



LAZIO, SPACE TO INNOVATE

International Paris Air Show
Regione Lazio Stand
Hall 1 F 299



REGIONE
LAZIO



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ESA BIC STARTUPS

Lazio is a 'region of Space'. It was in our region that the first steps of the Italian space adventure were taken back in the 1950s, through the inspiration of pioneers as Luigi Broglio and Carlo Buongiorno.

This story continues until now. And Lazio is still, very much, a Region of 'Space'.

Today, the presence of industrial champions, together with high-tech, small and medium-sized enterprises, Universities and research centres and national and international institutions such as ASI (Agenzia Spaziale Italiana) and ESA (European Space Agency), strongly defines our region's economic and scientific profile.

As a matter of fact, we pride ourselves on being among the few regions in the world where all different components of the industry are well represented: from space transport (e.g. the European launcher VEGA), to design and development of satellites, to the ability of reading data and transforming it into services for our citizens, industries and public administrations. An activity where giants such as Leonardo work in close cooperation, and with great added value, with smaller companies.



FOREWORD

As future challenges put Space at the forefront of Europe's industrial strategy, this long history puts an additional responsibility on our current policy choices.

We, as a public administration, are ready to face them.

Not only with a full understanding of the strategic importance of this industry, but also with the willingness to continue working with our partners in the years to come: enterprises covering all sectors of the industry - from avionics and electronics, to air and maritime traffic management systems - and Universities and Research centres, very often at the forefront of the technology of the sector.

A Region proud of its important history in Space, and ready to carry this legacy into the future. This is the spirit animating our presence in Paris.

NICOLA ZINGARETTI

President of Lazio Region

In line with European strategic indications, as well as with its own smart specialization strategies, during the latest years, the Lazio Region has increased its support in the aerospace sector.

We've supported projects interlinking research and industrial applications, we have cooperated with ASI and ESA for the development of a startup initiative supporting the wider applications of space-born technologies, and we have promoted open innovation programmes specifically dedicated to the sector. At the same time, on the policy side, we are playing a significant role in renewing our National Space Strategy, anticipating new requests coming from both institutional and commercial markets.

All these activities have been carried out in close partnership with industry and academia, and with the belief that a deep and strong public and private partnership is the lifeblood and the key to the success of the aerospace industry in Lazio and Italy.

In 2019 Lazio confirms its presence at the Paris Air Show - Le Bourget - with its distinctive excellences, covering the complete range of aerospace industrial specialization sectors: from research to planning, from design to manufacturing and services.



FOREWORD

Our ambition is clear. Reinforce our long history and fully exploit the potential we have in a sector increasingly at the core of European strategies and our future.

GIAN PAOLO MANZELLA

Regional Minister for Economic Development,
Trade and Crafts, Startups and Innovation

The aerospace and security sector in Lazio is well represented by the Aerospace Technology District (DTA), established in 2004, as the first Italian Aerospace district.

KEY NUMBERS:

More than 5 billion € turnover

1.6 billion € in export

250 Companies

23,500 Employees

10 Research Centres **5** Universities

3,000 Professors, Researchers and other
Aerospace R&D Specialists

6 Incubators, Accelerators and
Technology Parks

In 2012, the DTA of Lazio was one of the founding partners of the National Italian Cluster for Aerospace Technology (CTNA): a cluster bringing together industrial and technology districts, institutions, agencies, 29 large enterprises, more than 800 SMEs, 81 research centres and 28 universities.

Further, the Lazio Region hosts an Aerospace Technological District and the National Aerospace Technological Cluster, in addition to 10 national research centres, the Italian Space Agency (ASI), the National Air Traffic Control Service Provider (ENAV) and the European Space Research Institute (ESRIN).

In 2019, Competence Centre “Cyber 4.0” was established. It is led by Sapienza University, with 37 partners from industry and science, and will focus on cyber security.

The Lazio aerospace sector is the core of several globally renowned national and international space programmes, such as the ESA Vega launcher (65% of which was built in the province of Rome) and COSMO-SkyMed (one of the most advanced satellite systems in the world, with many strategic applications for environment control and natural disaster management).

This brochure contains a brief description of the leading Aerospace players located in Lazio, the enterprises hosted in the Stand, and the investment opportunities currently available at the ESA BIC Lazio.



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Aerostrutture is specialized in the manufacture and assembly of sheet metal parts. We do all procedures in-house from raw material to end product, including heat and surface treatments, welding and painting.





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Unified Collaboration
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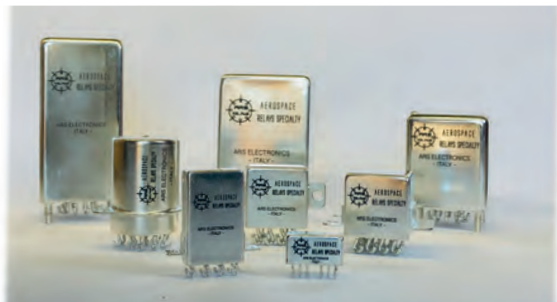


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ARS ELECTRONICS manufactures highly reliable RELAYS, TIMERS & SENSORS for defense & avionics applications. Our main capabilities are to replace obsolete devices with alternatives that are 100% equivalent in FIT, FORM & FUNCTION and to develop & manufacture any kind of product according to customers' specifications.

Assembly and tests are carried out in our Italian factory.

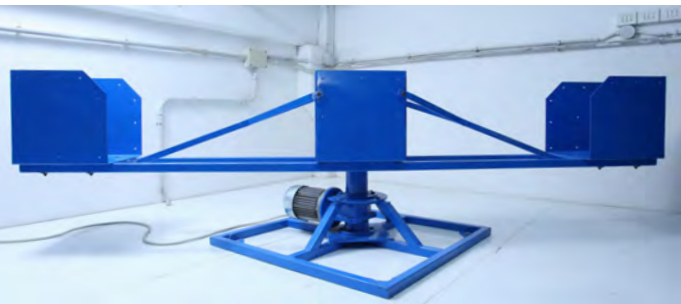
ARS ELECTRONICS is proud to offer an extensive line of products which comply with MIL-STD-810G & DO160.





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Testing laboratory specializing in DO 160 and MIL STD.
Notified Body for EMC and R&TTE Directives for the CE marking.
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ELECTRON SOURCE Co

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Electron Source Co. is a quality system certified company, with 30 years' experience, manufacturing high-quality electromechanical relays, solid state relays, timers, voltage sensors, frequency sensors, current sensors and phase sequence sensor. The Company has the knowledge to reproduce obsolete items with the same Fit, Form & Function as the original device by new design and reverse engineering. An MRO smart solution!





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GMSPAZIO is Distributor on behalf of AGI, Phoenix Integration, Kratos, Kanguru, PACSESS, and microdrones and offers services related to Software Design, Development, Testing, and Training, Remote Sensing Imaging and Modelling & Simulation subjects.





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HTT is a Custom design and manufacture company producing Transformers and Inductors, Electric motors and Generators, Power supply, Converters, Power Units for Hi-Rel and VHi-Rel electronic equipments to satisfy the most critical customers' requirements.

With 30 years heritage, HTT also offers build to print, reverse engineering and special processes complying with the most important international standards and is involved in some of the most important international Aerospace and Defense programmes.

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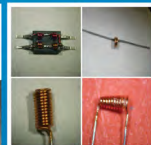
TRANSFORMERS



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AEROSPACE

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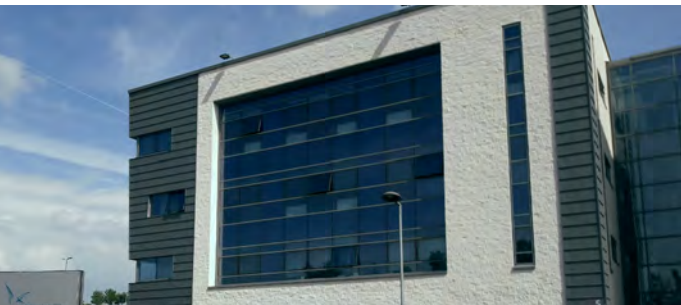
The Company is a worldwide leader in the development, production and distribution of galley inserts, trolleys and seating products for both commercial and business aviation. The Company boasts a consolidated experience in the design, production, certification and maintenance of Espresso Makers, Coffee Makers, Water Heaters, Trash Compactors, Induction Ovens, Cooking Stations, Trolleys, Standard Units, Seating Products, Accessories and consumables.





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Interconsulting is a private Systems Engineering company skilled in the design and development of embedded systems and applications for Aerospace, Defence and Security markets. Its extensive knowledge of the most important technology domains and its involvement in R&D programmes, make it leader in Italy in the integration and development of embedded real-time equipment for Mission and Safety critical systems.





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MES, established in 1958, started its activity producing precision mechanical parts and assemblies mainly for the military market.

The Company gradually expanded its activities and today, with 120 employees and 10 mechanics and electronics engineers, it can satisfy customer demands, always in full compliance with most stringent quality requirements in three main areas: Mechanical engineering and production, Electronic engineering and production and Opto-electronic engineering and production.



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Miprons is a new born, innovative startup, that aims at developing and prototyping an innovative bi-propellant micropropulsion system, internationally patented since 2017. It is characterized by miniaturized combustion chamber (order of 5-20mm, depending on the thrust) and high performance: in particular, $I_{sp} > 320[s]$ and thrust $0.01 < [N] < 20$. All that makes easily achievable fast orbit changing, for commercial constellations, also with heavy payloads (10° in 9-10 days for a 3u+3u of payload).





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OMS has been manufacturing high-precision mechanical commodities by commission for almost 40 years. The production site has an internal surface area of 2,500 sqm and a work area of 5,000 sqm dislocated in two plants. The workshop performs milling, turning, drilling, grinding, polishing and assembling.

The company is classified as a qualified and approved supplier of critical parts for the aerospace sector.

The company is certified 9100:2018 and 14001:2018.

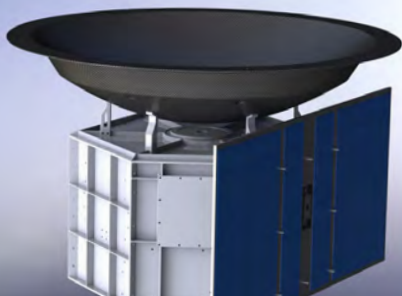




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Progetti Speciali Italiani operates in the Aerospace, Defence and Homeland Security sectors. Its industrial turnover is about 20 MEuro with nearly 200 employees. PSI has a set of prestigious National and International Customers for which it has developed:

- Nano/Microsatellites for Dual Use application and relevant Payloads
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- Consultancy on the Ground Segment of Large TLC constellations
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SICAMB was founded in 1975 with the purpose of the production and maintenance of Martin-Baker ejection seats and the production of aero-structure assemblies. SICAMB specialises in design, development and manufacture of major aero-structure assemblies, such as passenger and cargo doors, floor grids, thrust reversers, wings and composite components for several military and civil aircraft and helicopters. The company is fully qualified for AN/EN, PART 21, PART 145, NADCAP, BAC and AIPS specifications.



AIRBUS

SPACE ENGINEERING

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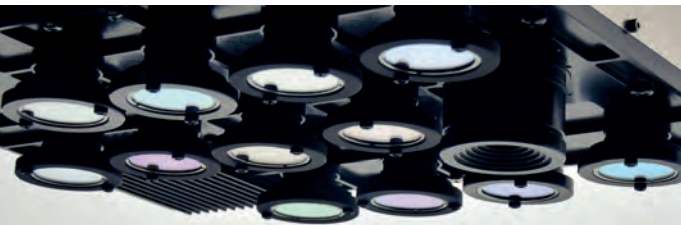
Space Engineering is an Italian space industry leader with 30 years of experience in space technologies and satellite communications. Since 2015 it is 100% part of the world leading Airbus Defence and Space, Space Systems, Telecom division. Space Engineering innovates in 5G and Earth Observation through flexible antennas and payloads, multiband ground and satcom terminals, M2M gateways, smart modems and Inter-Satellite Link solutions.





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Since 1998 SUPERELECTRIC has focused its activities on the development of multispectral georeferenced EO Sensors. SUPERELECTRIC designs and develops multispectral and Hyperspectral imaging systems for aircrafts, UAVs and fixed point observation devices, for environmental monitoring, Precision Agriculture and Cultural Heritage Preservation markets. SUPERELECTRIC introduces its family of systemONE imaging spectrometers at Le Bourget International Air Show 2019.





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Virtualmind is a Design & Engineering company which won a Design Award 2019 with Fly 360°, a nanodrone with 360° technology. Our vision is focused on new technologies and innovative design for the Industrial Market. We have over 200 Patented Technologies. Our solutions: UAV-USV integration, 360°/HUD Helmet integration, Automotive 360° Cameras, Harbour Security, Anti-Terrorism monitoring/Facial Recognition, Traffic Control Cameras with Pollution Analysis Sensors, VR Simulators & Training and 360° live Broadcasting Systems.



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Leonardo is one of the world's top ten players in Aerospace, Defence and Security, a trusted long-term partner of choice for governments, institutions and private customers, delivering cutting-edge and dual-use technologies. Headquartered in Italy, the Company has four domestic markets (Italy, the United Kingdom, the United States, Poland), as well as a significant industrial and commercial presence in over 20 countries. Its products, systems and services are currently in use in about 150 countries.



LEADING INTERNATIONAL PLAYERS



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Telespazio, a joint venture between Leonardo (67%) and Thales (33%), is one of Europe's leaders and one of the world's main players in satellite solutions and services. Telespazio operates worldwide through numerous companies, and has a wide international network of space centres and teleports.

Telespazio relies on a wealth of experience of the highest level, stemming from technological expertise acquired over 50 years of business practice.





AN ASI / TELESPAZIO COMPANY

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e-GEOS (ASI/Telespazio), is a leading international player in the EO and Geo-Spatial Information business.

From data acquisition to the generation of reports, e-GEOS is working for multi-source big data analytics and to gain access to application platforms for defense and intelligence, maritime surveillance and all land and sea monitoring activities. e-GEOS is the global distributor for COSMO-SkyMed Constellation and has acquired a leading position within the European Copernicus Programme.





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Thales Alenia Space, a joint venture between Thales (67%) and Leonardo (33%), is a key European player in space Telecommunications, Navigation, Earth Observation, Science & Exploration, Orbital Infrastructures & Space Transport. The company also teams up with Telespazio to form the “Space Alliance”, which offers a complete range of services and solutions. Thales Alenia Space posted consolidated revenues of about 2.5 billion euros in 2018, and has 8,000 employees in 9 countries.



LEADING INTERNATIONAL PLAYERS



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Avio is a leading international group in the construction and development of space launchers and solid and liquid propulsion systems for space travel, at the cutting-edge of the sector for its know-how and more than 50 years of experience. Avio operates in Italy, France and French Guyana with 5 facilities, and approximately 900 highly-qualified employees, 30% of them involved in research and development. Avio is a prime contractor for the Vega and a sub-contractor for the Ariane programmes, placing Italy among the few countries capable of producing a complete spacecraft.



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Established in 1951, Elettronica Group is a world leader in Defence & Security. A 360° partner in Electronic Warfare, Cyber Electronic Warfare, Intelligence, Education & Training, its products are deployed for key operational missions, from Strategic Surveillance, to Self-Protection, Sigint, Electronic Attack and Operational Support for airborne, naval and ground applications. The Group is on board of all the key modern military platforms: Italian PPA, Eurofighter Typhoon, NFH-90 helicopter, Italian and French ship class Horizon and FREMM.





business incubation centre

Lazio

ESA BIC STARTUPS

ESA Technology Transfer and Business Incubation Office initiated its ESA Business Incubation Centres (ESA BICs) in 2003.

Today 20 ESA Business Incubation Centres, spread over more than 60 cities, in 17 European countries aim to work with and inspire entrepreneurs to turn space connected business ideas into commercial startup companies, applying space technologies, solutions and systems in everyday life.

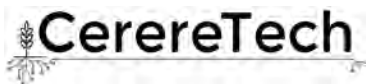
ESA BIC (Business Incubation Centre) Lazio is a partnership among Lazio Region, ASI (Italian Space Agency) and ESA and it is part of the Innovation and Ventures Office (TIA-AI) of the European Space Agency.

ESA BIC Lazio offers an incubation programme with integrated services for creating and developing space-tech based startups and support to finance and technology transfer.

centrale valutativa

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Tethys is an innovative precision-farming tool developed by Centrale Valutativa to optimise the irrigation water management, guaranteeing savings of at least 20%. Tethys is a smartphone and web application based on an evapotranspiration model (SEBAL), using satellite and other data to provide farmers with advice on proper irrigation volumes and times.



Web site:	www.cerere.tech (under construction)
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CerereTech's mission is to improve the quality and sustainability of agricultural production. Specifically, the exploitation of Hyperspectral Earth Observation data through Deep Learning techniques will provide monitoring of plant phenology, plant disease early detection and input prescription capability, as well as assessment of the status of crops. CerereTech will make available to producers and transformers a web based (Saas) platform, enabling a low cost access to an advanced sets of services.



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ColomboSky has created a novel service, called AquaX, which is a very accurate and complete water quality monitoring tool tailored to marine aquaculture. The service is based on a new satellite monitoring approach on a wide view of the context area, for early detection and warning of approaching water threats (harmful algae blooms, jellyfish invasions, oil spills, marine debris), reducing the risk of loss of stock and missed profit.



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The SoCoA (Soil Consumption Alert) service intends to use Copernicus Sentinel high revisit and the free of charge satellite data policy to develop a new service to provide very timely alerts to Public Administrations about changes in their land use. The service will be offered to customers on a subscription basis, with access through the web and an easy-to-use application.



Web site:	www.in-quattro.com
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In Quattro has developed an innovative Two-Phase advanced thermal management system for high power electronics, using flow boiling heat transfer to cool electronic devices. This solution, compared to traditional cooling systems (liquid cooling or heat pipes), can achieve significantly higher heat transfer coefficients at significantly lower flow rates and pumping power and it can be used for cooling of power electronics in the aerospace industry, electric vehicles and high performance computers.



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The use of information extracted from satellite acquisitions in industrial applications is still rather limited. The objective of Latitudo 40 is to overturn this paradigm, and to capture the value of the rapidly changing and growing EO market by proposing a new platform for EO data exploitation based on the concept of information as a service. The platform proposes new solutions for solving land monitoring and planning problems at a lower cost compared to the existing products.



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In order to develop a system to improve the safety of workers on construction sites, ProEsys develops a portable LoRa gateway integrated with a satellite modem to allow an instant, always-on Low Power Wide Area Network (LPWAN) to collect alarms and data from sensors and wearable devices, for local and remote monitoring of construction sites.

SAFE STRUCTURES COMPANY

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Safe Structures Company is developing the GAMBE project: a cost effective system for bridge and viaduct monitoring using the accelerometer data of drivers' smartphones, georeferenced by means of satellite navigation systems (GNSS), thus using big data obtained during the normal use of smartphones by the cars drivers. The application intends to enlarge the number of structures monitored as well as to reduce the monitoring costs, since no fixed sensor on the structure is required.



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The business idea offers a first solution to European pilots of Ultralight aircrafts continuously requesting availability of aviation weather forecast data for flight planning and real-time data updating during the flight. The service is based on the use of meteorological data, navigation and satellite telecommunication.

SPIDERLOG

Smart Logistic

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SPIDERLOG is focused on the monitoring and tracking of shipments through navigation, TLC and GNSS receivers in combination with Bluetooth, NFC and wireless technologies. SPIDERLOG exploits new tracking technologies, low-power sensors, IoT connectivity and blockchain by monitoring position, temperature, vibrations, humidity and light, facilitating the solution of disputes caused by loss, damage, lack. SPIDERLOG solutions are scalable and integrable with SAP and all different logistic dashboards and backends.



Web site: www.studiomapp.com
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Qirate is the service to deliver accurate and reliable information about an urban area in a simple and visual way in support of the decision-making process for home buying or accommodation booking, by providing a comprehensive analysis of the neighbourhood at street scale. Qirate rates quality of life in urban areas by merging different data sources, including Earth observation data, with machine learning and data mining in an innovative way to offer an all-new service.



Web site:

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TITAN4 is focused in processing and analysing data from space satellites, using the Interferometric Synthetic Aperture Radar (InSAR) model, in order to prevent damage to structures and infrastructures through the prompt identification of natural or induced displacement phenomena, or monitoring long term evolution. TITAN4 monitors the structural stability and health of public and private civil infrastructures, such as buildings, railways, roads, bridges, dams, pipelines and docks.



Web site:	www.urbyetorbit.it
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The company develops a set of management services to support land decision-making based on the main principles of business intelligence through satellite technology for Earth observation, standardization and data reconciliation services and data mining/fusion. UrbyetOrbit is developing a cloud based platform for data mining activities to efficiently and conveniently manage the local and informational resources of different Italian Municipalities.



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“QUAKEBOTS SAT” is the solution that addresses the specific challenges in the management of seismic events. The system consists of a distributed IoT neural network, made up of intelligent Data Acquisition Units (DAUs), where every node is capable of analysing vibrations automatically adapting its own algorithm to the specific structure’s dynamic response, integrated with a GPS-GNSS sub-centimetre positioning system.



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A satellite with a large white parabolic dish antenna is shown in space, orbiting Earth. The Earth's surface, with clouds and landmasses, is visible in the background against the blackness of space.

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