

# Spanish Innovators Demo Day

**Spanish Pavilion EXPO Dubai 2020**  
**February 3<sup>rd</sup> 2022**



## Introduction

The CDTI is organizing this “Spanish Innovators Demo Day” where 8 of the most innovative Spanish startups will present their disruptive product and services with main aims of promoting Spain and its institutions as suitable and desirable partner in the development of new technologies and entrepreneurship.

## Institutions’ profiles

 <p>MINISTERIO DE CIENCIA E INNOVACIÓN CDTI @CDTIoficial</p>	<p>The Centre for the Development of Industrial Technology (CDTI) is a Public Business Entity, answering to the Ministry of Science and Innovation, which fosters the technological development and innovation of Spanish companies. It is the entity that channels the funding and support applications for national and international R&amp;D&amp;i projects of Spanish companies. The CDTI thus seeks to contribute to improving the technological level of the Spanish companies by means of implementing the following activities:</p> <ul style="list-style-type: none"> <li>• Financial and economic-technical assessment of R&amp;D projects implemented by companies.</li> <li>• Managing and fostering Spanish participation in international technological cooperation programmes.</li> <li>• Fostering international business technology transfer and support services for technological innovation.</li> <li>• Supporting the setting up and consolidating technological companies.</li> </ul>
 <p>Alén .space</p>	<p>ALÉN SPACE is a leading manufacturer in Europe and Latin America with a highly qualified team of engineers with more than twelve years of experience in the development of CubeSats, first-rate technology and processes based on European industry standards (ESA-ECSS). Space cannot be understood without research. ALÉN SPACE has been committed for years with the implementation of new solutions and products. Proof of this commitment and efficiency in research and development are the projects carried out and successfully completed.</p>

	<p>BIOTECH FOODS is among the few leading initiatives worldwide that develops technology to produce Cultured Meat that aims to meet the growing global demand for animal protein. Cultivated meat use significantly less land and water, emit fewer greenhouse gases, and reduce agriculture-related pollution and eutrophication, over conventional animal agriculture.</p> <p>BIOTECH FOODS develops technology to produce cultured meat, in which animal tissue is grown in a controlled environment using cell culture technology, thereby making the raising and killing of animals for food unnecessary. This approach shows great potential of meeting all the requirements of a humane, sustainable, and healthy form of meat production.</p>
	<p>bound4blue develops modern automated wind-assisted propulsion systems as a turnkey solution for all shipowners and shipping companies looking to reduce fuel costs and pollutant emissions. The bound4blue eSAIL® system is an optimal solution for saving fuel and reducing emissions: fully automated, low cost, low maintenance and easy on-board installation. The company, founded in 2014 with a clear vision on renewable energy applied to maritime transport, currently has its head office in Cantabria (Spain), with offices in Barcelona and Singapore. In 2021, the company installed its eSAIL® system on two vessels and signed additional agreements with other shipowners to extend the system to their fleets beyond 2021.</p>
	<p>CYCLOMED TECHNOLOGIES is a deep tech spin-off founded in 2019 by CIEMAT (Center for Energy, Environmental and Technological Research), the industrial company ANTEC, Chasing Science and Mind the Gap as the main investor. Our mission is to serve as a bridge between scientific knowledge and the industrial sector in order to apply superconducting technology to different areas and explore new fields of scientific knowledge to develop deep-tech solutions which can made an impact on society.</p> <p>CYCLOMED is now focused on the development and exploitation of a compact particle accelerator to produce short-lived radioisotopes to enhance medical nuclear PET imaging by improving their availability in hospitals.</p>
	<p>IENAI SPACE, a young startup focused on providing the smallest satellites with their own rocket engines.</p> <p>IENAI SPACE was founded with a mission to change the way the on-board electric propulsion market operates. We believe that clients should not be forced to build their spacecraft around a small number of available propulsion products, but that these systems should adapt to the constraints and requirements of each individual mission.</p> <p>IENAI SPACE's goal is to remove entry barriers for the adoption of electric propulsion technologies in the smallest of satellites, providing platform manufacturers and integrators with the tools necessary to understand their propulsion requirements, and the best possible hardware to address them.</p>
	<p>RATEDPOWER is on a mission to digitalize the renewable energy industry and maximize clean energy's potential through cloud-based solutions.</p> <p>RATEDPOWER's software, pvDesign, is the standard cloud-based software for designing and engineering utility-scale photovoltaic (PV) plants. Helping development, EPC, and solar engineering firms to reduce LCOE by maximizing energy production and reducing construction costs.</p> <p>Developer teams use pvDesign to prospect plots of land faster and try out different plant configurations in order to find the best investment opportunities quicker than ever. Teams at EPC companies use pvDesign to cast winning quotes to their off-takers, minimizing PV projects costs.</p> <p>It reduces 85% of the time solar professionals spent designing PV plants from 4-6 weeks to under 2 minutes. The software has reportedly reduced by 5% the LCOE of solar plants designed with it, which translates to a 20% higher solar plant profitability. It has optimized 7,000 GW in more than 190 countries.</p>

	<p>SATLANTIS is a Spanish technological SME that develops customized, reliable and innovative satellite solutions that fully meet customers' demands. We provide user-driven High and Very High-Resolution cameras for SmallSat, covering different spectral ranges with unprecedented mass to resolution ratio, for Earth &amp; Universe Observation missions. Euroconsult recently positioned SATLANTIS among the best global providers of small satellites optical payloads.</p> <p>The offering is based on iSIM innovative technology that has been developed during the last 10 years, validated onboard the ISS in 2020 with a first mission with JAXA and a second mission, launched in December 2021 for the US DoD &amp; NASA. Additionally, SATLANTIS is working on its end-to-end missions to cover, in collaboration with strategic partners, the entire value chain with added-value applications in sectors like Environment, Security, Oil&amp;Gas. Upcoming missions: URDANETA June 2022, GEI-SAT constellation (4 Satellites/2023-25) for GHG &amp; Environment services with a first mission in Q2 2023.</p>
	<p>SUBMER have created the ultimate solution for the Cloud, Edge, HPC and AI industry.</p> <p>With three different options available per industry, fully customizable solution built to your particular specifications is offered or also, a basic solution that incorporates SUBMER's proprietary Immersion technology with different customizable elements, giving you the confidence that the solution you've chosen will be perfect for the job</p>

## Speakers' Profiles

### **Mrs. Teresa Riesgo, President, CDTI**



Teresa Riesgo is the Secretary General for Innovation of the Spanish Ministry of Science and Innovation and President of the Centre for the Development of Industrial Technology (CDTI) since January 2020, former Director General for Research, Development and Innovation since July 2018. She holds Master and PhD Degrees in Industrial Engineering from the Technical University of Madrid, where she was Full Professor of Electronics since 2003. During her academic career she has participated in more than 60 research projects, many of them international and in cooperation with industry, and published more than 200 scientific papers.

She has actively participated in academic activities of the University as International Double Degree Programmes worldwide, as the department and research centre Head, etc. After more than 25 years of academic activities, she took the responsibility as DG at the Ministry where she is now in charge of the promotion of innovation and the planning and follow-up of the Spanish strategies of science and innovation.

### **Mr. Javier PONCE, CEO, CDTI**



Mr. Javier Ponce is an Industrial Engineer graduated from the Polytechnic University of Madrid, Master in Business Administration (MBA) from the Instituto de Empresa (IE) and Degree in European Communities from the Spain's Diplomatic School. He began his professional career in 1986 as a fellow and, later, as a researcher of the CSIC (Higher Council for Scientific Research). Later, he worked as a design engineer and later as Head of the Microelectronics Laboratory of the AMPER telecommunications group.

In 1992, he joined the CDTI as a Manager of International Programmes and Spanish Delegate to the European Union for R & D Programs during the Framework Programs III and IV. Later positions are Head of the Office for the Spanish Chairmanship of the international Eureka Programme for Technological Cooperation (40 countries), Head of Studies & Promotion Department of the CDTI, Director of Operational Management and Secretary of the Board of Directors. Since 2012, he managed the global economic and financial management of the CDTI as well as the investment policy in capital of technological companies. In addition, he also was a Member of the Board of the public investment company INNVIERTE. In July 2018, he was appointed Director General of the CDTI.

#### **Mr. Iñigo Charola, Co-founder and CEO, BIOTECH FOODS SL**



El Sr. Iñigo Charola co-fundó BioTech Foods en 2017. Tiene una amplia experiencia en productos relacionados con la industria en puestos de marketing y ventas. Hace 20 años comenzó su carrera en ASSA ABLOY, líder mundial en productos de seguridad, y luego como director de ventas y marketing en la industria de procesamiento de alimentos. Antes de unirse a BioTech Foods como CEO, ha estado trabajando en el campo de la Nanotecnología como COO en Graphenea. Es Licenciado en Administración y Dirección de Empresas por la Universidad de Gales y Executive MBA por la Deusto Business School. También ha participado en Programas Ejecutivos en INSEAD y Boston College

#### **Mr. Carlos Hernando, Business developer, CYCLOMED TECHNOLOGIES SL**



Carlos Hernando is an R&D engineer at CYCLOMED. He is responsible of the area of Superconductivity & Cryogenics, in the research of novel methods and techniques, and the exploration of new applications.

He is an electromechanics engineer from Universidad Pontificia Comillas ICAI-ICADE, where he also got a master's in industrial engineering and another in engineering for mobility and safety. He is currently working on his PhD on Modelling of engineering systems in a collaboration between CYCLOMED and the University.

#### **Mr. Pol Valls, Co-founder, SUBMER TECHNOLOGIES SL**



Multimedia engineer and business PgD. Started developing tech projects at age 16. Extensive experience as a PM and CPO at a fintech company. Actively guided and nurtured entrepreneurs and startups before co-founding SUBMER in 2015.

**Ms. Ghada Alafranji, Business developer, RATED POWER SL**



Ghada Alafranji is a Business Developer with three years worth of experience working alongside the business team at RATEDPOWER. She blends business acumen with solid technical knowledge. Ghada specializes in Sustainable and Renewable Energy Engineering and is responsible for the Middle East, North Africa, Turkey, and the Indian region, ensuring exponential growth within these markets and the development of RATEDPOWER's game-changing technology.

**Mr. José Miguel Bermúdez, Co-founder and CEO, BOUND 4 BLUE SL**



José Miguel Bermúdez Miquel is an aeronautical engineer specialized in space vehicles. He graduated from the Polytechnic University of Catalonia (UPC) and has worked for private technology aerospace groups, developing software for simulating aircraft trajectories. After this, he joined ZERO2INFINITY, a start-up of the aerospace sector, working in business development and engineering.

**Mr. Antonio Vázquez, Business developer and Co-founder, ALEN SPACE SL**



Antonio Vázquez is a former telecommunication engineer, co-founded ALEN SPACE now he works as the head of business development. He has worked in all the engineering satellite lifecycle, from design to operations. He also has a Master in finance, mix engineering expertise, finance and focused market mindset.

**Mr. Roberto Fabrizi, Sales and Business development Director, SATLANTIS MICROSATS SL**



Roberto Fabrizi is an electronic engineer with a master thesis at ESA, currently Sales and Business Development Director for SATLANTIS. He has been working in the Imagery Earth Observation field for the past 15 years, covering all facets of the EO value chain, encompassing technical and commercial aspects. Roberto's experience is in translating cutting edge remote sensing tech into relevant Earth Observation applications, making them valuable to end users. He has worked within the Space sector for different companies such as ISDEFE, Deimos Imaging and Telespazio.



## Mr. Daniel Pérez, Co-founder and CEO, IENAI SPACE SL



Daniel Perez Grande has been dreaming about rockets, and the places we'd reach through them, since he was little. His passion for everything geek and, in particular, for science-fiction (and the real science behind it), propelled him to become an Aerospace Engineer (Universidad Politécnica de Madrid) and, years later, to obtain a PhD in Plasma Physics and Nuclear Fusion (Universidad Carlos III de Madrid).

He dedicates his time to carrying out scientific outreach related to space sciences and is passionate about creative communities: he's co-organizer for AI Saturdays Madrid, a non-profit focused on the dissemination of AI related knowledge, and of the NASA SpaceApps Challenge Madrid, the local edition of the world's largest Hackathon event (and, to our knowledge, the Universe's largest).