In order to shape the future of healthcare, Merck seeks innovative technology-based solutions that help improve the patient experience with Multiple Sclerosis. The proposals must provide digital solutions that help to normalise life with the disease and manage the different dimensions involved in a holistic approach to it (psychological, cognitive and emotional support). Innovative solutions will be valued, mainly with existing technology, that would help the whole patient group in the different phases of the disease.

- **Sara Pedraz.** Innovation Manager
- **Matilde Gómez.** Product Manager in Neurology sector
- **Rafael Romero Lapeira.** KAM in Neurology sector

5:30 p.m. Energy sector: **ENDESA** Empresa Nacional de Electricidad S.A



Alternative solution to the use of Generators in the MV/LV Network

El objetivo: Busca propuestas innovadoras para la implementación de sistema de alimentación red MT/BT de menor tamaño que los actuales, menos ruidos, más flexible y/o más económico. Por otro lado, como alternativa se plantea poder contar con un sistema que permita localizar los dispositivos actuales y ver su estado en tiempo real para mejorar la eficiencia de la operación

ENDESA en su apuesta por apoyar el talento en materia de innovación e investigación, busca soluciones a su nuevo reto tecnológico para la solución alternativa al uso de Grupo Electrógenos en la Red MT/BT"

13th february 2020

Open Innovation Area

10:00 a.m. Sector TIC's/Energía: **RED ELÉCTRICA**



Uninterruptible Power Supply System in Transmission Grid Supports

GOAL: feeding mobile operator equipment placed in a support of the Transport Network. In order to guarantee the connectivity of IoT devices and to bring different telecommunications services to rural areas far from auxiliary supply systems, taking advantage of the existing infrastructure, Red Eléctrica is looking for innovative solutions capable of supplying uninterrupted power to electronic equipment with a power of between 5 and 6 kW on supports of the electrical energy transmission grid near these areas.

- **Moisés Leñero.** IoT Partner, **Red Eléctrica**



OPEN CHALLENGES

13 febrero 2020

Open Innovation Area

10:30 a.m. **Open CHALLENGE** Tourism sector: **ALASTRIA – TDDS** in cooperation with Formentera Island Council



Blockchain based projects oriented to tourist territories sustainable impact development

The aim: Sustainable Tourism should support the blockchain entrepreneurship through the implementation of pilot projects that would allow to have concrete experiences of use with this technology in one of the key sectors in Spanish economy.



ALASTRIA – TDDS are looking for projects that must present a solution for reporting on load capacity, alerts and sustainable indicators (economic, social, cultural and environmental) that can provide information in real time, useful for decision making in tourist destinations. This system will pay special attention to indicators that could serve to calculate the load capacity of the destinations and their main tourism resources, allowing for more effective promotion and management that will guarantee the experience of the user who consumes the product or service. The pilot project should be developed for the territory of Formentera but replicable to other destinations.

Moderator:

- **Antonio López de Ávila.** CEO, Tourism Data Driven Solutions (**TDDS**)
- CHALLENGE showcase:
- **Montse Guardia.** CEO, **Alastia**
- **Carlos Bernús.** Manager, **Formentera Tourism Board**

YELLOW POINT

11:00 a.m. Tourism sector – Smart Rural: **SEGITTUR**



Rural tourism, depopulation and sharing economy

GOAL: to design a platform that allows to discover rural depopulated areas with tourism potential as well as building a technological infrastructure to enhance collaboration between the different actors linked to tourism, mobility and the economic structure of the area.

SEGITTUR, in its commitment to boost innovation within the Spanish tourism sector, looks for a multichannel platform to access multimedia content regarding areas with tourism possibilities aligned with demand estimations from previous research studies. It should be complemented with a sharing economy platform to determine tourist resources available and productive means to satisfy tourist needs, as well allowing access to mobility resources within the area.

- **Eduardo Gutiérrez.** Director of Business Development and New Technologies, **Segittur**



WHITE POINT

1:00 p.m. Aerospace sector: **AIRBUS**

AIRBUS

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The main challenge that arises during the activity is the development of a material, suitable for the production process, that presents the ideal balance between its stiffness properties and the resistance to impacts that this type of pieces can suffer during the operating lifetime of the plane.

- **Diego Lastra.** Stress Engineer, **Airbus**

