

# ITALY AT IAC 2025

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Italian Pavilion - Stand 297

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**MESSAGES FROM THE ITALIAN  
TRADE COMMISSIONER,  
THE CONSUL GENERAL OF  
ITALY IN SYDNEY AND THE  
AMBASSADOR OF ITALY TO  
AUSTRALIA**



On behalf of the Italian Trade Agency, I am delighted to welcome you to the Italian Pavilion at IAC 2025. We are proud to present 20 of Italy's most innovative companies, showcasing the full breadth of our nation's space industry – from advanced upstream manufacturing of propulsion and satellite systems to cutting-edge downstream applications in Earth Observation and IoT. This diverse expertise is particularly relevant to the growing Australian space sector, offering powerful tools and partnership opportunities. We invite you to engage with our exhibitors and discover the immense potential for collaboration between Italy and Australia in shaping the future of space.



**Simona Bernardini**  
*Italian Trade Commissioner  
for Australia and New Zealand*



Embassy of Italy  
Canberra



Consulate General of Italy  
Sydney

I am proud to welcome the Italian Pavilion at the 76th International Astronautical Congress in Sydney. Twenty Italian space companies are showcasing innovative solutions and advanced technologies that combine research, creativity and know-how – hallmarks of Made in Italy and of a sustainable path towards a greener economy. At this year's conference, dedicated to 'sustainability and Earth resilience', I am confident that Italy's scientific and technological contributions to space exploration will further strengthen collaboration with Australia and support our shared future goals. Australia

offers Italy opportunities as a base for satellite ground stations, data communication and geophysical observation, while joint projects between our researchers, institutions and entrepreneurs can generate new synergies, businesses and jobs, benefitting sectors from mining and energy to education and health. I wish you an inspiring journey through the Italian and global space community, with access to the latest innovations, research and partnerships, and I warmly thank the Italian Trade Agency in Sydney for their ongoing support.



**H.E. Paolo Crudele**  
*Ambassador of Italy to Australia*

IAC 2025 offers a unique opportunity to highlight Italy's excellence in the space sector. Italy has long been a key contributor to global space research and innovation, and I am proud to see this tradition reflected in the strong presence of the Italian Pavilion. The participation of leading Italian companies and institutions highlights the strength of our scientific community and its commitment to sustainability, research and technological advancement, as shown also by the success of the event 'From Milan to Sydney', organised in Sydney last February by the Italian institutions. The Congress also represents a valuable opportunity to deepen the collaboration between Italy and Australia in the space sector, an area rich with potential for innovation, partnership and progress. I extend my best wishes for a successful congress and fruitful engagement with Italy's space industry.



**Gianluca Rubagotti**  
*Consul General of Italy in Sydney*



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# ITALIAN ORGANISATIONS AND THE SPACE SECTOR

## ITALIAN TRADE AGENCY

Established in 1926, the Italian Trade Agency (ITA/ICE) is the Governmental Agency dedicated to promoting Made in Italy products worldwide, supporting the growth of Italian companies and attracting foreign investments to Italy.

Operating from its headquarters in Rome, ITA has a global network of 87 offices in 74 countries, serving as the ideal gateway for enterprises seeking to establish business relationships with Italian partners, source Italian products or explore investment opportunities in Italy. It focuses on facilitating, developing and promoting Italian economic

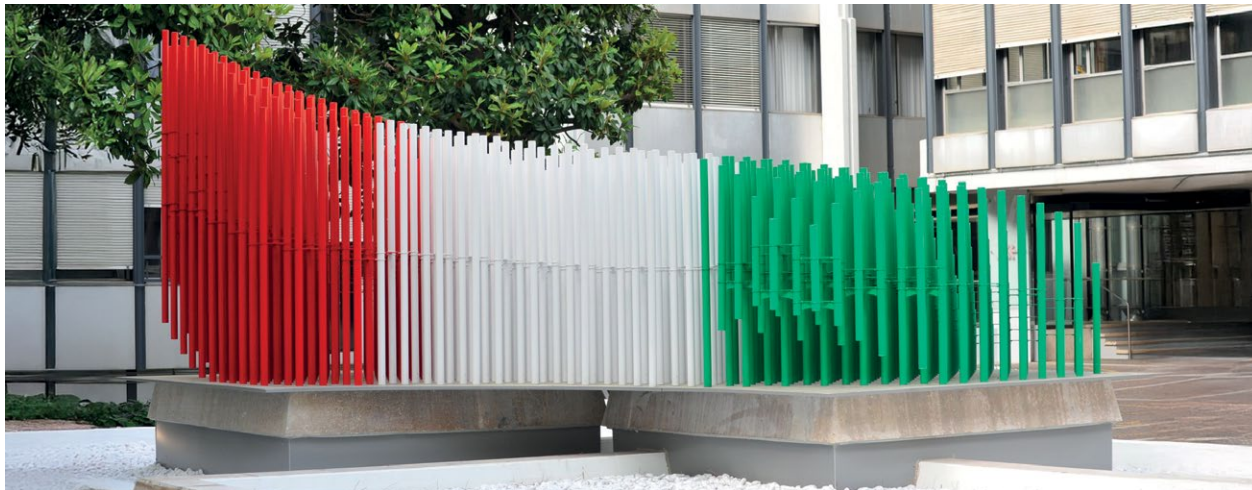
and trade relations with foreign countries, with a particular emphasis on the needs of SMEs, their associations and partnerships.

With a motivated and modern organisation and an extensive network of overseas offices, ITA provides information, assistance, consulting, promotion and training to Italian small and medium-sized businesses. Utilising the latest multi-channel promotion and communication tools, ITA works to assert the excellence of Made in Italy on the global stage. The office in Sydney is responsible for both Australia and New Zealand.

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## ITALIAN SPACE AGENCY

The Italian Space Agency was established in 1988 with the aim of promoting, developing, and disseminating scientific and technological research applied to the space and aerospace fields and developing and implementing Italy's space policy in compliance with government guidelines. ASI is now among the top six space agencies in the world, a record that reflects the prestigious role that Italy plays in the space sector both at European and global level. Italy, thanks to San Marco satellites, was among the pioneers of the space age and today is the third largest contributor to the European Space Agency (ESA), after Germany and France and one of the first signatories of the Artemis Accords for NASA's new lunar program. In addition to its headquarters in Rome, which also hosts the Space Science Data Centre, ASI has operational centres in Matera (Giuseppe Colombo Space Centre), Selargius near Cagliari (Sardinia Deep Space Antenna Research Center), and Malindi in Kenya (Luigi Broglio Space Centre).

Italy is one of the few countries in the world that, through its own agency, operates in all space application fields. ASI also demonstrates strong diplomatic capabilities and boasts strategic collaborations with all the major space agencies. Thanks to these collaborations and continuous cooperation with the scientific community and Italian manufacturers, the Agency has achieved significant results in the fields of studying the cosmos, human and robotic

exploration, space propulsion, telecommunications, satellite navigation and Earth observation. One of the most important results of these collaborations is the International Space Station (ISS), where Italians belonging to the European astronaut corps and of the Italian Defence work in turns. More than 50% of the living modules on the ISS were built in Italy.

Within the Artemis Program, in 2025 ASI has signed a contract with the Italian industry for the preliminary design phase of MPH, a multi-purpose habitation module envisioned as a permanent habitat on the Moon, designed to operate in synergy with other components of the Artemis architecture.

But ASI also looks further: the Italian Space Agency and SpaceX have just signed an unprecedented agreement to transport Italian experiments on the first Starship missions aimed at carrying commercial payloads to Mars.

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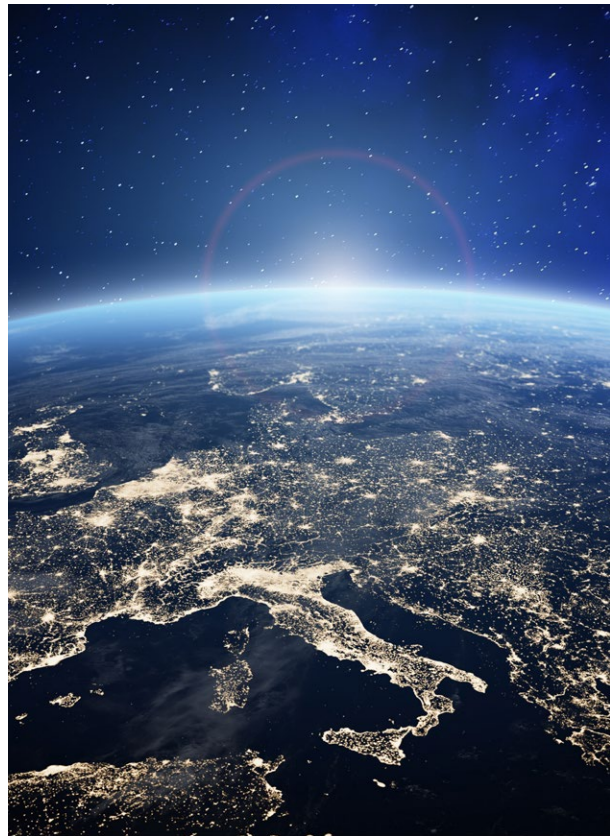
## THE ITALIAN SPACE INDUSTRY

With an annual revenue of €1.6 billion, the Italian space industry is one of the few in the world to possess a complete, end-to-end supply chain. This robust ecosystem, which employs approximately 6,000 people, comprises 200 enterprises, 12 technology clusters, and three national industrial associations. This integrated structure allows Italy to manage complex missions from conception to completion, producing innovation that benefits the entire value chain.

Italy's capabilities span the full spectrum of space activities, with world-renowned excellence in several key domains. In Earth observation, the dual-use COSMO-SkyMed satellite constellation provides critical all-weather monitoring for civil and security applications. The nation helps guarantee sovereign European access to space through the Avio-led Vega family of launchers. Furthermore, Italy has established undisputed leadership in human spaceflight, having manufactured over 40% of the International Space Station's habitable volume, and now plays a pivotal role in the Artemis program to establish a sustainable human presence on the Moon.

This industrial prowess is amplified by strong international partnerships. As a founding member and the third-largest contributor to the European Space Agency (ESA), Italy has pledged around €3 billion, making it the top contributor to optional programs focused on strategic sectors like exploration and transportation. The historic collaboration with NASA, from early space exploration to being one of the first signatories of the Artemis Accords, underscores its role as a key transatlantic partner. With a forward-looking strategy that embraces the 'New Space' economy

– which saw startups attract €170 million in investment in 2024 – the Italian space industry is poised to continue its trajectory as an indispensable architect of humanity's future in space.



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# PARTICIPATING ITALIAN COMPANIES



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# ALCA TECHNOLOGY



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AlcaSpace, a division of Alca Technology Srl, operates successfully in the design, construction and testing of space simulation chambers of various shapes, sizes, type of cooling system and thermal performances. Our TVACs allow you to stress space components or complete satellites at vacuum values compatible with those of space, at temperature variations that can reach  $-190^{\circ}\text{C}$  and  $+150^{\circ}\text{C}$ .

## MAIN FEATURES of OUR TVACs:

- Maximum internal diameter up to 5m
- Temperature ranges from  $-190^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Pressure lower than  $1 \times 10^{-7}$  mbar
- LN2 circulation
- Pressurized GN2 circulation
- Intermediate fluid circulation cooled by refrigerator
- In-house developed and interactive software
- Special application for testing space electric thrusters up to 5kW: Characterization of engine performance, in terms of thrust, specific impulse, efficiency.





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# ALMA SISTEMI

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ALMA Sistemi S.r.l. is an Italian SME providing high-level engineering and consultancy services in the space and defence market. Founded in 2005, it has acquired significant expertise in Research and Technology Development (RTD) projects and industrial contracts in the space and defence sector, with specific reference to MGSE/EGSE – Mechanical/Electrical Ground Support Equipment and integrated systems for defence. ALMA is a trusted supplier of integrated systems production at national and European level. Its major customers are Airbus Defence and Space Germany, Spain and France, Thales Alenia Space Italy and France, OHB System Germany and Italy, Telespazio S.p.A. and Elettronica S.r.l.

ALMA provides design, development and testing of transport containers, tilting trolleys, lifting devices, test adapters and other mechanical tools for satellites (up to 7 tons) and payloads suitable for use in ISO8, ISO5 and ISO7 clean rooms, as well as system test benches for defence. ALMA's RTD portfolio currently includes 4 Horizon 2020 and Europe projects, 3 national and 9 industrial contracts in ESA programmes.



The company's expertise also extends to value-added RTD engineering, such as Earth observation, scientific data exploitation, navigation, remote sensing data and image processing. Recently, ALMA has been venturing into RTD for the telecommunications sector with classic and plasma meta-surfaces and radar absorber materials in different electromagnetic bands.

ALMA is ISO 9001:2015 certified for mechanical engineering and is compliant with ESA ECSS standards.



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# ALPHA IMPULSION



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We develop and produce autophage engines for rockets, satellites and Orbital Transfer Vehicles. We develop OPAL, an in-space thruster capable of increasing by 40% the payload mass to MEO, LEO, LLO and Deep Space. We are also developing GRENAT, a Single-Stage-To-orbit with a payload capacity of 1000 kg in LEO for less than 4 000\$/kg.



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# APOGEO SPACE



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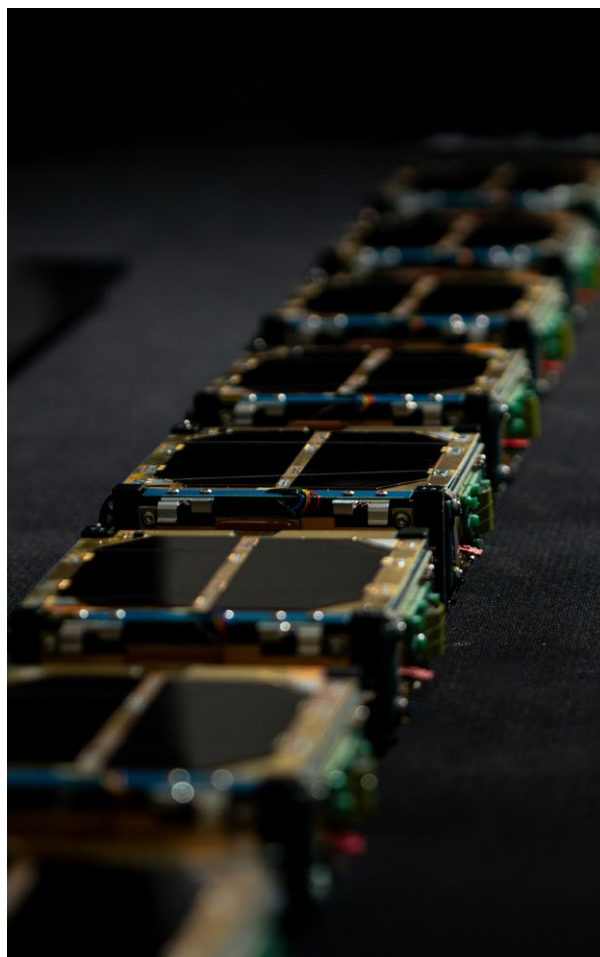
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Apogeo Space is developing the first private Italian picosatellite constellation for IoT telecommunications. This constellation will provide ubiquitous satellite connectivity and near real-time data transmission, even in remote areas. By 2027 it will consist of around 100 satellites, ensuring continuous connectivity.

Apogeo also offers space manufacturing services, including the design, production, testing and management of satellites and complete constellations. The company leverages its expertise in miniaturisation, multifunctional subsystem development and integration. Grants and technology spin-offs are also part of Apogeo Space's activities.

In 2022 the company received €5 million in financing from Primo Space, the first Italian venture capital fund dedicated to the space economy.





# ARCA DYNAMICS



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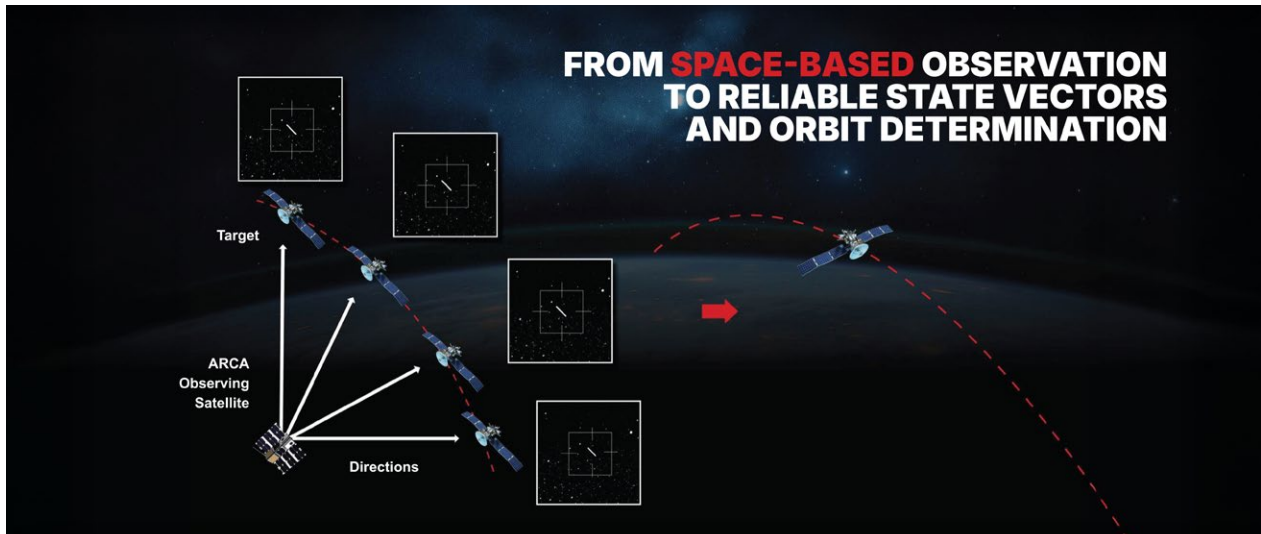
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ARCA Dynamics is an Italian company specialised in Space-based Space Surveillance and Tracking (SST) solutions. Leveraging proprietary detection algorithms and in-orbit sensors, the company develops advanced capabilities for object detection, orbit determination, RF

signal analysis, and on-orbit inspection. ARCA Dynamics focuses on delivering real-time data and actionable intelligence for collision avoidance, jamming detection, and space traffic management. With a solid heritage in small satellite missions, the company integrates optical and RF payloads on microsatellite platforms, enabling autonomous onboard processing and agile mission reconfiguration. Its unique combination of inspection capabilities and proprietary algorithms positions ARCA Dynamics as a strategic partner for commercial and defence actors in space domain awareness.



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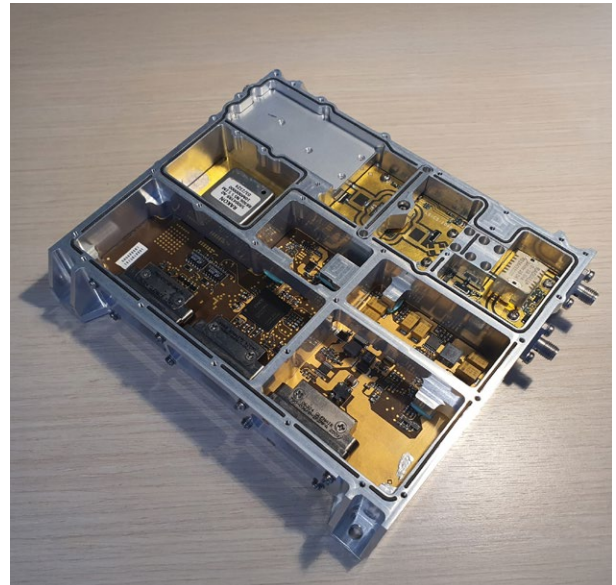
🌐 www.aresys.it

ARESYS S.r.l. is an Italian SME, privately owned and a spin-off of Politecnico di Milano. Since the end of 2003, ARESYS has been providing solutions to the aerospace & defence, industry and energy markets by designing and developing ad-hoc innovative monitoring solutions at HW & SW level, exploiting cutting-edge sensing technologies such as optical and microwave Radar/SAR imaging and sensors.

Based in Milan, Rome and Matera, ARESYS is divided into five technical areas, each of them covering specific technologies: from Engineering to Instruments (upstream) and Applications (downstream), passing through Simulation and Operational Processors (midstream). Nowadays ARESYS can count on a group of more than 85 highly skilled professionals, with an expected annual turnover of about €10M.

ARESYS' main products are:

- SPAYDER, a SAR payload deployable with specific customisations to swarms of small satellites, stratospheric vehicles and UAVs;
- PDT, an X-band payload data handling and transmission sub-system for small satellites;
- OBP, an on-board processor for SAR and optical payload data, specialised for automatic target recognition;
- RADAR Bench, E2E RADAR Test Equipment.



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# AVIO

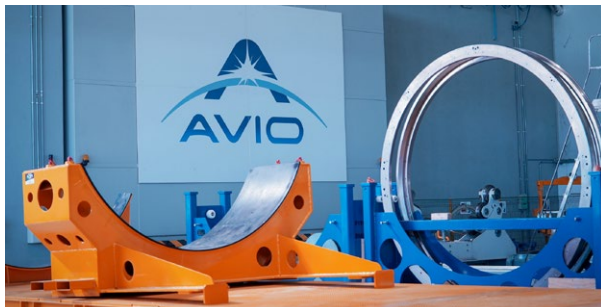


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Avio is a leading international group engaged in the construction and development of space launchers and solid, liquid, and cryogenic propulsion systems. The experience and know-how built up over more than 50 years put Avio at the cutting edge of the space launcher sector and defence programmes. Avio is present in Italy, France, the United States, and French Guiana, employing approximately 1,400 highly qualified personnel. Avio is the Launch Service Provider for the Vega programme and a subcontractor for the Ariane programme, placing Italy among the limited number of countries capable of designing, producing and operating a complete space launch system.





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# DAC - CAMPANIA AEROSPACE TECHNOLOGICAL DISTRICT



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DAC, founded on 30 May 2012, aims to strengthen Campania's aerospace ecosystem by fostering collaboration among industry, academia and research.

Leveraging the region's industrial heritage and innovation network, DAC promotes competitiveness and international positioning in aerospace. It counts 170 members: 32 large companies, 15 universities and research centres, and 123 SMEs and organisations.

The District drives joint, market-oriented initiatives in four sectors: Commercial Aviation, General Aviation, Maintenance and Transformation, and Space and Launchers. DAC focused its activity on four technological pillars: Urban Air Mobility, Hypersonic Flight, Digitalisation of Industrial Processes, Nano and Microsatellites. The latter is further organised in three platforms: one devoted to Upstream Space Technologies, one to Downstream Space Services, and the last related to Science and Biology applications.



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# DAVI - PROMAU



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Davi Plate Rolls are able to roll all components used in the Aerospace industry: whatever the material, the dimension

and the bending radius requested, Davi range presents an alternative to offer to the customer. Whether we are talking about building parts of capsules, nacelles, booster or planes in different materials (any type of steel, aluminum, titanium or other alloys), Davi can supply the ideal plate bending machine, through both standard machines and products deeply customized, that are granted by an R&D Division that is in constant growth and evolution, a unique feature among the Plate Rolling machine manufacturers.



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# EIE GROUP

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EIE GROUP Srl, founded in 1989, is a leading Italian company headquartered in Venice (Mestre), with an advanced Integration Facility featuring two cleanrooms. Renowned for delivering complex, high-precision systems for astronomy, aerospace, and Big Science, EIE operates across Engineering, Procurement, Construction & Commissioning (EPCC). The company is internationally recognized for its contributions to major observatories such as the VLT, ELT, ALMA, VST, and ASTRI.

In the Space & Defence sector, EIE designs and integrates ground testing facilities for space instrumentations, such as the VERT-X project for ESA's ATHENA mission, develops launch pads and deflector systems for spaceport applications. Research and development activities also focus on the design of innovative space optical instrumentation for Solar System Exploration, such as the HYPsOS - HYPerspectral Stereo Observing System) stereo-hyperspectral camera; or for Earth Observation, HYPsOS-EO. EIE's flexibility, innovation, and technical excellence make it a strategic partner in scientific infrastructure and cutting-edge space applications. Approximately 90% of its activity is focused on international markets, driven by a commitment to sustainability, transparency, and engineering excellence.





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# K3RX



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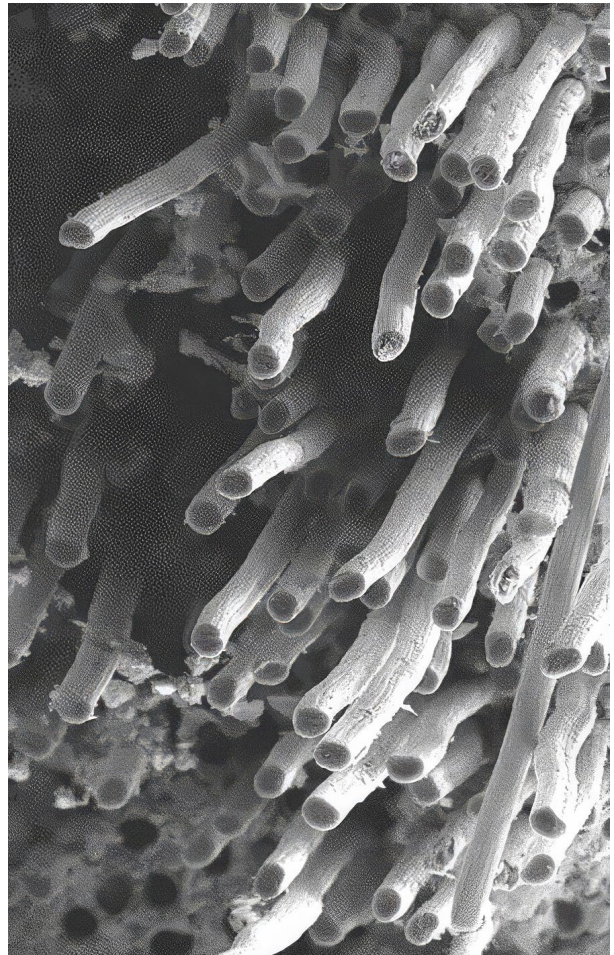
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K3RX - “Extreme Ceramics” is an Italian deep-tech spin-off company from the Italian National Research Council (CNR). It specializes in the development and manufacturing of high-performance components using Ultra-High Temperature Carbon Fiber Reinforced Ceramic Matrix Composites (UHTCMCs), materials capable of withstanding temperatures exceeding 2000°C (3600°F) with near zero erosion.

UHTCMCs components offer superior erosion resistance, thermal-shock tolerance, damage resistance, lightweight design, customizable properties, and reduced maintenance costs. Applications include thermal protection tiles, rocket engine nozzles, chamber inserts, winglets, leading edges, nosecones, flaps, mechanical connectors (nuts, screws, supports), brake discs and pads. These components are specifically designed for industries such as aerospace, defense, transport, and energy, or any sector that requires materials capable of withstanding extreme heat and wear conditions.





# LAUNCHERSCANNER



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Launcherscanner is the first marketplace for the new space economy, connecting satellite operators with launch providers, deployers and logistics partners. Our platform streamlines the process of matching CubeSat payloads with the most suitable launch opportunities, optimising compatibility based on form factors, orbits, schedules and regulatory constraints.

By integrating technical data, AI-driven matchmaking and user-friendly dashboards, Launcherscanner reduces the complexity and time required to access space. Founded by aerospace and software engineers, the company supports both commercial and institutional missions, offering tools for mission planning, data integration and compliance tracking.

We enable smarter rideshare decisions, accelerating the path to orbit for non-traditional payloads and small satellite missions worldwide.

### Mission Planning



| Payloads  |        |
|-----------|--------|
| Payload A | 2.5 kg |
| Mass (g)  | 3 U    |
| Payload B | 4.0 kg |
| Mass (g)  | 6 U    |
| Payload C | 1.2 kg |
| Mass (g)  | 3 U    |

Form Factor

3U

Orbit

SSO

Launch Date

January 2025

Search



BUSINESS INCUBATION CENTRE | MILAN



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# LEAF SPACE



SPACE CONNECTED, LIMITS GONE.

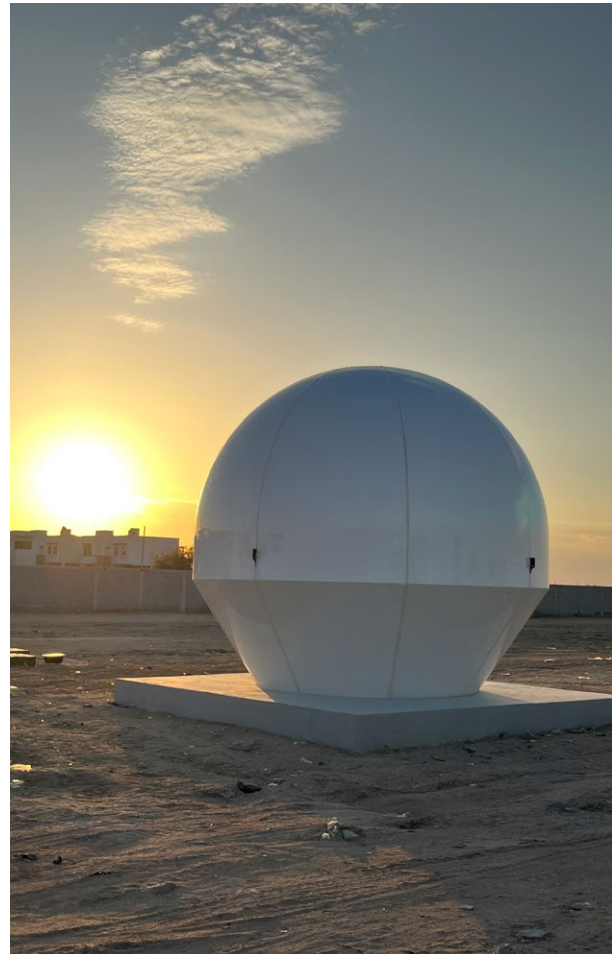
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Leaf Space operates a fully owned, global network with 36 antennas across 17 sites – giving satellite operators dependable access to their assets in orbit. Our Ground Segment-as-a-Service model streamlines TT&C and payload data delivery via a single API, smart pass scheduling software, and global coverage. Since 2014, we've supported over 120 satellites from our offices in Italy and the U.S.



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# NOVAC



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Novac is an innovative Italian start-up founded in 2020 in Modena, in the heart of the Motor Valley. The company designs and develops advanced supercapacitors based on proprietary materials, optimised for high power density, safety and efficiency.

Thanks to their shapeable and customisable format, Novac's supercapacitors can be embedded directly into structural components, enabling seamless integration in space- and weight-constrained environments. This makes them particularly suitable for demanding applications in sectors such as automotive, aerospace and maritime.

Novac's solutions extend the lifespan of energy systems, improve overall performance and support more sustainable and compact designs. Backed by a multidisciplinary team and a strong intellectual property portfolio, Novac aims to redefine energy storage for the next generation of mobility and high-performance systems.



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# NPC SPACEMIND

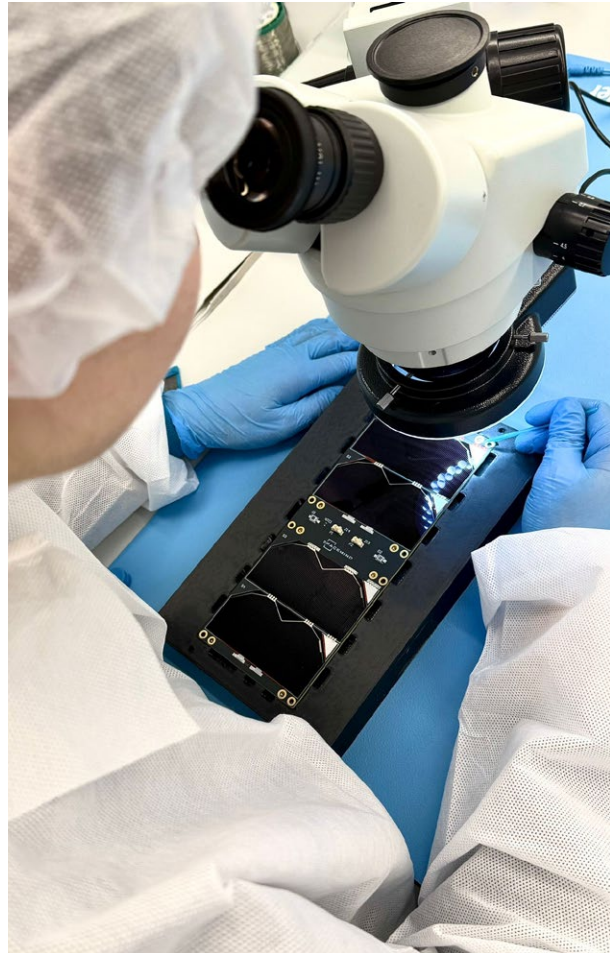
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NPC SPACEMIND provides cutting edge solutions for CubeSat missions, combining innovation with precision engineering. As the aerospace division of N.P.C. New Production Concept S.r.l., we design, manufacture, and integrate CubeSat platforms up to 16U, high-performance deployers, and advanced subsystems. ensuring flexibility, rapid turnaround, and mission-critical reliability.





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# NURJANA TECHNOLOGIES



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Born from extensive experience in defense and aerospace, NurjanaTech develops high-performance technologies tailored to the complex demands of modern space operations. This expertise has led to the creation of a series of specialized products that address key challenges in the space domain.

SPADAS is a 24/7 space domain awareness platform that combines public and private orbital data to deliver real-time, high-confidence intelligence to both commercial and defense users.

NEBULA is an edge AI solution using neuromorphic processors and advanced optical sensors, such as event-based cameras, to track small, fast and low-visibility space objects with exceptional efficiency, even in harsh conditions.

ASTROTWIN is an advanced scheduling and decision-support tool built around a customizable digital twin. It enables satellite operators, especially for CubeSat missions, to simulate and optimize in-orbit maneuvers

using real-time data. Developed for tracking operations using optical systems, AstroTwin enhances space safety, improves situational awareness, extends mission life, and reduces operational costs.

Each product reflects NurjanaTech's focus on innovation, autonomy, and mission effectiveness across the space sector.



# PIEMONTE - ITALY



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🌐 [www.centroestero.org](http://www.centroestero.org)

In Piemonte-Italy, the aerospace sector is a productive and scientific excellence, confirming the regional vocation for technological innovation and offering a competitive ecosystem for growth. Piemonte boasts a complete pipeline of skills and qualifications, high-level manufacturing, processes and service companies, cooperation with universities and the R&D network, unique

products, engineering know-how, educational & training system and a complete supply chain. The participation in the International Astronautical Congress is organized by Piemonte Agency within the Integrated Supply Chain Project "Aerospace", promoted by Regione Piemonte and co-funded by the ERDF 2021-2027. The project offers a privileged channel to meet and develop business with a selection of top aerospace companies based in Piemonte. The project's Team assistance is supply-chain focused and completely free of charge for international players. It ascertains the outsourcing needs and arranges b2b meetings according to the technical requirements with the most suitable partners, in Piemonte or on one's premises.



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# PLANETEK ITALIA



Via Massaua, 12  
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☎ +39 0809644200

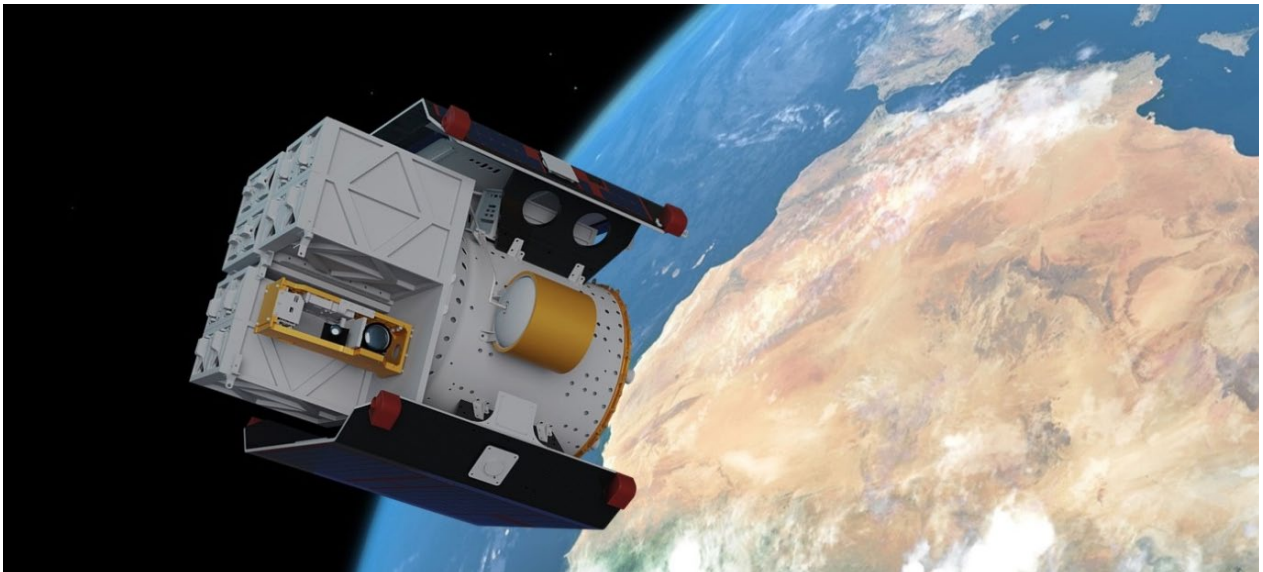
✉ info@planetek.it

🌐 <https://www.planetek.it/>

Planetek Italia is a Benefit Company part of the D-Orbit Group specializing in Geoinformatics, Space solutions, and Earth Observation.

Since 1994, we simplify the complexity of space. From upstream to downstream, we design and develop solutions that exploit the value of geospatial data through all phases of the data life cycle, to help users understand the world better and act sustainably in many application areas, ranging from environmental and land monitoring to engineering and smart cities, defense and security, and Space exploration.

We are a Diamond Dealer of Hexagon Geospatial software and a data provider of satellite images.





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✉ sales@t4innovation.com

🌐 <https://www.t4innovation.com/>

T4i is an Italian established rocket company born in 2014. T4i's aim is to revolutionize the in-space and access-to-space transportation, developing innovative engines able to open unexplored forms of mobility to small satellite platforms and unlimited windows to access space. T4i develops complete space products and customized propulsion solutions based on customer's requirements up to TRL9, focusing on electrical, chemical, and cold gas propulsion systems to cover several in-space applications for small satellite platforms (e.g., proximity maneuvers, orbit raising, decommissioning, station keeping, and relative satellite position maintenance) and chemical propulsion systems for micro-launchers and sounding rockets applications.





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# TYVAK INTERNATIONAL



Via Orvieto, 19  
10149 Torino, Italy

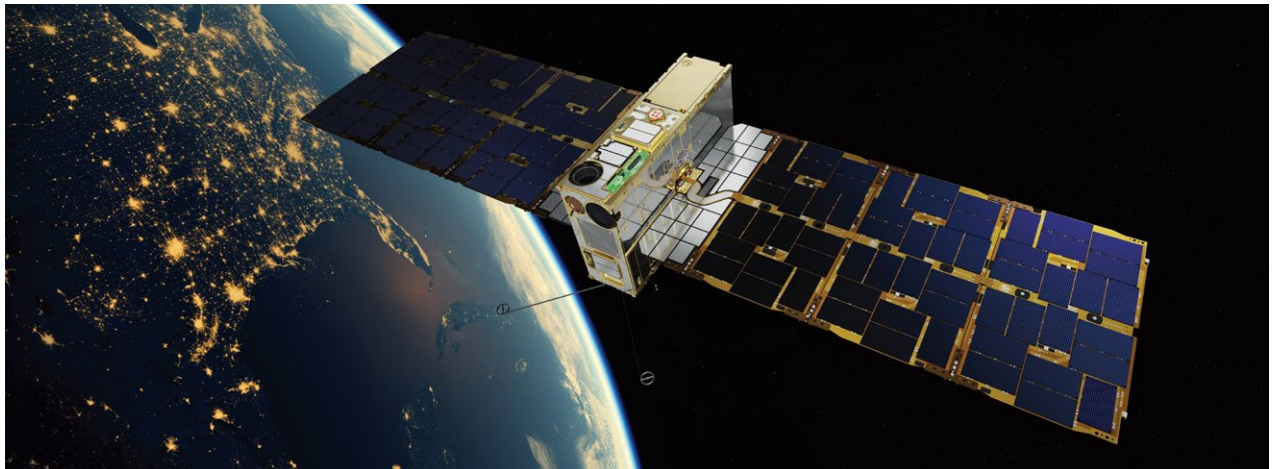
☎ +39 01119116070

✉ [info@tyvak.eu](mailto:info@tyvak.eu)

🌐 [www.tyvak.eu](http://www.tyvak.eu)

Tyvak is transforming access to space by providing end-to-end, cost-effective space systems through agile aerospace processes and by accelerating on-orbit success. The company specialises in spacecraft development, launch services and on-orbit operations to deliver small satellites

for critical missions across a variety of applications in LEO, GEO and beyond Earth orbit. The company leverages years of experience of its corporate principals in space vehicle development and related services, with a team skilled in all areas of the space business, from CubeSats to large government programmes. Its goal is to provide advanced small-satellite products and services to support strategic, scientific, commercial and operationally relevant missions. Tyvak's technical team is one of the most experienced small satellite groups in the industry, with unique expertise and capabilities in the development of nanosatellite missions and advanced technologies.





# OpportunItaly

Driving business growth with Italian excellence.

OpportunItaly is a business acceleration programme promoted by ITA – the Italian Trade Agency – and the Ministry of Foreign Affairs and International Cooperation. It is designed to foster commercial connections between international buyers, distributors, entrepreneurs, and Italian companies through digital business matching services and content focused on the strategic sectors of Made in Italy.

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OpportunItaly Buyers Club is reserved for businesses that want to build real value through Made in Italy, thanks to high-quality relationships, exclusive content and customised support.





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## *Fast Track:*

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Access ITA business matching tools directly at [opportunita.gov.it](https://opportunita.gov.it).



## *Market news updates:*

Stay informed with essential news and insights, carefully curated for your sectors of interest.



Discover the complete business acceleration programme at [opportunita.gov.it](https://opportunita.gov.it)

# NOTES

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