



Spain Pavilion

Xponential Europe 2025

February 18th — 20th, Düsseldorf (Germany)

Düsseldorf Exhibition Centre **Booth #1C05**

Spain Pavilion

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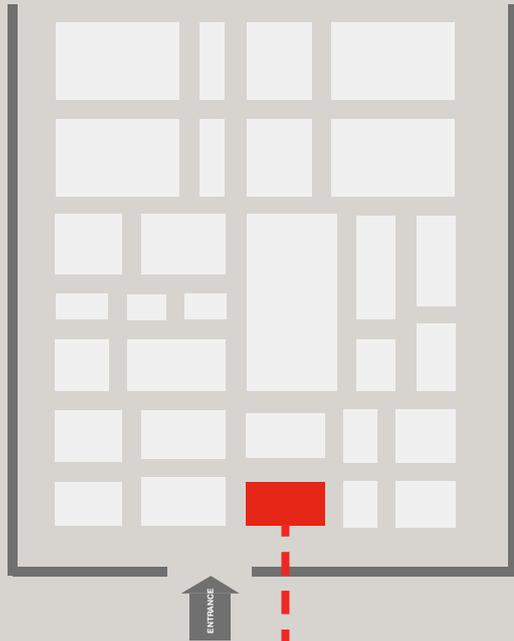
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Exhibiting companies

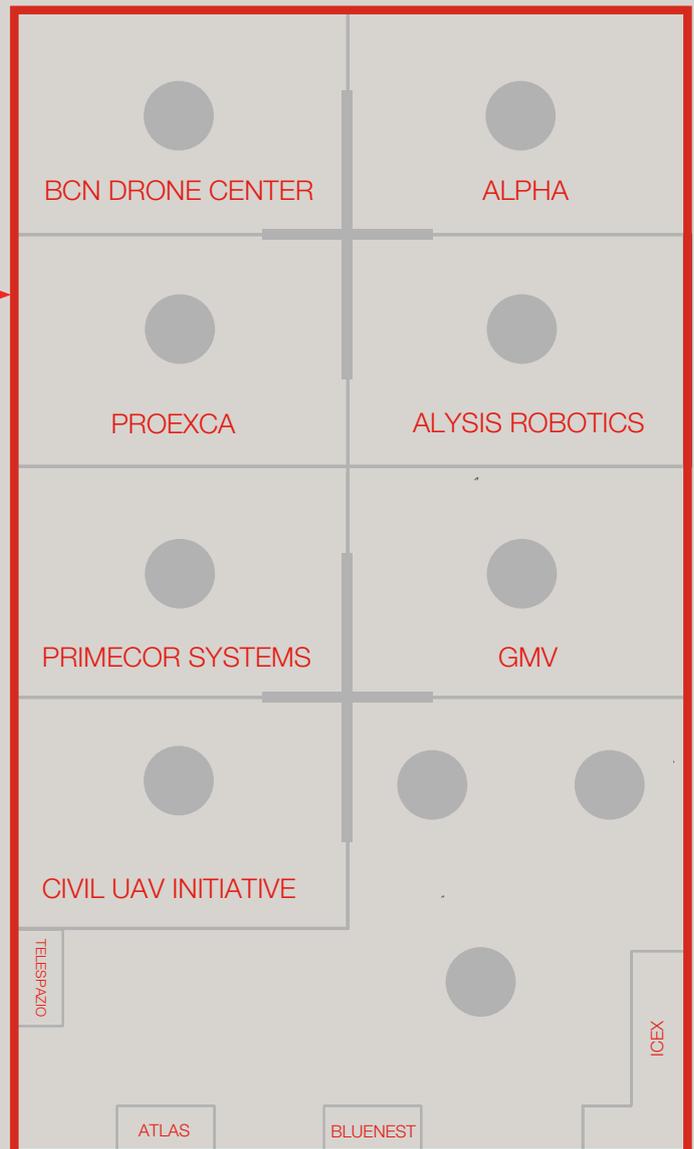
ALISYS ROBOTICS	www.alisysrobotics.com
ALPHA UNMANNED SYSTEMS	www.alphaunmannedsystems.com
ATLAS BY CATEC	www.atlascenter.aero
BCN DRONE CENTER	www.barcelonadronecenter.com
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Düsseldorf Exhibition Center



Booth #1C05



UAV NAVIGATION-GRUPO OESÍA
HALL 1-D07

Alisys Robotics provides end-to-end field robotics solutions, covering the entire cycle of research, development, testing, deployment, and operation of next-generation robotic services, including the provision and integration of hardware. Field robotics involves the deployment of autonomous systems in unstructured, dynamic environments—far beyond the controlled settings of traditional industrial or logistic robotics.

Alisys Robotics has developed a comprehensive technology stack that integrates advanced on-device capabilities—such as autonomous navigation and perception—with interfaces for multi-robot coordination and real-time monitoring. This includes manufacturer-independent modules for deploying high-performance 3D SLAM solutions, advanced real-time vision models, or sensor-based detection, multi-robot system navigation and task optimization, as well as high-performance media streaming and remote teleoperation. The primary applications of this technologies are in Security and Defense, Emergency Response, and Industry.

TECHNOLOGICAL CAPABILITIES / PRODUCTS

Alisys Robotics has developed a comprehensive technology stack that encompasses both on-device capabilities (such as navigation and perception) and interfaces for multi-robot coordination and real-time monitoring. One of the primary applications of this technology is the deployment of next-generation inspection and maintenance missions.

Additionally, Alisys Robotics has significant experience in publicly funded R&D projects specifically targeting this domain. Notable examples include the European TALOS project (focused on inspection and maintenance in photovoltaic plants) and several national initiatives, such as INMERBOT (robotic technologies for industrial inspection), UNDERAIBOT (robotic inspection in low-visibility environments), and HIDRO (inspection in hydropower plants), among others.

As part of its R&D and innovation efforts, Alisys has also participated in industrial pilots and proof-of-concept projects for industrial inspection, collaborating with prominent industry players such as ENAGAS, ENERJISA, EDP, ARCELOR, TELEFÓNICA, and NATURGY.

MAIN PROJECTS

Alisys technologies are particularly well-suited for dynamic and tactical scenarios, with recent evaluations conducted in high-impact contexts. For instance, during the EUROPOL ATLAS Workshop in November 2021, Alisys demonstrated the deployment of robots in tactical operations for special intervention units. In the same year, the company participated in Telefónica's 5G Proof of Concept for real-time security and surveillance. This project marked Europe's first test of remote teleoperation of a robot on a standalone 5G network with network slicing capabilities, enabling enhanced teleoperation and live monitoring.

In 2022, Alisys contributed to the NATO C-IED Workshop, presenting a quadruped robot equipped with a landmine metal detector in collaboration with the International Demining Center. Similarly, during the University of Málaga's Security, Emergency, and Disaster Days, Alisys showcased robotic-assisted terrain reconstruction in hostile environments, providing rescue teams with real-time operational data.

The company also collaborated with the Spanish Army's Paratrooper Brigade (BRIPAC) to integrate CBRN (Chemical, Biological, Radiological, and Nuclear) systems with MANET network teleoperation, enhancing field operations in complex scenarios. More recently, Alisys participated in the 5G+TACTILE project, highlighting advanced robotic support systems tailored for law enforcement and rescue teams.

It is also worth noting that Alisys Robotics has extensive experience in publicly funded R&D projects targeting mission-critical and challenging environments. Notable initiatives include the European TALOS project, focused on inspection and maintenance in photovoltaic plants, and various national projects such as INMERBOT (robotic technologies for industrial inspection), UNDERAIBOT (robotic inspection in low-visibility environments), HIDRO (inspection in hydropower plants), and PRIME-HUGV (AI-enhanced teleoperation of heavy UGVs), among others.

In late 2024, Alisys was chosen to take part in the first EU Defence Innovation Operational Experimentation Campaign on Autonomous Systems for Cross-domain Logistics, after being awarded a service contract by the European Defence Agency.

Founded in 2014, Alpha Unmanned Systems is a leading designer and manufacturer of fuel-powered Helicopter UAVs. Used in more than 12 countries, Alpha's helicopters take-off and land autonomously on moving vessels, and are built for maritime security, border control, forward observation and other missions. Alpha's professional team is ready to help integrate your payloads and design your missions for maximum success.

TECHNOLOGICAL CAPABILITIES / PRODUCTS

4h flight time
100km Range
<25Kg MTOW
Autonomous VTOL
Minimal Logistical Footprint
Low & Slow Flight Mode

MAIN PROJECTS

Frontex – Bulgarian Border Police
Alpha Target Systems – Rotary Wing Aerial Targets
US DoD – Persistent Surveillance
Manned-Unmanned Teaming – A900 UAV commanded from Airbus H135 cockpit in-flight
REPMUS 24 – Onboard Armada's Tornado vessel

CATEC (The Advanced Center for Aerospace Technologies) is an internationally recognized RTO (Research & Technology Organization) at the forefront of the aerospace industry. CATEC is a European and world leader in the development of technologies for medium, small, and light UAVs. It works directly on technological projects with leading companies in the sector.

CATEC manages two ATLAS flight centres that make up unique and pioneering infrastructures in Europe. One is more focused on experimentation for flight testing of unmanned aerial systems (drones/UAS), and the other is tactical, for unmanned and manned aircraft requiring a long runway and for new eVTOL platforms for advanced or innovative air mobility applications.

ATLAS α has been fully operational in Villacarrillo (Jaén) since 2014 and has excellent facilities for the operation of experimental UAS and a segregated airspace of 30x35Km up to 5,000ft (TSA 30 ATLAS). In addition, ATLAS is an aerodrome approved by AESA and equipped with the latest technology (ADS-B, primary radar, etc.), ideal for hosting experimental UAS and drone flight developments, as well as for training pilots, operators and technicians of this type of aircraft. More than 80 different clients.

ATLAS β is the other flight centre just 25km away from ATLAS α . It has a 1,500m long runway and the capacity to operate both manned and unmanned aircraft. In addition, a corridor of only 9km can be created to access the segregated airspace (over 1,000km²) of ATLAS α , facilitating the execution of air operations between the two flight centres.

TECHNOLOGICAL CAPABILITIES / PRODUCTS

The ATLAS experimental flight centers, belonging to the Advanced Center for Aerospace Technologies | CATEC, offer the international aeronautical community a segregated airspace of 1,000 km² equipped with specific facilities for UAS, with excellent weather conditions: more than 300 days of sunshine a year, high availability to execute flight campaigns, and a clear customer orientation, highlighting the agility and confidentiality in each project.

Added value services

- Management and coordination of flight operations.
- Management of documentation, permits and insurance for flights and campaigns.
- Engineering support from CATEC research center with respect to:
 - Avionics integration/adaptations
 - Pilot demand

MAIN PROJECTS

Aerial-Core (Technology modules and an integrated aerial cognitive robotic systems)	www.aerial-core.eu
Omicron (Intelligent Road Asset Management Platform)	www.omicronproject.eu
Aladdin (Advanced hoListic Adverse Drone Detection, Identification Neutralization)	www.project-aladdin.eu
U-space4UAM (Large scale demonstrations PROJECT)	www.sesarju.eu
DOMUS (Demonstration of multiple U-space suppliers)	www.sesarju.eu
Courageous (Test methodology for detection, tracking and identification of nefarious drones)	www.courageous-isf.eu

Barcelona Drone Center empowers UAS stakeholders to enter the European market with testing, certification, and regulatory compliance services. With over 25 years of experience and a proven track record in hundreds of successful projects, we deliver efficient solutions to accelerate your market entry. Furthermore, with our LUC, we enable advanced operations such as BVLOS and UAS over 25 kg in just weeks, significantly reducing testing timelines.

At our UAS dedicated test site with segregated airspace, just an hour from Barcelona International Airport, we are building an innovative UAS ecosystem. By fostering collaboration among users, we aim to drive synergies and accelerate the deployment of cutting-edge solutions.

TECHNOLOGICAL CAPABILITIES / PRODUCTS

Testing + Evaluation + Certification: Class Label, CE, Specific Category (any SAIL)
Regulatory Compliance (SORA, Operational Authorisation processing)
Research and Development
Rapid Prototyping
Designated Entity Training for Specific Category

MAIN PROJECTS

Operations as a Service (OaaS): We bridge the gap between technology and end users by offering a regulatory compliance framework under our LUC. This enables seamless deployment of both PoCs and scalable operations.

Subsystems Testing: We offer integration of any UAS subsystem into our diverse testing platforms, which includes fixed-wing, VTOL, and multirotor models of various sizes.

Horizon Europe R&D Projects: We actively participate in funded R&D consortiums, specializing in integration, flight testing, and validation of developed solutions.

Professional Custom Training: With over 100 training sessions delivered to more than 1,000 professionals, we offer expertise across all aspects of UAS knowledge, including piloting, operations, regulatory compliance, UAS design and construction, remote sensing, precision agriculture...

Bluenest by Globalvia aims to be leader in Innovative Air Mobility infrastructure for aerial logistics, transport of passengers and other eVTOL uses. The appropriate infrastructure, interfaces and systems will be paramount in the successful development of this industry. As experts in infrastructures concessions, we put the customer in the center to design, build and operate vertiports using bold approaches to ensure safe, sustainable, reliable and efficient operations for all stakeholders in the ecosystem. With our drone nests, we aim to empower the life quality of our citizens and tackle important challenges in congested cities and remote areas by bridging and connecting people and goods with this new 3D mobility concept.

TECHNOLOGICAL CAPABILITIES / PRODUCTS

Vertiport operations with advanced control center
Logistical locker for drones for medical applications
Design of vertiports
Operation of UAS for emergency air delivery

MAIN PROJECTS

We work in relevant avantgarde projects like EUREKA (vertiports integration) and U-Elcome (medical logistics with drones).

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The Galician Aerospace Consortium was created in as created on October 10, 2007 in order to promote and develop the aeronautical sector in Galicia and achieve a higher level of innovation, research and competitiveness, throughout the sector. It is currently made up of more than 40 members and brings together companies, universities and technology centres from the Autonomous Community of Galicia that are leaders in the aeronautical and aerospace sector. This whole business and institutional conglomerate forms the technological vanguard of Galicia, grouping together several regular suppliers of the main Spanish and European TIER 1, as well as aerospace agencies such as the ESA or NASA.

Our main objective is to strengthen this industrial activity that is attracting and can attract even more benefits for our autonomous community. We bring together companies and also universities, technology centres and other agents involved with the Galician aerospace sector. And for this reason, we are the representative entity of this activity in which we develop actions in the field of international relations, training, innovation, commercial promotion, among others.

TECHNOLOGICAL CAPABILITIES / PRODUCTS

Within the activities and processes carried out for the aerospace industry, the following stand out especially: Engineering (product design and structural calculation), mass production of carbon fibre (Lay-up, curing and inspection), design and production of aeronautical tools, and machining of such diverse and innovative materials as titanium or honeycomb, besides telecommunications systems and UAVs.

MAIN PROJECTS

Continuous development of the Strategic Plan and White Paper of the aeronautical industry in Galicia.

Performing technological and capacity diagnostics for CAG companies.

Visits to plants and factories as well as sector fairs of interest at national and international level.

Promotion of activities for the integration of companies in the aeronautical sector.

Coordination and promotion of certification programs in relation with aeronautical sector.

Specific training programs.

Management of the Galician Aerospace Industry Observatory.

The Fuerteventura Technology Park (Parque Tecnológico de Fuerteventura) is a public company under the Government of the Canary Islands through the Cabildo of Fuerteventura. It is currently one of the most important R&D initiatives in the Canary Islands, focusing its activities on the field of operation and testing of HAPS (High Altitude Pseudo-Satellites) and UAS. Its infrastructure and facilities include the Canarias Stratoport for HAPS&UAS and a specific facility for receiving and processing data (ISSEC center), and different hangar and meteorological equipment for HAPS&UAS operations.

TECHNOLOGICAL CAPABILITIES / PRODUCTS

Flight test for HAPS&UAS

Operations of HAPS and UAS

Data processing

Meteorological data processing and forecasting

MAIN PROJECTS

ISSEC: creation of innovative solutions for emergencies managing and biodiversity monitoring through HAPS and UAS.

RETECH4CAN: HAPS and UAS mission for forestry research and support to forest fires.

AGAMENON: monitoring of illegal migration to the Canary Islands with HAPS

U-ELCOM: led by EUROCONTROL, it intends to foster the uptake of U1 and U2 U-space services through development, testing, and demonstration of early U1 and U2 U-space solutions across 15 locations in Spain, Italy, and France.

ASTRA: operational analysis, airspace structure design and Airspace Risk Assessment (ARA) for the implementation of advanced unmanned aircraft operations in the Canarias Stratoport for HAPS & UAS infrastructure environment.



www.dmd.solutions

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DMD Solutions is an engineering consultancy in aerospace design & certification. The company specializes in engineering services for the aerospace industry with a focus in Reliability, Availability, Maintainability and Safety (RAMS) for the aerospace and drone industries. DMD Solutions works as a remote Safety & Reliability team for manufacturers who need support in their certification efforts. We also provide Talent as a Service in all fields of aerospace design engineering, finding the right person for the right project and shaping the careers of our community of experts. DMD Solutions is based in Barcelona, but operates globally, having most customers in Central Europe with a branch based in Luzern, Switzerland, to better accompany clients in the area.

TECHNOLOGICAL CAPABILITIES / PRODUCTS

Managed Engineering Services and Turnkey projects in Reliability, Maintainability and Safety (RAMS)

Engineering support for Certification (Type Certificate, SAIL III/IV, SORA)

Talent as a Service for roles in aircraft design: systems engineers, avionics, weight and balance, aerostructures, etc.

MAIN PROJECTS

Engineering partner for all Safety, Reliability & Maintainability related activities to achieve both certification and design improvement:

- **Manna Drone Delivery:** with the biggest B2C network in Europe already in place, Manna's UAS is the most advanced drone into certification already delivering payloads up to 3,5 kg over populated cities.
- **Zapata Airscooter:** Zapata's personal VTOL concept is that of free-flight: a single person piloted multicopter aircraft designed for maximum stability and safety.
- **Dronamics:** a cargo unmanned aircraft which falls into the CS-23 category and has obtain operational licence as the first EU's Light UAS Operator.

Functional Hazard Assessment performed for Electronic Conspicuity in the framework of the design of integrated air-space architecture including Air Traffic Management and U-space Management.

GMV is a privately owned technology business group founded in 1984 and trading on a worldwide scale in the following sectors: Space, Aeronautics, Defense and Security, Cybersecurity, Intelligent Transportation Systems, Automotive, Healthcare, Telecommunications and IT for government authorities and major corporations. In 2023, the company posted a total income of over €384 million. With more than 3,300 employees, it currently has subsidiaries in Spain, the USA, Germany, France, Poland, Portugal, Romania, the UK, the Netherlands, Belgium, Malaysia, and Colombia, with 75% of its revenue derived from international projects on five continents. The company's growth strategy is based on continuous innovation, allowing it to reinvest over 10% of its profits in its own R&D. GMV holds CMMI Level 5, the most prestigious model in the world for evaluating organizational processes, as well as numerous international patents.

TECHNOLOGICAL CAPABILITIES / PRODUCTS

GMV brings a unique value proposition by developing innovative projects and often being pioneers in designing and implementing solutions that have no market precedent:

- **Autonomous Mobile Robotics:** We are advancing in both final products and solutions that solidly integrate AI with mobile robotic systems. An example of our capabilities in this area is the **uPathWay** solution. In this line, we develop technological solutions ranging from autonomous inspection of assets using quadruped robots to autonomous material transport logistics. Other applications include specific services such as sweeping or cleaning robots and the development of complex systems for placing and removing cones on roads.
- **Collaborative Robotics:** Our approach focuses on developing projects where humans can interact with robots or automated machines, particularly in scenarios requiring a high degree of precision or complex industrial automation processes.
- **Industrial Automation:** We specialize in projects where complexity and innovation are key factors, and the reliability of the design is essential. We work in sectors where extreme conditions, such as high temperatures or the handling of heavy assets, demand robust and effective solutions.

Across all these areas, GMV positions itself as a value-added integrator, forging partnerships with leading robot manufacturers, continuously training and specializing our team, and delivering long-term value to our clients.

MAIN PROJECTS

Examples of recent robotics and automation projects:

GREENBOT, the autonomous farm vehicle that can find and get rid of weeds. [Read more.](#)

Passion Motorbike Factory and **GMV** are transforming last-mile delivery with a sustainable autonomous mobility solution. [Read more.](#)

Red Electrica and **GMV** transforming electrical substation inspections through autonomous robotics. [Read more.](#)

Sacyr and **GMV** sign agreement to automate the placement of traffic cones. [Read more.](#)

Cobot, a pioneering collaborative arm for Cepsa's laboratories. [Read more.](#)

PrimeCor Systems is a company dedicated to the design, development, integration, and marketing of its line of PrimeCor Systems® solutions and Safety-as-a-Service cloud services. PrimeCor is a safety augmentation system for unmanned aerial systems (UAS). Its technology is versatile, compatible with various configurations of UAS complying with aviation safety regulations. PrimeCor solutions offer Enhanced Containment with geocaging, geo-awareness, system monitoring, autonomous contingency planning, and Flight Termination, thus improving operational reliability.

TECHNOLOGICAL CAPABILITIES / PRODUCTS

PRIMECOR TRACKER EU Declaration of Conformity DRI: Tracker for UAVs with Direct Remote Identification (DRI) and Network Remote Identification (NRI) that provides UAS identification and location information to enable airspace awareness for unmanned traffic management (UTM) or U-space.

PRIMECOR ZERO C5 - C6 UAS Conversion Kit: It is a monitoring and safety management system for UAS that improves operational reliability through Enhanced Containment compliance with C5 and C6.

PRIMECOR ONE SAIL III - IV Risk Minimization Kit: Dissimilar redundancy system that monitors the entire UAS system, detects failures or errors and carries out mitigation actions through contingency plans, compliance with SAIL III and SAIL IV.

PrimeCor Cloud: PrimeCor Cloud offers integrated cloud-based services for remote pilots, operators, and fleet coordinators to manage and monitor their fleets, operations, and maintenance activities.

MAIN PROJECTS

U-ELCOMÉ project

PrimeCor is a subcontracted part of the U-ELCOMÉ Project, a three-year SESAR Digital Sky Demonstrator project, whose overall objective is to support the implementation of services for the safe integration of drones. As part of this project, PrimeCor has participated in the demonstration of simultaneous flights in Benidorm and Zaragoza, where it stood out as the main provider of trackers, integrated with Aslogic, ITG and ENAIRE, and the only remote identification solution manufactured in Spain with a Declaration of Conformity (EU).

Validation of PrimeCor technology in manned and unmanned airspace management in an emergency scenario

Successful participation of PrimeCor in a flight demonstration that consisted of manual and automatic tactical deconfliction between manned and unmanned aircrafts flying in the same airspace by the integration of PrimeCor Tracker solution on the manned aircraft and PrimeCor Zero on the unmanned aircraft while generating a series of airspace conflicts.

Integration of PrimeCor Systems in professional UAS

Vig-Sec drone, Bluenest, AVY, Wake Engineering, Universidad Politécnica de Valencia (UPV), and UMILES Group and CATEC, are some of the companies that are already flying safely thanks to the integration of PrimeCor technology in their professional UAS (fixed wing, multirotor, fixed-wing V-TOL, helicopter) dedicated to advanced and high-risk operations.

Integration with USSPs

PrimeCor has captured the interest of several USSP providers both nationally and internationally. These include Astra UTM with e& (Etisalat), Aslogic from the Universidad Autónoma de Barcelona (UAB), and Daliah from ITG and NTT Data with whom PrimeCor is already integrated and operating. This has been made possible by their system's ability to implement U-Space through their PrimeCor Tracker product with DRI and NRI.

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Telespazio Ibérica, with cartographic roots and over 20 years experience in Land-related solutions for large corporations, is a leading company in Europe in the field of new technologies applied to the territory. A global approach to asset management, allows Telespazio Ibérica to provide services covering the complete cycle from mapping generation with the latest technologies, to software solutions developments, combining Geographical Information Systems (GIS), SatCom and mobile devices with access to GeoDB. It offers specific solutions to markets with high technological requirements such as: Energy and Utilities, Telecommunications, Public Administration, Défense, Transportation, Emergency, Insurance, Banking and large corporations. Telespazio Ibérica is part of **Telespazio**, a European leader in provision of satellite services and Geoinformation applications, based in Rome, with more than 3.000 employees, presence in 15 countries, several space centres worldwide and a turnover of 650 millions in 2022.

TECHNOLOGICAL CAPABILITIES / PRODUCTS

Production of 2D Thematic and 3D Cartography. 24/7 Emergency and Security management.

SAR Interferometry.

Image Analysis and Processing (AI, BIG DATA, CLOUD). Orthoimage Generation, DTM.

Advanced UAS Services.

Integration and Maintenance of GIS Solutions. Satellite images selling and service platforms (SaaS).

Worldwide Provision of Satellite Telecommunications.

E-GNSS User Services.

MAIN PROJECTS

Copernicus: Mapping activities contracts in Land, Security and Emergency (24/7) domains.

EGNOS and Galileo: Operations support team for user management.

Civil UAV Initiative: Development of advanced geospatial services based on UAS flying in BVLOS.

Naturgy, Enel: Large GIS development services and operations support contracts, based on several GIS technologies.

Early fire detection: Satellite-based fire monitoring solution to protect EDP Redes España power grids.

ISSEC: Large innovation program for the development of early wildfire detection and monitoring solution based on unmanned platforms.

UAV Navigation-Grupo Oesía is a company specializing in the design of guidance, navigation, and control (GNC) solutions for Unmanned Aerial Vehicles (UAVs) since 2004. UAV Navigation-Grupo Oesía's flight solutions are used by a wide range of leading aerospace manufacturers for a variety of Unmanned Aerial Vehicles (UAVs), also known as remotely piloted aircraft systems (RPAS) or "drones". UAV Navigation is part of the Grupo Oesía, a Spanish multinational company dedicated to dual-use digital and industrial engineering, which develops and implements projects in more than 40 countries. It has 3,200 professionals in 18 corporate headquarters in Europe, Latin America and Asia. Throughout almost 50 years of experience, it has innovated products and services that benefit millions of people around the world, with the aim of creating a better, more efficient, safer and sustainable world. The industrial companies within the Grupo Oesía ecosystem are responsible for designing, developing, and maintaining cutting-edge technology for the Security, Defense, and Aerospace sectors, with a long track record of work in avionics for significant projects such as the Eurofighter EF-2000, A-400M, F-18, C-295, P3-B Orion, or MH-60R. The group is now involved in the most important UAV projects, including FCAS/NGWS, Eurodrone, and SIRTAP, among others.

TECHNOLOGICAL CAPABILITIES / PRODUCTS

- Flight Control Computer (FCC)/Autopilots
- Navigation Systems
- Ground Control Station:
- Mission Control Computer (MCC)
- Peripherals
- Simulation
- Cameras
- Tactical communications
- Secure communications
- Communication Management Systems
- SATCOM

MAIN PROJECTS

Grupo Oesía is actively involved in significant UAV projects, including Eurodrone, SIRTAP, and the future Remote Carriers within the European FCAS/NGWS program. Their commitment extends to comprehensive technologies for unmanned platforms, covering guidance, navigation, and control systems, secure communication systems (satellite links, encryptors, gateways), and mission systems (computers, audio managers, sensors).

UAV Navigation, a hyperspecialized company of Grupo Oesía, provides guidance, navigation, and control solutions used by global Tier 1 aerospace manufacturers. Clients like Alpha Unmanned Systems, Primoco, Elytron, and Wake Engineering collaborate on the U-SCUAR project funded by the Spanish CDTI (Center for Technological Development and Innovation). This project aims to design and manufacture a new VTOL platform capable of operating in medium-risk scenarios up to SAIL IV within the specific category of European regulations. The company prioritizes innovation, delivering advanced features like swarming and MUM-T in products such as the Visual Navigation System (VNS01) and GNSS-Denied Navigation Kit, enhancing navigation precision in challenging environments. Renowned for their reliability, these solutions operate seamlessly across diverse unmanned platforms and weather conditions.



Organizer:



ICEX

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