

Orbital systems
Satellites
Ground segments
Transversal competencies



Thales Alenia Space, a JV between Thales (67%) and Leonardo (33%), manufactures satellites and provides space-based technologies for telecommunications, navigation, Earth observation, environmental monitoring, exploration and science applications, as well as orbital infrastructures. Through the Space Alliance, Thales Alenia Space and Telespazio provide a complete range of solutions including services. The company operates in ten countries, with 17 facilities in Europe and an industrial plant in the United States.

COMPETENCIES & CAPABILITIES

Thales Alenia Space offers a wide range of state-of-art technologies and solutions matching all its customers' needs. Thales Alenia Space is capable of providing complex end-to-end systems, satellites, ground segments, equipment and space electronics covering the following activities: telecommunications, Earth observation, navigation, science, exploration including orbital infrastructures and space transportation systems. The company also leverages on Thales' longstanding experience to propose the highest level of cybersecurity to its customers.

Designed to bolster the company's innovation culture and to stimulate intrapreneurship, Thales Alenia Space owns an Innovation Cluster tasked with accelerating the development of innovative projects across and outside the Company.



THALES ALENIA SPACE

PRODUCTS & SERVICES

Product lines answering to telecommunications operators' needs: Spacebus 4000 B2 satellites, well suited to the needs of regional operators, Spacebus NEO solutions for very high throughput satellites, that deliver broadband connectivity worldwide, and Space Inspire solution, that is fully digital and reconfigurable in orbit. Full end-to-end system, including the satellite and ground segment. Unique technological legacy as prime contractor of 3 constellations.

Earth Observation satellites featuring high and very high resolution radar and optical payloads as well as ground segments. Top industrial partner in environmental monitoring programs. Unique legacy in constellations, navigation and Earth Observation to serve new markets linked to Space Situational Awareness, High Revisit optical observation or the Internet of Things.

Satellite navigation systems, with EGNOS and Galileo, and offers Safety of Life services used in particular for aviation and transport applications.

MAJOR SPACE PROJECTS & REFERENCES

Telecommunications constellations built under Thales Alenia Space prime contractorship: GlobalStar 2, O3B and Iridium® NEXT (125 satellites operational in orbit). Selected in 2021 to build Telesat's Lightspeed constellation including 298 LEO satellites.

Top industrial partner onboard European Copernicus environment monitoring program. In 2020, Thales Alenia Space was chosen for 5 of the 6 High Priority Copernicus Missions, 3 as prime contractor – CIMR, ROSE-L, CHIME – and will supply payloads for 2 other missions: CO2M and CRISTAL. Pioneer in space altimetry, Thales Alenia Space built all the Meteosat weather satellites under its prime contractorship.

Responsible for 1st generation Galileo Mission Segment (GMS) and Galileo Security Facility (GSF), Thales Alenia Space was ordered 6 Galileo 2nd Generation satellites in 2021. Current EGNOS system was developed under Thales Alenia Space's prime contractorship. Thales Alenia Space is one of the 2 space companies in the world to deliver certified Space-Based Augmentation Systems.

Providing half of the ISS' pressurized volume, Thales Alenia Space will deliver numerous pressurized modules for Lunar Gateway and Axiom commercial space station. Venus, Mars, Saturn, Mercury, the Sun, the Moon, deep space, asteroids and comets... Thales Alenia Space contributed to major international science and space exploration missions, including ExoMars as prime contractor.

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TURNOVER 1850 M€ (2020)

WORK FORCE 7 700 employees