



New Horizons for your Business



AEROSPACE



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© Avio Aero



© Leonardo - Eurofighter Typhoon - Alessandro Maggia



LOGISTICS
PLATFORMS



EUROPEAN RAILWAY
CORRIDORS



ROAD LINKS



TORINO AIRPORT
(30 MINS FROM CITY
CENTER)



CUNEO AIRPORT
(1H FROM TORINO)

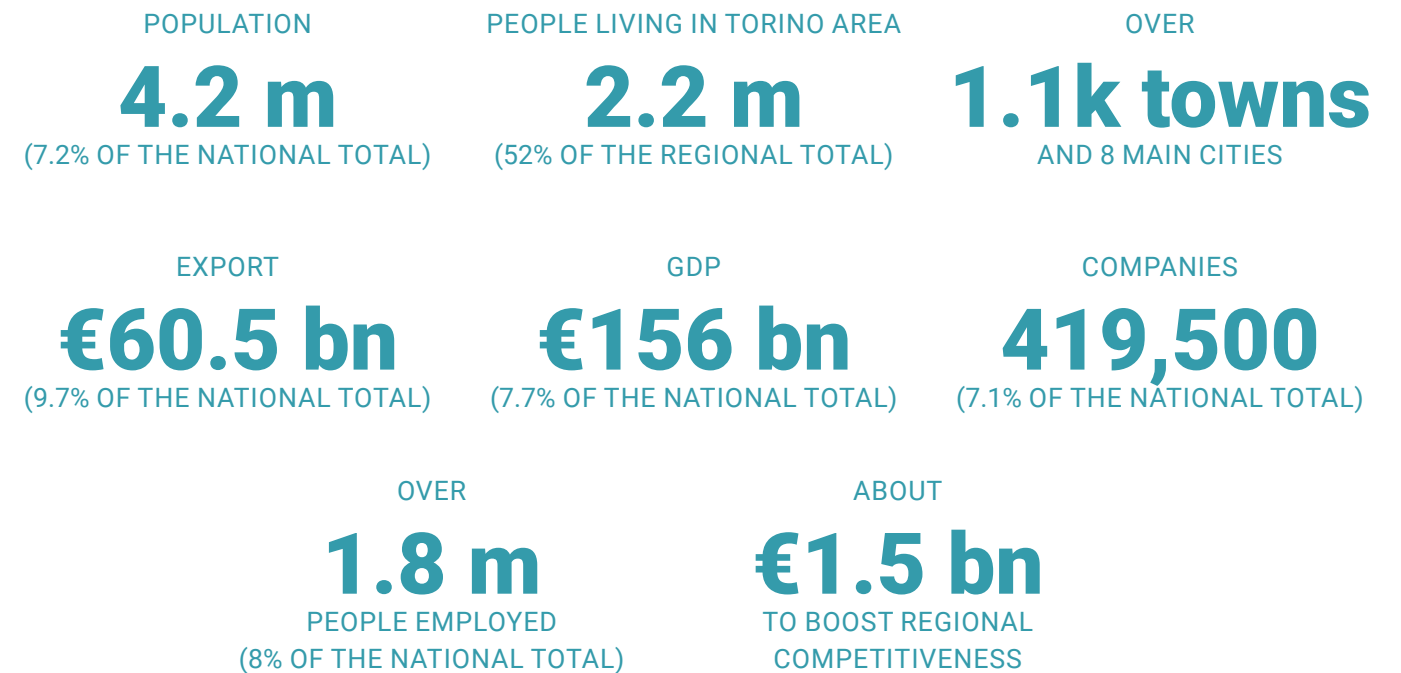


MILANO MALPENSA
AIRPORT
(1H FROM TORINO)

European and global gateway

Piemonte is strategically positioned at the heart of the European development system, right at the crossroads of the main routes between the North-South, East-West. As part of the European Union, companies located in Piemonte have duty free access to more than 30 national markets within the European Economic Area and to the world's richest consumer market of 500 million people, over 330 million of whom sharing the same currency.

Italy is Europe's 2nd largest manufacturer and for the past 30 years has always ranked in the World's Top 10 Manufacturers. Piemonte has strongly contributed to this success, demonstrating to be one of the manufacturing engines of Europe. It produces about 8% of Italy's national wealth and its production system has reached high levels of excellence and tertiary sector expansion. Piemonte is a promising and competitive business area: the region is as dynamic in industry as in services, with a skilled, flexible and versatile workforce.



AN ECOSYSTEM FOR GROWTH

4

Universities

University of Torino

www.unito.it

Politecnico di Torino

www.polito.it

University of Eastern Piemonte

www.uniupo.it

University of Gastronomic Sciences

www.unisg.it

2

Business
Incubators

2i3t

www.2i3t.it

I3P

www.i3p.it

7

Innovation
Clusters

Polo AGRIFOOD — Agrifood - www.poloagrifood.it

BioPmed — Life Sciences and Health - www.biopmed.eu

CGreen — Green Chemistry and New Materials - www.cgreen.it

CLEVER — Energy and Clean Technologies - www.poloclever.it

MESAP — Smart Products and Manufacturing - www.mesap.it

Pointex — Textile - www.pointex.eu

Polo ICT — Information Communication Technologies - www.poloinnovazioneict.org

200

private and public R&D centers,
3 Science & Technology Parks

2nd

Italian region
for propensity to innovation

2nd

Italian region
for private investment in R&D

The **Smart Specialisation Strategy** is the strong innovation policy that Piemonte developed year by year following its long industrial tradition. The last update of the program has been recently released and contains objectives and projects referred to the period 2021-2027. Its primary goal is to strengthen the R&D system as one of the main pillars for fostering entrepreneurial explorations in the most promising sectors. The Strategy aims to transform the traditional industrial sectors through the discovery of new and emerging sectors supporting ideas, products, services and models, to provide new answers to social needs. **The subsidy system in Piemonte** focuses on both the startup of new

initiatives and on the development of existing companies. The subsidies, which can take the form of soft loans, non-repayable or free-of-charge grants, guarantee support to companies based on European regulations governing public aid and vary according to the type of beneficiary, investment and nature of expenses. **The innovation system is one of the richest and most effective among the European developed regions**, with strong assets in terms of research and innovation facilities and competences. **The broad range of official sources and subsidised tools allows Italian and foreign businesses to cover various stages of growth and development.**

National funding for aerospace innovation

Italy has allocated funds to foster knowledge transfer, digital transition of manufacturing processes and investments in terms of intangible assets as evolution of the previous program *Industria 4.0*. Thanks to the PNRR (the *National Recovery and Resilience Plan*), Italy is planning to directly **invest € 1.49 billion** in the Space sector to boost the green and digital transition and to develop a brand new infrastructure that will include both upstream and downstream services. **Further € 800 million** will be financed through the *Piano Complementare*.

Specific focus will be on four main projects: **Satcom, Earth Observation, Space Factory, In Orbit Economy**. New funds will also be guaranteed for R&D activities related to the Space sector and new technologies.

Did you know?

Piemonte is the **1st Italian region** to have created a dedicated financial tool for attracting and financing foreign companies willing to locate in Piemonte: the **Regional Settlement Contract**. Since 2007, this tool has been providing Large Enterprises setting up a new company or branch with non-repayable grants up to 30% of expenses on R&D projects and on personnel costs.

INCENTIVES FOR INVESTING COMPANIES

Piemonte offers a **wide range of financial tools** to support the activity and the development of **foreign companies in the region**.

The subsidies, which can take the form of **soft loans or non-repayable grants**, vary according to the type of beneficiary, project and expenses.

Specific incentives are dedicated to support: **initial growth and development, R&D, digitalization and innovation, investment attraction, energy saving and environment**.

€1.5 bn

European Regional Development Fund (ERDF) 2021-2027 for Piemonte, divided into 5 pillars:

1. Competitiveness and Digital Transition (55,9%)
2. Green Transition and Resilience (30,16%)
3. Cohesion and Territorial Development (9,72%)
4. Sustainable Urban Mobility (2,77%)
5. Skills Development Infrastructure (1,39%)

Competent Authority: **Finpiemonte**

Finpiemonte is the in-house financial agency of Regione Piemonte, mandated to support the competitiveness of the regional ecosystem. Finpiemonte's core activity is the **set up** and the **management of funding schemes and programmes** as well as the management of strategic projects in support of **regional innovation and economic development**.

Key Regional Incentives

SETTLEMENT CONTRACT Dedicated to Large Enterprises (also in collaboration with SMEs)

Goal	The incentive aim to encourage the establishment or expansion of investments in Piemonte, through the creation of new facilities or the enlargement of existing ones , including production plants, research centers , and service hubs , with the goal of generating new qualified employment both directly and indirectly.
Incentive	Non-repayable grants

ATTRACTION AND STRENGTHENING INVESTMENT Dedicated to Small and Medium Enterprises (SMEs)

Goal	The incentive aims to boost investments in Piemonte by promoting job growth proportional to business size. It targets companies that are not yet active in the region or seeking to relocate, and existing businesses with new and distinct investments , encouraging the redevelopment of abandoned industrial sites.
Incentive	Mix of subsidised loans and grants

SWIch Dedicated to Small and Medium Enterprises (SMEs) and innovative startups

Goal	The incentives aims to support industrial research activities, experimental development, and innovation , as well as the transition of the related results to the industrial and/or commercial startup phases.
Incentive	Non-repayable grants

Contact investment@centroestero.org to receive more information about the Regional and National Incentives



Piemonte: a crossroad of international business events

Aerospace & Defense Meetings is the one and only business convention organised in Italy that since 2008 gathers in Torino the global professional aerospace community. A&DMs Torino connects OEMs and their Tier 1 & 2 suppliers with manufacturers and service providers through a series of individually tailored one-to-one meetings, and features a full program of conference sessions exploring key challenges and opportunities.

Torino is also the seat of **VTM – Vehicle & Transportation Innovation Meetings**, the only matchmaking event for the future mobility organised in Italy, held in Torino since 2018.

Heritage, technology, innovation and specialisation

Piemonte is one of the Italian regions with **the highest concentration of aerospace companies**. The region offers a complete pipeline of skills and qualifications, high-level manufacturing, processes and service companies, cooperation with Universities and the R&D network, unique products and engineering know-how, educational & training system and an organised supply chain.

In Piemonte, the aerospace sector is one of the productive and scientific excellences, confirming the regional vocation for **technological innovation**. Moreover, the **technical-productive specialisation** of the companies, both in manufacturing and technical services, makes the local aerospace sector highly competitive on international markets. Alongside, the region boasts a distinctive **learning and academic environment** that contributes to the training and growth of technical and managerial capabilities of **qualified human resources** appreciated all over the world.

The Piemonte aerospace scenario is further enriched by the presence of the Piedmont Aerospace Cluster and by the heart of Italy's Space industry: Thales Alenia Space Exploration and Science Division and ALTEC (the Thales Alenia Space and Italian Space Agency owned engineering and logistics ground support centre).



Did you know?

Piemonte played and still plays a key role in many international programmes: Large Civil transport Aircraft (Boeing 777 and 787 Dreamliner, Airbus A321, 500/600 and A320 NEO, A330, A350); Business Jet (Dassault Falcon 2000 and 6x Business Jet, EX, MJR, Learjet45; Global 7000/8000); Multirole Combat Fighters (Eurofighter Typhoon, F-35, GCAP); Military Advanced Training Aircraft (M-346, M-345); Remotely Piloted Aircraft System (Neuron, European MALE); Advanced propulsion systems (Leap; GE9x, GE90, GE9x, Catalyst, T700/CT7); Tactical Airlifters (C-27J, A400M, ATR Special Missions); Rotary Wing aircraft (AW149, NH90; AW169, EM 101; AW249).

A leading global hub for aerospace

over

450
SMEs

over

35,000
employees

over

€ 8 bn
turnover

Source: 2023 analysis by Piemonte Agency and Piedmont Aerospace Cluster on 2022 figures.

International key players

ALTEC, Avio Aero, Leonardo, Mecaer Aviation Group, Safran, Thales Alenia Space

Heritage, technology innovation and specialisation are key features of the Piemonte complete aerospace supply chain:

- Aircraft manufacturing
- Aerospace propulsion
- Advanced materials
- Space systems
- Satellites
- UAV/UAS/OPV
- Actuation systems
- Interiors
- Electrical, electronic systems
- Avionics
- Design and analysis
- Engineering
- Prototyping
- Test and control equipment
- Special processes
- MRO



The **Piedmont Aerospace Cluster** is an integrated system of companies, universities, and research centres with technological capabilities and cutting-edge scientific skills. Public entities and trade associations ensure effective coordination of support and promotion policies for the cluster. Since 2005, Piedmont Aerospace Cluster has involved all relevant stakeholders with the aim of enhancing the competitiveness of Piemonte's aerospace industry. So far, the Cluster has gathered 127 members including: public authorities, universities and research centres, trade associations and above all enterprises, both local SMEs and large globally operating companies with a significant presence in Piemonte, such as ALTEC, Avio Aero, Leonardo, Mecaer Aviation Group, Safran and Thales Alenia Space. Sustainability and green aviation, cybersecurity, Space economy, advanced & urban air mobility, Industry 5.0, and Artificial Intelligence: these are some of the topics that represent the challenges which large companies and SMEs in Piemonte know they will face in the years to come. Collaboration leads to envisioning the future product and stimulating the supply chain to be part of these processes, where all players in the value chain must bring their contributions in order to foster the introduction of new technologies for the future and stimulate economic development.

Aerospace know-how and vision

The Piemonte aerospace supply chain is a complete one and offers leading edge technological and business solutions to international key players providing **capable suppliers** ready to deliver high-quality parts on cost and on time; technologically qualified clusters sharing commercial objectives, target clients and strategies; technical working groups where local and foreign companies work together to develop projects aligned to the clients' expectations.

The presence of the **international key players ALTEC, Avio Aero, Leonardo, Mecaer Aviation Group, Safran, Thales Alenia Space** represents a substantial base for the growth of producers of complex subsystems, system suppliers of high-precision parts and components, suppliers of specialised works and equipment whose technological and production processes are compliant with the technical standards.

Many of them work in different industrial sectors such as automotive or mechatronics: their **cross-sectorial contribution** in terms of experience, technological know-how and technical production capability is an outstanding advantage when dealing with Piemonte suppliers.

Piemonte technological trends for the future of aerospace

- Additive manufacturing technologies
- Advanced materials
- Low emission aeroengines
- Advanced Space robotics
- Manufacturing and technologies for Space habitation
- Innovative and reusable launchers
- Space AI
- Space services

Piemonte is the place where the development of **additive manufacturing** is particularly forward-thinking: the region is home to international leading equipment producers like **Prima Industrie** and **Renishaw** that are very active in the production of additive manufacturing machinery and new technologies.

As far as the aerospace industry is concerned, Piemonte top class companies and big players like **Avio Aero** and **Politecnico di Torino** are committed to the making of hi-tech aerospace, energy and racing components using the additive manufacturing process.

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© Politecnico di Torino

Città dell'Aerospazio

Piemonte will host **the largest Italian aerospace production and R&D center**: it is the **Città dell'Aerospazio** (City of Aerospace) in Torino, a project signed by Leonardo and Politecnico di Torino and supported by Regione Piemonte (Regional Government) and other national and regional institutions. When completed, Torino will be home to the leading Italian aerospace production center with **laboratories, an incubator for start-ups and SMEs** that will transform over 200,000 square meters into an **international research and development center for hybrid and electric propulsion, human-machine interface and in the development of Artificial Intelligence**.

ESA Business Incubation Center Turin

The European Space Agency chose Torino as the headquarter of a center to support the birth of Italian startups in the aerospace sector: the **ESA Business Incubation Center Turin**. The center supports the **technological and business development of new innovative companies** also applied to other areas such as environmental monitoring, mobility and precision agriculture.

The center is the **connection between entrepreneurial projects and the rest of the ecosystem**, the national and international supply chain and research centers and counts on the **support of key players** as Leonardo, Thales Alenia Space, ALTEC, Avio Aero and Argotec.

The I3P Incubator manages the entire incubation program, while Politecnico di Torino and Links Foundation provide technological support. Regione Piemonte delivers funds, the Torino Chamber of Commerce gives financial support for management activities and the Compagnia di San Paolo finances a multi-year contribution to cover the operative expenses of the Esa Bic program and investment tools to encourage the technological development and growth phase of future startups. Financial operators active in different stages of startup development also provide investment opportunities, from seed money to assets for further growth and internationalization.



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The Competence Industry Manufacturing 4.0

The Competence Industry Manufacturing 4.0 (CIM.4.0) develops and delivers innovative "pilot lines" for different manufacturing technologies, specifically in the areas of additive manufacturing, robotics, new materials, Big Data, Internet of Things, cybersecurity and efficiency in processes.

This is a **highly competitive and attractive intelligent manufacturing center** where Italian and foreign companies can find a unique technological offer and specialized personnel in the latest production methods.

✓ Did you know?

Piemonte, and particularly Torino, thanks to its companies, **stands as a leader in Italy and worldwide in the field of Space**. One of the major international players in the domain of exploration and science is Thales Alenia Space. Over the past 40 years of experience, it has provided several contributions to the International Space Station and to scientific missions, including Euclid, Bepi-Colombo and Space Rider. Its latest endeavors are connected to the Artemis program that aims to establish a permanent presence of humanity on the Moon, also supporting the Italian Space Agency (ASI) for the development of 16 lunar project concepts including the construction of housing facilities for astronauts.

Piemonte is also home to noteworthy Space accomplishments, such as the Argomoon microsatellite and the Deep-Space microsatellite LICIACUBE, both created by Argotec for NASA's asteroid deflection mission.

© Thales Alenia Space

The Space ecosystem in Piemonte

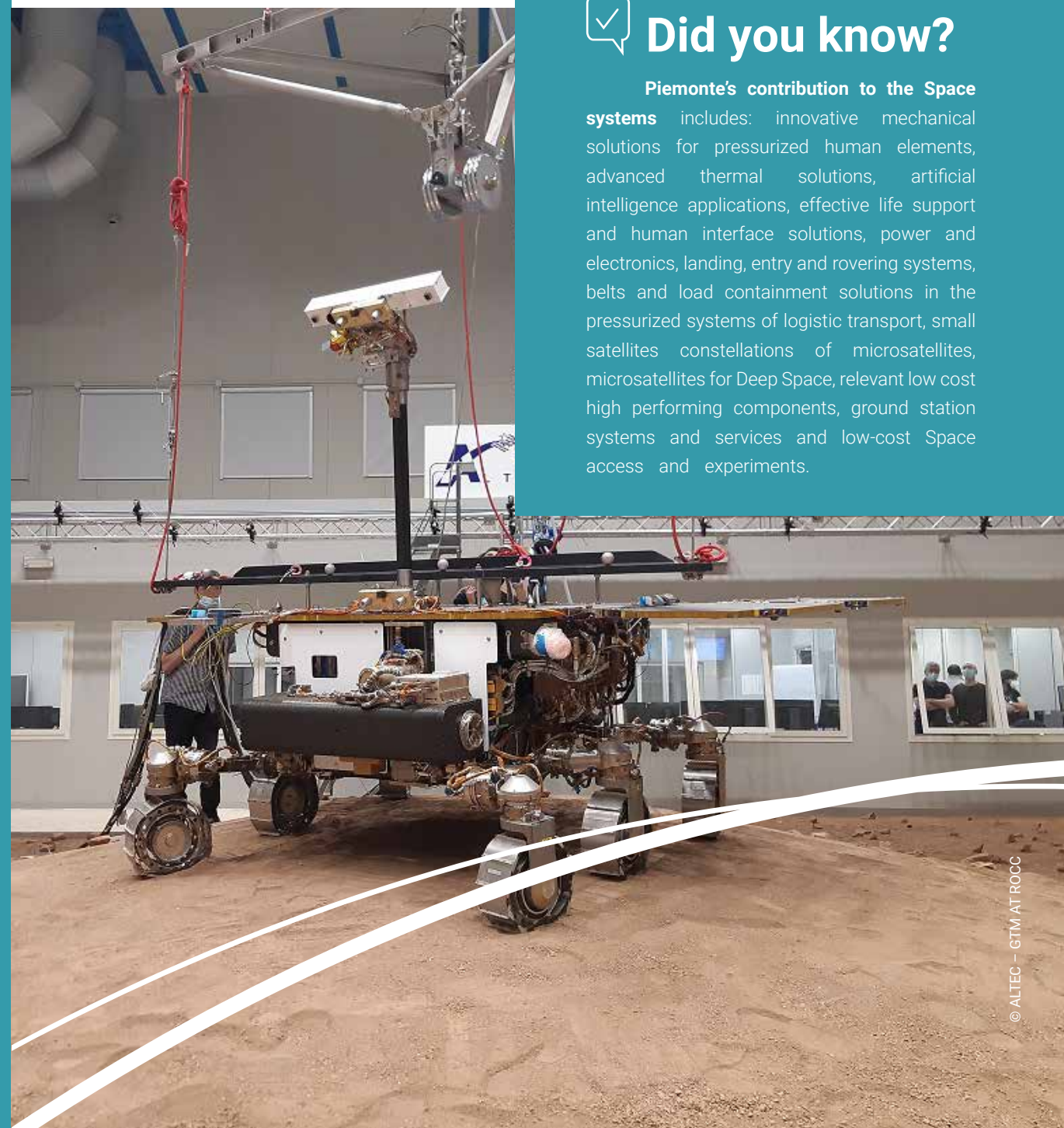
Piemonte is at the forefront of technology development for Moon, Mars and Deep Space exploration. At Thales Alenia Space's Torino site, in collaboration with Piemonte's uniquely skilled supply chain of innovative SME's, over 50% of the habitable modules for the International Space Station have been manufactured, including the pressurized commercial transport systems **Cygnus/PCM**. In the frame of the Integrated Logistics Support provided to ESA elements on ISS, ALTEC (Aerospace Logistics Technology Engineering Company, a joint venture between Thales Alenia Space (63.75%) and ASI (36.25%)) operates from Torino as Ground Logistics Center and is responsible for logistics, engineering support, inventory of onground and onorbit assets, launch packaging preparation and execution, ground logistics support and transportation, spare management and warehousing.

Thales Alenia Space will also provide the first three pressurized modules for **Axiom Space Station**, the world's first commercial Space station: these two elements will initially be docked to the International Space Station (ISS), marking the birth of the new Axiom Station segment.

Piemonte has a leading role in the development of the **Lunar Gateway**, a project currently under discussion and supported by NASA, ESA, JAXA, CSA and MBRSC. The region will play a crucial role in the Artemis mission, that will mark the return of the astronauts to the Moon. Thales Alenia Space, under a contract with the European Space Agency (ESA), is providing key technologies for the **Orion spacecraft** through the European Service Module (ESM). In the Torino premises, the company is set to leverage its expertise to create the **Lunar I-Hab** (International Habitat) module, a pressurized component of the Lunar Gateway designed for habitability and vital crew support. In addition, it has designed, produced and delivered in April the primary structure of the Northrop Grumman **HALO** (Habitation and Logistics Outpost) and it will also be involved in the ESA project **ESPRIT** (European System Providing Refueling, Infrastructure, and Telecommunications), which includes a pressurized tunnel with large windows offering a 360° view. At the beginning of this year, Thales Alenia Space, has been selected by the Mohammed Bin Rashid Space Centre (MBRSC) to design and develop the **AIRLOCK** module.

FOCUS ON
SPACE ECOSYSTEM AND LUNAR ECONOMY

FOCUS ON
SPACE ECOSYSTEM AND LUNAR ECONOMY



✓ Did you know?

Piemonte's contribution to the Space systems includes: innovative mechanical solutions for pressurized human elements, advanced thermal solutions, artificial intelligence applications, effective life support and human interface solutions, power and electronics, landing, entry and roving systems, belts and load containment solutions in the pressurized systems of logistic transport, small satellites constellations of microsatellites, microsatellites for Deep Space, relevant low cost high performing components, ground station systems and services and low-cost Space access and experiments.

© ALTEC - GTM/ATROCC

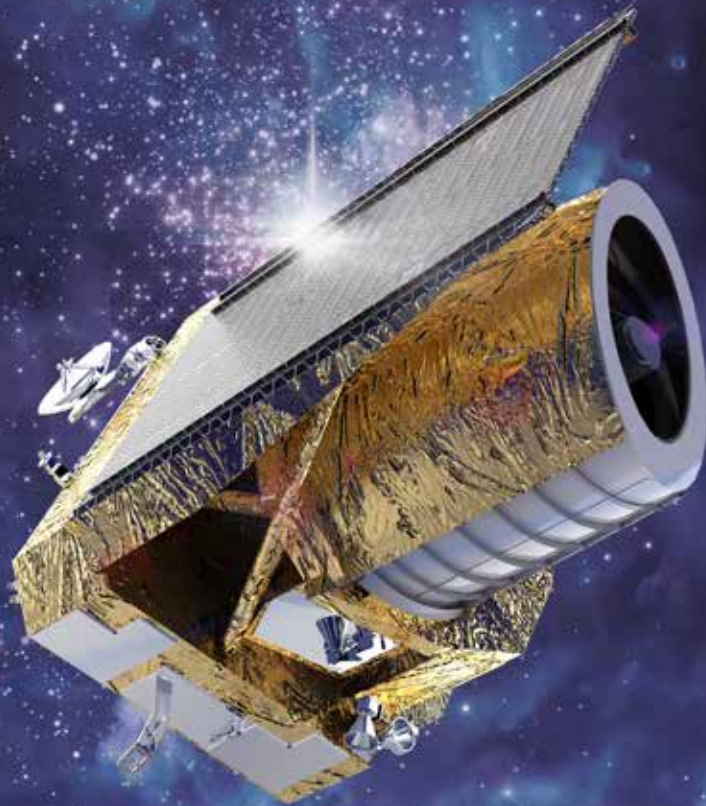
Euclid Mission: Piemonte's new challenge

The Euclid mission, launched from Cape Canaveral on July 1st, 2023, is a groundbreaking project led by the European Space Agency (ESA) with the primary objective of unraveling the mysteries of dark energy and dark matter, two enigmatic and pervasive components of the universe.

Several Italian companies have played significant roles in this mission, with **Thales Alenia Space in Torino as the prime contractor of the mission**, providing vital contributions to its success, from the development and construction of the spacecraft's service module to leading the industrial team of more than 80 highly specialized companies and 140 subcontractors from 20 European countries.

Leonardo's important technological contribution to the mission was funded and coordinated by the Italian Space Agency (ASI). To enable such distant galaxies to be observed, cold gas micro thrusters and a Fine Guidance Sensor (FGS) - the hyper-technological and ultra-precise equivalent of a sextant that can calculate where the Euclid telescope needs to be pointed with an accuracy never before reached by a European satellite - were produced. Leonardo has also supplied the photovoltaic panels that will power the satellite's systems, while Thales Alenia Space provided a high-gain K-band antenna, a foldable and steerable instrument for collecting and amplifying satellite signals.

Finally, **ALTEC is responsible**, under the ASI contract, **for the industrial activities related to the design and construction of the Italian Scientific Data Center (SDC-IT-PROD)**.



FOCUS ON
SPACE ECOSYSTEM AND LUNAR ECONOMY

FOCUS ON
NEW SPACE ECONOMY: CHALLENGES AND OPPORTUNITIES

New Space Economy

From Space commercialization to new satellite applications, Piemonte is at the forefront of the New Space Economy. Large international players, technological companies and a propensity for innovation and hybridization are the characteristics that have contributed to making Piemonte an ideal region for the development of the New Space Economy.

A fundamental role in the race to the new commercial era will be played by Piemonte: an agreement is in place with ESA to allow ALTEC to place contracts with the new commercial missions' providers to deliver the training service to Private Astronauts. Moreover, ALTEC is leveraging on its experience on the ISS to offer end-to-end services to potential users to future commercial platforms: from science to made-in-space, payload is developed, integrated and safely operated.

The rise of the cubesat, **small and light satellites** will help stimulate competition, making the **commercial Space sector more accessible**. The Politecnico di Torino is among the universities that first developed this technology facilitating frequent and affordable access to Space. In this field, Piemonte's companies can design, build and operate complete satellites, also providing innovative miniaturized and low-cost equipment.

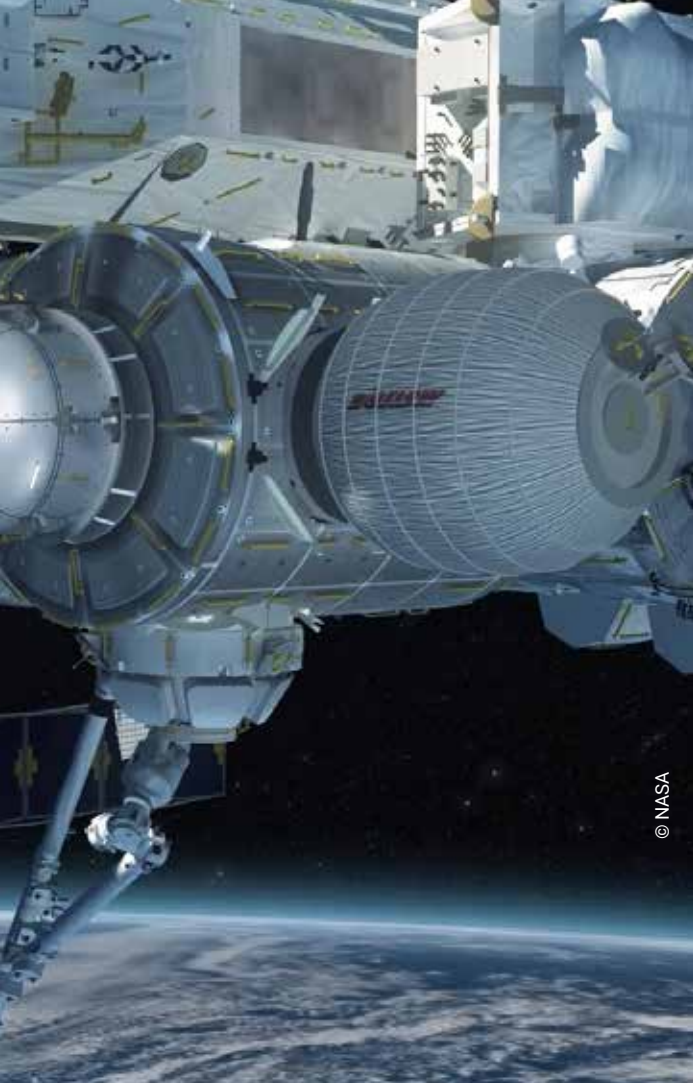


© ALTEC - Multi Mission Control Centre

Success case

KURS ORBITAL a startup founded in Ukraine and since 2022 based in Torino, was **one of the first companies selected to attend the ESA BIC Turin program** to provide a sustainable on-orbit servicing system and make Space more accessible. Leveraging on its operational experience and by virtue of groundbreaking IPs, **the company has developed ARCap**, a standard module which enables spacecrafts to autonomously perform rendezvous and docking maneuvers.





© NASA

Success case

VOYAGER TECHNOLOGIES

EUROPE, formerly known as Nanoracks Space Outpost Europe., is the European subsidiary of XO Markets Holdings Inc., a pioneer in the Space sector. Based in Torino, Voyager Technologies Europe is **the first company in the world to commercialize access to Space from the International Space Station**. Thanks to the establishment of the Torino office and the creation of a local supply chain, Voyager Technologies Europe has been able to accelerate its operations and better connect with customers in Europe and the Middle East, positioning itself as a key player in the Space landscape and actively contributing to the esteemed Piemonte ecosystem.



Success case

ECOSMIC is a startup born in The Netherlands, developing **software solutions for the space sector that moved its headquarters to Torino**. Its **System to Avoid Fatal Events (SAFE)** supports operators that want to protect their Space assets against the threat of collisions with satellites or debris, thus contributing to the **long-term sustainability of Space activities**, ensuring that the most used and valuable orbits remain accessible to humankind.



Success case

REVOLV SPACE is a Space technology startup developing and **manufacturing mechanisms and solar arrays** for small satellites. The startup is supported by the European Space Agency (ESA) through its Business Incubation Centre in Noordwijk (Netherlands) and has established a new headquarters in Torino. **The opening of the Torino office marks the beginning of an ambitious expansion project** focusing mainly on research and development of advanced mechanical systems for small satellites.



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FOCUS ON
NEW SPACE ECONOMY: CHALLENGES AND OPPORTUNITIES

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FOCUS ON
SUSTAINABILITY AND GREEN AVIATION

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Towards 2050: sustainability first

The European Commission's steering documents - Vision 2020 and Beyond Vision 2020 and Towards Vision 2050 - identify the new challenges for the aerospace sector. The ultimate goal is a **sustainable, safe, clean and silent air transport, reconciling cost effectiveness with high levels of safety and respect for the environment**. To achieve **climate neutrality in aviation in 2050**, the Commission has established two intermediate phases: first low emission aircrafts by 2030/2035, later hydrogen powered aircrafts. **Piemonte is active in many fronts connected to sustainability**, first of all the **lightness of materials**, a feature that has a significant impact on sustainability. In Piemonte **new composite materials and 3D printing** (additive manufacturing) have achieved successful results thanks to a unique know-how that allows weight reduction and an improved and less polluting performance. At the same time, thanks to the presence of Avio

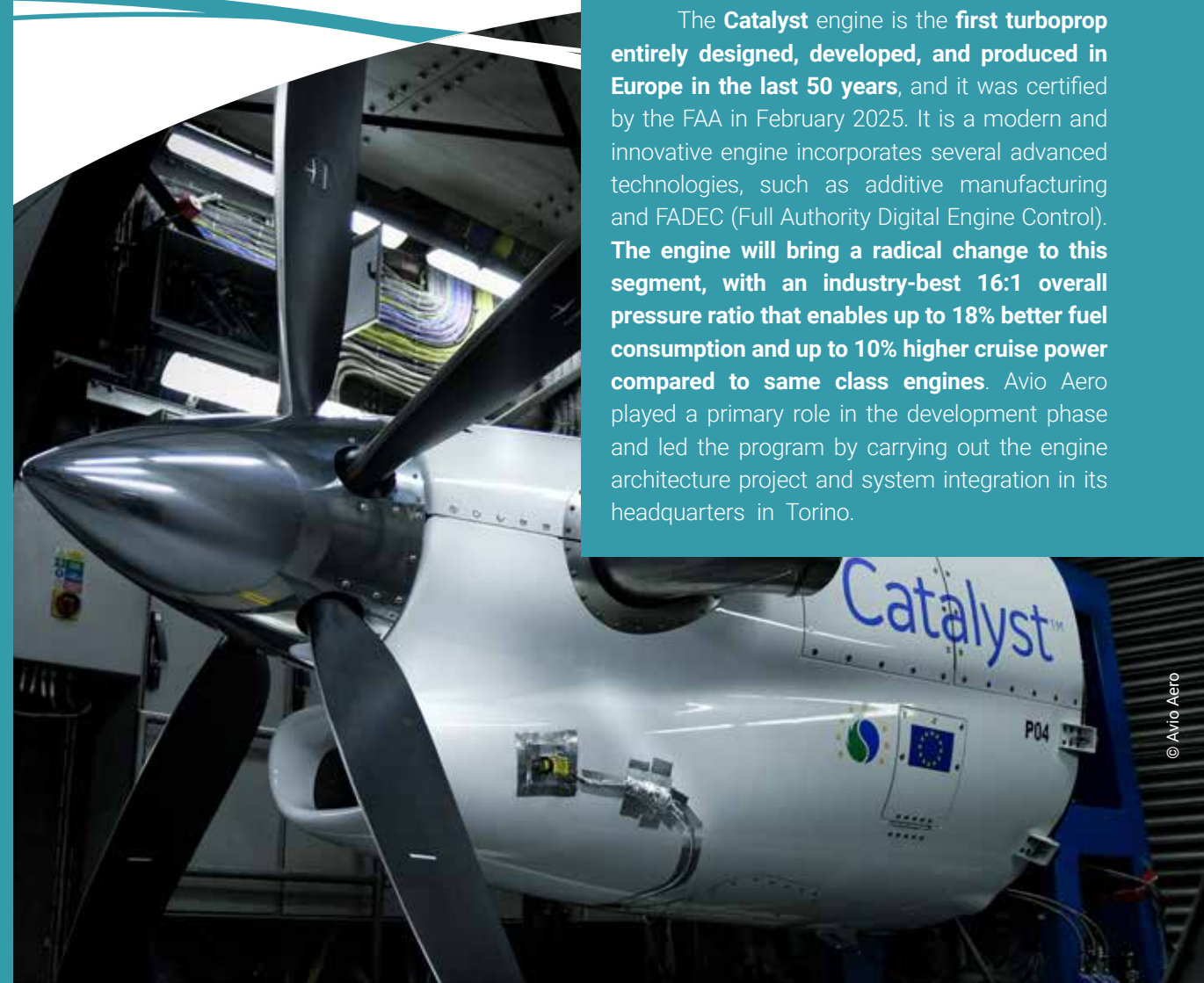
Aero and Leonardo, Piemonte plays a leading role in the **Clean Aviation Programme** and is committed to achieving the new European Green Deal goals especially in the **development of innovative propulsion systems** combining different technologies integrated in the aircraft as well as in working on **new sources of energy for aeronautical propulsion**.

Talking about electrification, the Politecnico di Torino is delivering **important results in the field of research applied to All Electric Aircraft (AEA)** which consists in powering the on-board systems using only electricity. The benefits lie in the reduction of the aircraft total weight and of the on-board systems complexity, with further positive effects in terms of reduction of fuel consumption, operating costs and environmental impact.



Did you Know?

The **Catalyst** engine is the **first turboprop entirely designed, developed, and produced in Europe in the last 50 years**, and it was certified by the FAA in February 2025. It is a modern and innovative engine incorporates several advanced technologies, such as additive manufacturing and FADEC (Full Authority Digital Engine Control). **The engine will bring a radical change to this segment, with an industry-best 16:1 overall pressure ratio that enables up to 18% better fuel consumption and up to 10% higher cruise power compared to same class engines**. Avio Aero played a primary role in the development phase and led the program by carrying out the engine architecture project and system integration in its headquarters in Torino.



© Avio Aero



Piemonte's commitment to digital transformation

In Piemonte, the key to competitiveness lays in the ability to create **integrated ecosystems** towards **innovation** applying **manufacturing digital transformation** and implementing technologies related to **Artificial Intelligence, virtual reality** and **cybersecurity**. The central role of the region in all these innovative subjects has recently led to the appointment of the city of Torino as the seat of the National Center for Artificial Intelligence.

Satellites, on-board systems, ground control systems, processing of collected images and future tourist travel in Space: they all have in common Artificial Intelligence.

The aerospace sector is at the forefront in the use of AI which already finds application in everyday life, for example in the analysis of satellite data in the field of safety, environmental control and in the prevention of natural disasters. In all these domains, the detailed images of the satellites help to understand the evolution of the disaster and even to understand how to intervene. **Piemonte is where the AI and interdisciplinarity are a competitive advantage**. Large key players such as Thales Alenia Space and a dense network of SMEs and aerospace startups, but not exclusively aerospace ones, have a leadership role that is expressed at the **highest levels of innovation**.

Success case

PLUG AND PLAY is the world's largest **Open Innovation platform**, with a well-proven record of connecting promising startups with leading corporations. Founded in 2006 in the Silicon Valley, in 2022 it has **extended its presence in Italy by opening in Torino** a new location, of which it is manager and co-investor: it is the so-called **Takeoff Accelerator** which is focused on Aerospace and Advanced Hardware. Takeoff's goal is **to attract and enhance pre-seed and seed startups in the aerospace sector**, supporting them in their growth path through a targeted acceleration program while contributing to the growth of Torino as an excellence in this field.

Success case

THE EXPLORATION COMPANY is a German **scale up for spacecraft manufacturing** that develops, manufactures and operates the Nyx Space capsule for Space Agencies and Stations and for both Space and non-Space companies. At the beginning of 2024 the company opened an engineering office as its **first Italian branch in Torino**.

FOCUS ON
AI • DATA • CYBERSECURITY: TOWARDS INDUSTRY 5.0

FOCUS ON
ADVANCED AND URBAN AIR MOBILITY

Piemonte, a living lab for urban air mobility

Piemonte is developing the new frontier of urban mobility for people and goods. Torino is increasingly confirming itself as a pole of R&D and implementation of the **new autonomous air mobility experimentation** in Italy thanks to the collaboration between industrial partners, Politecnico di Torino, SkyGate Accelerator Hub and Torino City Council's Department of Innovation, Smart City and ICT Systems which is engaged in the testing of autonomous and advanced air mobility in the field of municipal services. As a result, the Drone Unit of the City of Torino was created to provide services using drones not only for the **safety and surveillance** of public spaces, but also to manage aspects related to **environmental sustainability**. This Unit conducts tests within city parks, using multispectral chambers to carry out the mapping of phytopathology and of water supply stress of plants. Other tests include: the use of thermal chambers for energy sustainability

and for the mapping of the energy dispersion of buildings; the use of drones for the analysis of critical infrastructures to support the city's architects and engineers; the cross-verification of the satellite data with the drone data as far as environmental controls are concerned, for example with regard to the presence of asbestos and waste disposal. The Drone Unit is also working with the Chemistry Department of the University of Torino in the **new studies related to the use of hydrogen as an alternative propellant**.

Finally, Torino is the seat of the **House of Emerging Technologies** (Casa delle Tecnologie Emergenti), urban lab involving startups, companies and institutions altogether engaged in technology transfer, business development and urban innovation on emerging technologies, **particularly focusing on urban air mobility** to contribute to the future smart and intelligent cities and to the quality of life of their citizens.



Did you Know?

SKYGATE is the only Italian Accelerator Hub focusing on **supporting startups, scaleups and SMEs in their operational access to the new Urban Air Mobility market**. It is located at the Torino International Airport which features built-in EASA Navigation and Traffic Control Operations (ENAV) for enabling flexible new aerial spaces. SkyGate aims at developing **the first Italian Vertiport dedicated to the so-called e-VTOL, the electrical vehicles for the advanced aerial urban mobility**. The SkyGate vertiport offers take-off and landing areas but also, thanks to its unique expertise, infrastructural and technological capabilities. Furthermore, it supports companies that need to evaluate, test & develop their solutions and products in the field of the electrical and vertical air mobility.



Did you Know?

The **"INDOOR, usING Drones for Organ Transplantation"** project has reached a key milestone with the **successful first flight of a drone designed for organ transport in Torino**. Developed by the D.O.T. Foundation in collaboration with the Regional Transplant Center - CRT, Politecnico di Torino, and the ABzero startup, the drone completed a flight between the CTO and Molinette Hospital, marking an important step toward faster, safer, and more efficient transport of transplant materials. This breakthrough positions **Piemonte as a leader in innovative healthcare logistics, enhancing its transplant infrastructure**.



The synergy between Piemonte's major companies, SMEs, research centres and universities - in particular the **Politecnico di Torino** and **University of Torino** - has made a decisive contribution to positioning the region among the leading clusters not only in Europe, but also worldwide in the aerospace sector.



I3P

www.i3p.it

The Innovative Companies Incubator of Politecnico di Torino (I3P) supports the creation and development of innovative startups with high technological intensity and growth potential, founded either by university researchers and students or by external entrepreneurs, providing strategic consulting services, coaching, mentoring, fundraising support and workspaces. **I3P's mission is to support the ecosystem of entrepreneurship, generating economic development and employment in innovative industrial chains, also through the collaboration with private subjects and institutions.**

Politecnico di Torino decided to make a strong and multi-disciplinary commitment to research on Space-related disciplines. This is a key area for the present and future development of technologies that can have a great impact on our daily lives, with applications spanning from medical, telecommunications and studies on the impact of climate change.

The studies conducted at PoliTO are characterized by an innovative vision that considers it essential to adopt an integrated approach to the various segments of the Space economy as fundamental, from the upstream – creation of Space infrastructures, satellites, launchers and Space stations – to the downstream – benefits arising from the data collected in Space, data then transformed and used in various areas including, to name the main ones, earth observation, satellite communication and satellite navigation.

PoliTO also promotes – alongside Regione Piemonte and other public and private stakeholders - the development of the **Città dell'Aerospazio** (City of Aerospace) project in Torino, **an innovative ecosystem that combines the efforts of industry, academia and research.** Politecnico encourages the development of innovative companies in this sector with the ESA BIC Turin program, hosted at the I3P incubator, and with the presence of the Galaxia hub. Not to mention the strong involvement in large projects funded by Next Generation EU-PNRR, such as NODES-Nord Ovest Digitale e Sostenibile and MOST-Centro Nazionale per la Mobilità Sostenibile, as well as 'Space It Up!', financed by ASI (Italian Space Agency) and Italian Ministry of University and Research.

Aerospace@UniTo is the **University of Torino's** platform dedicated to advancing aerospace research. It brings together over a hundred researchers organized into nine working groups, with expertise in: Space exploration (astrophysics, celestial mechanics, and technological innovation in support of future missions), Earth observation for environmental monitoring and the reduction of natural disaster risks, Space medicine and life sciences, advanced materials for Space, Space agriculture and aerospace law.

THE COURSES

The Astrobiology course offers a multidisciplinary approach to the study of life in the universe and provides students with a broad perspective on the latest research in the field of Space Biology, involving the Italian Space Agency (ASI), Thales-Alenia Space, and the Museum and Planetarium of Space in Torino.

The Space Neurosciences course presents the most advanced basic and applied research in the field of Space neuroscience. It offers complementary and converging perspectives from the scientific fields of neurobiology, neurophysiology, and neuropsychology. The lectures are supplemented by seminars held by experts from academia or the aerospace industry.

PHD PROGRAMS

UniTo actively participates in two national PhD programs:

PhD in Space Sciences and Technologies

This program aims to train young doctoral candidates in the fields of science, engineering, technology, and international relations in Space, by developing knowledge and skills in the research areas specialized by the twenty-seven universities and research institutes participating in the program.

PhD in Earth Observation

This program trains professionals with cross-cutting and integrated skills in Earth observation, geomatics, and geoinformation, while also providing administrative and legal expertise to promote the effective use of the Copernicus program.

MASTER'S PROGRAMS

The Master in Mathematical and Physical Methods for Space Sciences and Industrial Applications is a one-year program designed to provide advanced knowledge in the Space sector, fostering interaction between academic research and industry challenges. The course offers both theoretical and applied training, enabling students to identify, integrate, and apply the most advanced methods in mathematics and physics. The master's program is supported by key public and private players operating in the aerospace sector.

RESEARCH

The platform adopts a multidisciplinary approach to various research themes, such as:

- High-energy astrophysics
- Design and characterization of innovative and sustainable materials
- Effects of geomagnetic and hypomagnetic fields and microgravity on the organism's neural responses
- Environmental applications of Earth Observation
- Design and implementation of advanced drone systems
- Vertical farming and aeroponic cultivation for indoor agriculture in Space
- Human response to Space conditions and risks
- Characterization of the physical and physico-chemical properties of extraterrestrial materials
- International law in the aerospace sector.



2i3T

www.2i3t.it

2i3T - Business Incubator of the University of Torino, certificated by Ministero dello Sviluppo Economico is a hub for businesses, research and investors. 2i3T engage all department in the University, identifies ideas that can be the subject of Technology Transfer and motivated and determined people to implement the process of enhancing the idea. It supports new start up with equipped labs and cutting edge shared facilities.

Find the **right partner** for your business

www.aerospace.centroestero.org

Aerospace is the Integrated Supply Chain Project promoted by **Regione Piemonte** (Regional Government), co-funded by the European Regional Development Fund 2021-2027 and carried out by **Piemonte Agency**, providing international players a preferential channel to meet and start business with **top class aerospace enterprises based in Piemonte**. The project develops with the local companies best practices on supply chain performance. Teaming up with international aerospace players on screening of capabilities, technological evolution and effective business models, the project Team identifies capable suppliers ready to provide high-quality products at competitive prices with on time delivery.

The Team makes an assessment of buyers' needs and technicians' requirements from all over the world and provides them with:

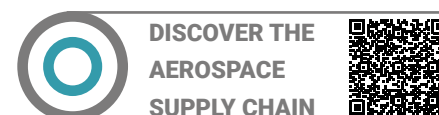
- top class skills and unique manufacturing know-how
- capable suppliers who can deliver on time high-quality parts and products at competitive prices
- technological qualified and competitive supply chains sharing commercial objectives, target clients and strategies
- technical working groups where local enterprises and foreign companies work together to develop projects aligned to the expectations of their international players.

The project Team's assistance is supply chain focused and completely **free of charge** for international players. It ascertains their outsourcing needs and arranges **b2b meetings** according to their technical requirements with the most suitable partners - in Piemonte or on their premises -, **visits to local companies** to discover the region's aerospace sector, participation in **international events** and **trade missions** to connect demand and supply.

For more information on the aerospace sector in Piemonte and its business opportunities, write to: aerospace@centroestero.org



The Integrated Supply Chain Projects are promoted by Regione Piemonte (Regional Government) and carried out by Piemonte Agency



Piemonte Agency

the entry point
to make business
& invest in Piemonte

To get to know about the local economic system, find information on **business opportunities** in the area and identify a **quality destination for direct investment**, Regione Piemonte offers an entry point: Piemonte Agency.

THE AGENCY PROVIDES A COMPLETE RANGE OF FREE SERVICES TO FOREIGN COMPANIES

- willing to locate in Piemonte
- searching for suppliers and partners in a variety of sectors
- needing technical training on foreign trade.

THE AGENCY IS A RELIABLE PARTNER THAT GUARANTEES

- responsive and tailored assistance at all stages of the investment project
- matchmaking of the regional production offer with the needs expressed by international markets
- targeted activities to connect highly qualified local companies with foreign partners
- training in the field of internationalization.

✓ Did you Know?

Piemonte is the 1st Italian region to have established a regional Agency dedicated to inward and outward investment: Piemonte Agency.

Piemonte Agency

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info@centroestero.org
www.centroestero.org



Visit Piemonte, Ph Gianni Oliva

Invest in Piemonte

Piemonte Agency guarantees complete assistance to foreign companies willing to invest in Piemonte.

On behalf of Piemonte Regional Government, Piemonte Agency can advise on every aspect of starting and running a business in Piemonte, providing **assistance at every stage of the project**. In addition, the Agency acts as a liaison office between foreign investors and public authorities, academic/research networks and industry. Piemonte Agency also works alongside foreign companies already established in Piemonte to support their growth in the territory. All services are free, personalized and confidential.

fDi Intelligence



BEST FDI STRATEGY
LARGE REGIONS
TOP 10

PIEMONTE



Services for investors

BUSINESS PLANNING

- Insights into the local and sectoral ecosystem and into the key players active in the region
- Support to identify suppliers, partners and funds

SUPPORT TO BUSINESS SET UP

- Support for the establishment of the company
- Support to recruit specialized personnel onsite with identification of related costs
- Introduction to local partners: institutions, local administrations, universities, research centers, innovation hubs, incubators, accelerators, science and technology parks, centers of excellence, foundations, etc
- Support to obtain visas, authorization and permits

INCENTIVES

Support to identify regional, national and European incentives

LOCATION OPPORTUNITIES

Support to identify areas for logistics, industrial, manufacturing, office, commercial, hospitality, student and senior house use

ORGANIZATION OF INCOMING MISSIONS TO PIEMONTE

Support to organize meetings, site visits and events in the territory

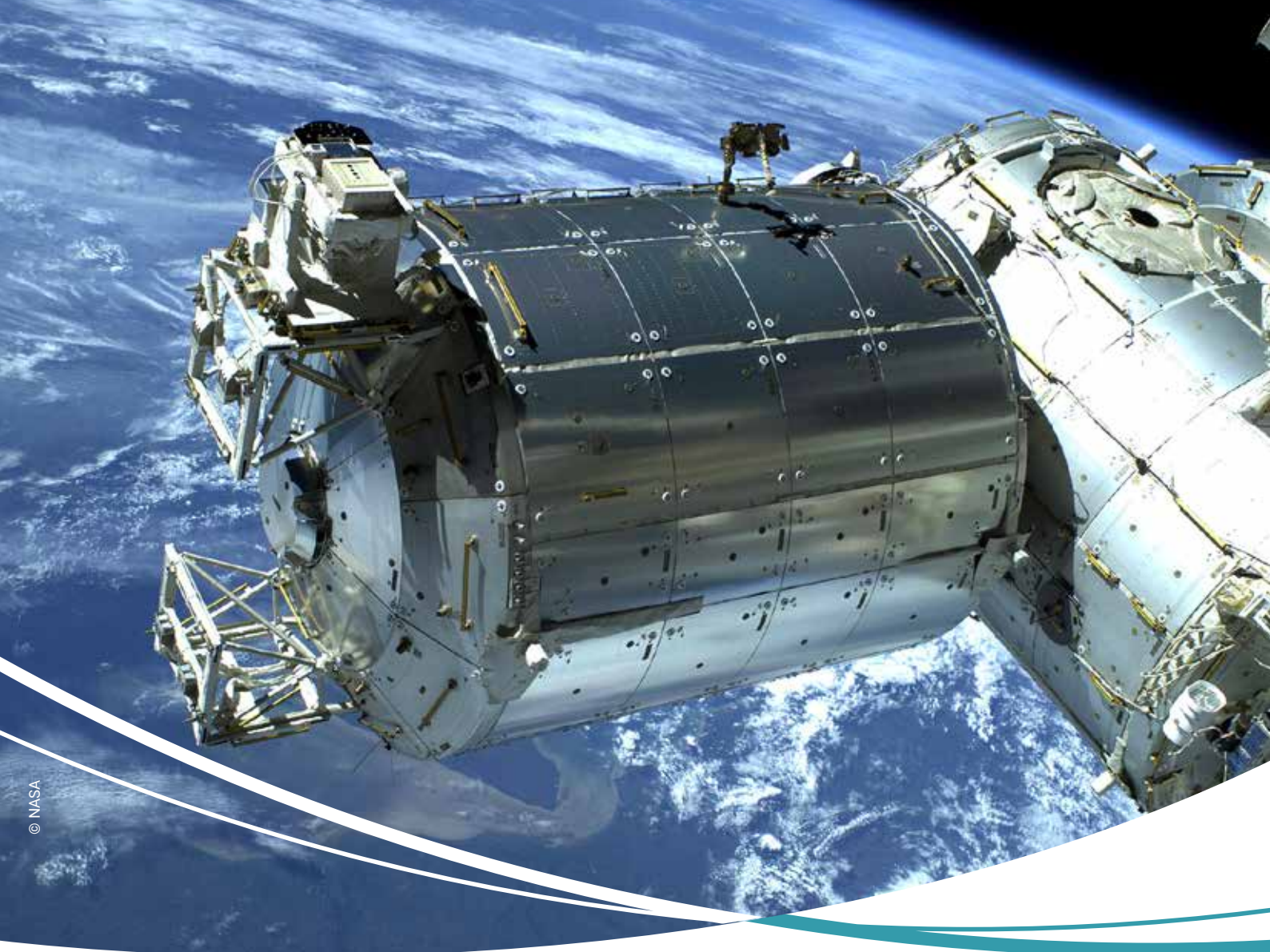
POST-INVESTMENT AFTERCARE

- Updates on the local and sectoral ecosystem and on key players active in the region
- Support to identify suppliers, partners and funds
- Support to recruit specialized personnel onsite with identification of related costs
- Introduction to local partners
- Support to obtain visas, authorization and permits
- Support to identify additional spaces for the expansion of the company in the territory
- Presentation of programs for business development abroad
- Presentation of customized training courses regarding internationalization



For more information on the aerospace sector in Piemonte and its business and investment opportunities:

aerospace@centroestero.org
investment@centroestero.org



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PIEMONTE

THE PLACE TO INVEST

www.piemontetheplacetoinvest.it



Co-funded by
the European Union



REGIONE
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The Integrated Supply Chain Projects are promoted by Regione Piemonte (Regional Government) and carried out by Piemonte Agency

