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Earth from Argomoon © ASI - NASA

Eye of Euclid © ESA

Vega VV04 on launch © ESA

ASI: Space made in Italy

Research and innovation in the space sector are delivering tools and solutions to address some of the greatest challenges of our time: climate change, security, the growing need for energy and resources, and sustainable development.

From studying the cosmos to human and robotic exploration, space propulsion, satellite communications and navigation, Earth observation, planetary defence, in-orbit servicing, technology transfer, and space diplomacy, ASI's activities span the entire Italian space sector.

Thanks to its extensive network of **RELATIONSHIPS** with public and private, national and international actors, the Agency is involved in major missions and programs to expand humanity's **HORIZONS**, develop new **TECHNOLOGIES**, stimulate **GROWTH**, and ensure the **PROTECTION** of both space and our planet.



Agenzia Spaziale Italiana

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Euclid's new image of star-forming region Messier 78 © ESA

Mount Etna - COSMO-SkyMed © ASI



Agenzia Spaziale Italiana

RELATIONSHIPS
HORIZONS
TECHNOLOGIES
GROWTH
PROTECTION



ROME



MATERA



CAGLIARI



MALINDI

The Italian Space Agency

To promote, develop and disseminate space research and technology, and to implement Italy's space policy in accordance with government guidelines: this is the mission of the Italian Space Agency (ASI), a public entity founded in 1988 and now one of the world's leading space agencies.

With these objectives, ASI contributes daily to advancing our knowledge of the universe and developing innovative technologies.

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*) and Malindi in Kenya (*Luigi Broglio Space Centre*). ASI also holds shares in sector companies (Altec, e-Geos, SpaceLab) and is a member of the E. Amaldi Foundation.



RELATIONSHIPS

Space exploration is a team effort

Cooperation is essential for the success of international space missions and the development of innovations. ASI plays a leading role both at European and global level, actively collaborating with the world's major space agencies through bilateral and multi-lateral agreements.

Italy leads several programs of the European Space Agency, of which it is the third largest contributor; it participates in European navigation and Earth observation programs (Copernicus, Galileo, IRIS²) and in further programs like NAVISP, GSTP, ARTES. It is a member of COPUOS, and will chair this committee in 2026-2027.

The long-standing collaboration with NASA has allowed Italy to participate in many of the most challenging scientific missions of recent decades, the activities of the International Space Station (ISS) and the Artemis program to return humans to the Moon with the ultimate goal of reaching Mars. Thanks to its intense space diplomacy, ASI is fully involved in the space sector cooperation activities in the Italian government's *Mattei Plan for Africa*.

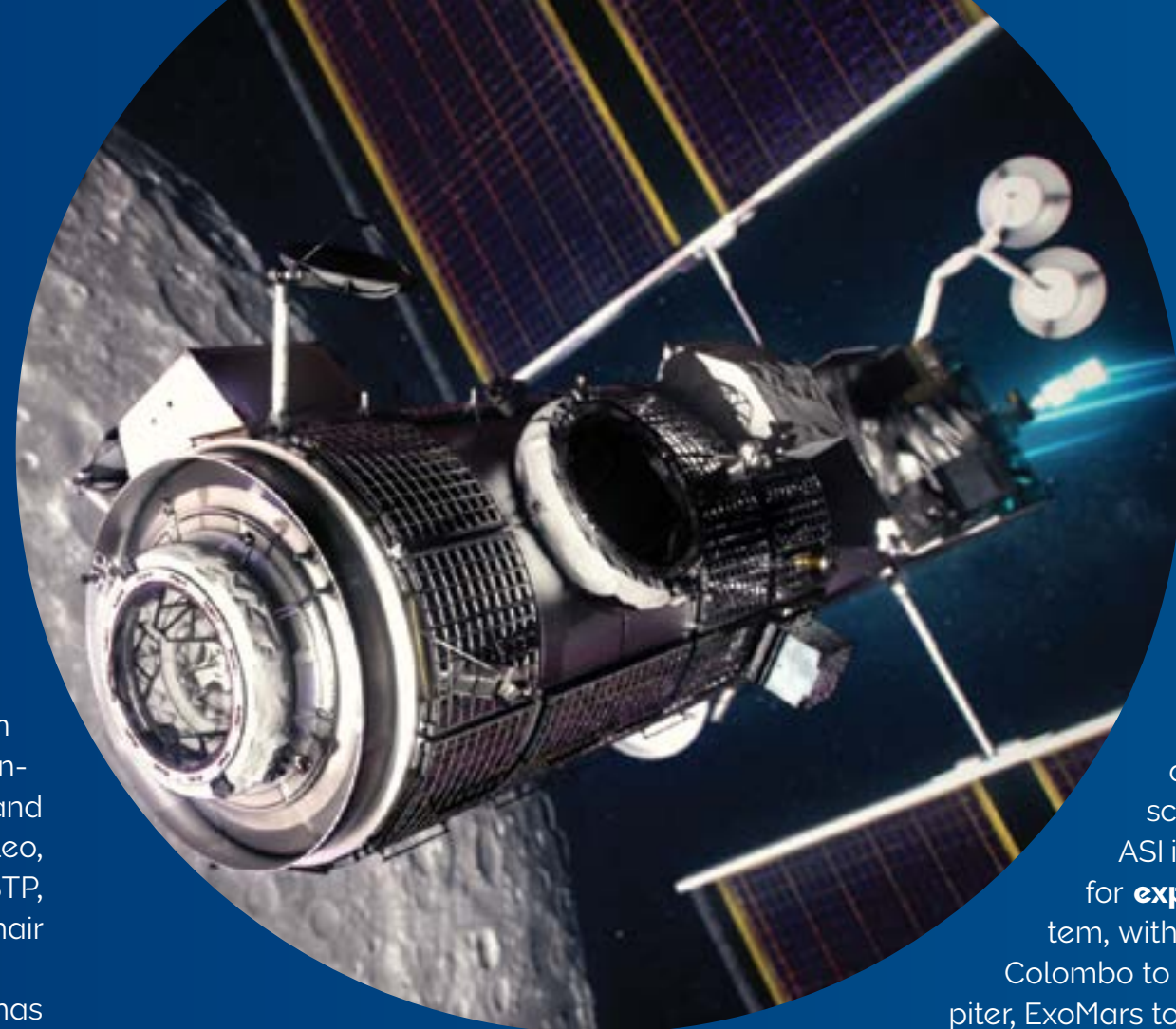
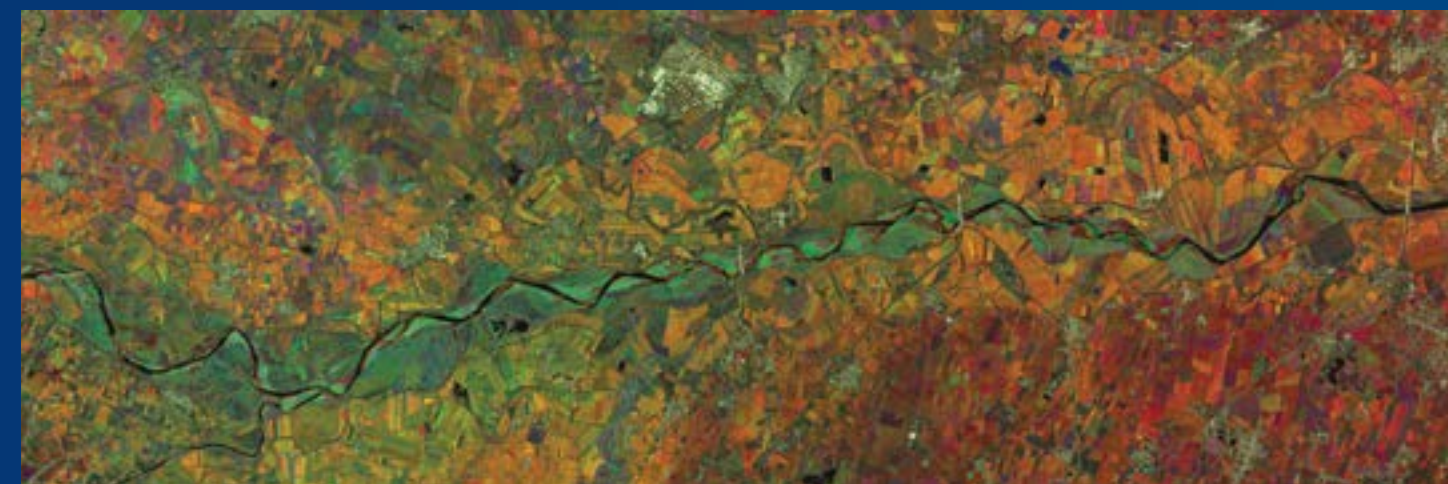


Illustration of Habitation and Logistics Outpost (HALO) for Gateway © NASA

BCC SAT-1 CubeSat © GAUSS

Po River – COSMO-SkyMed © ASI

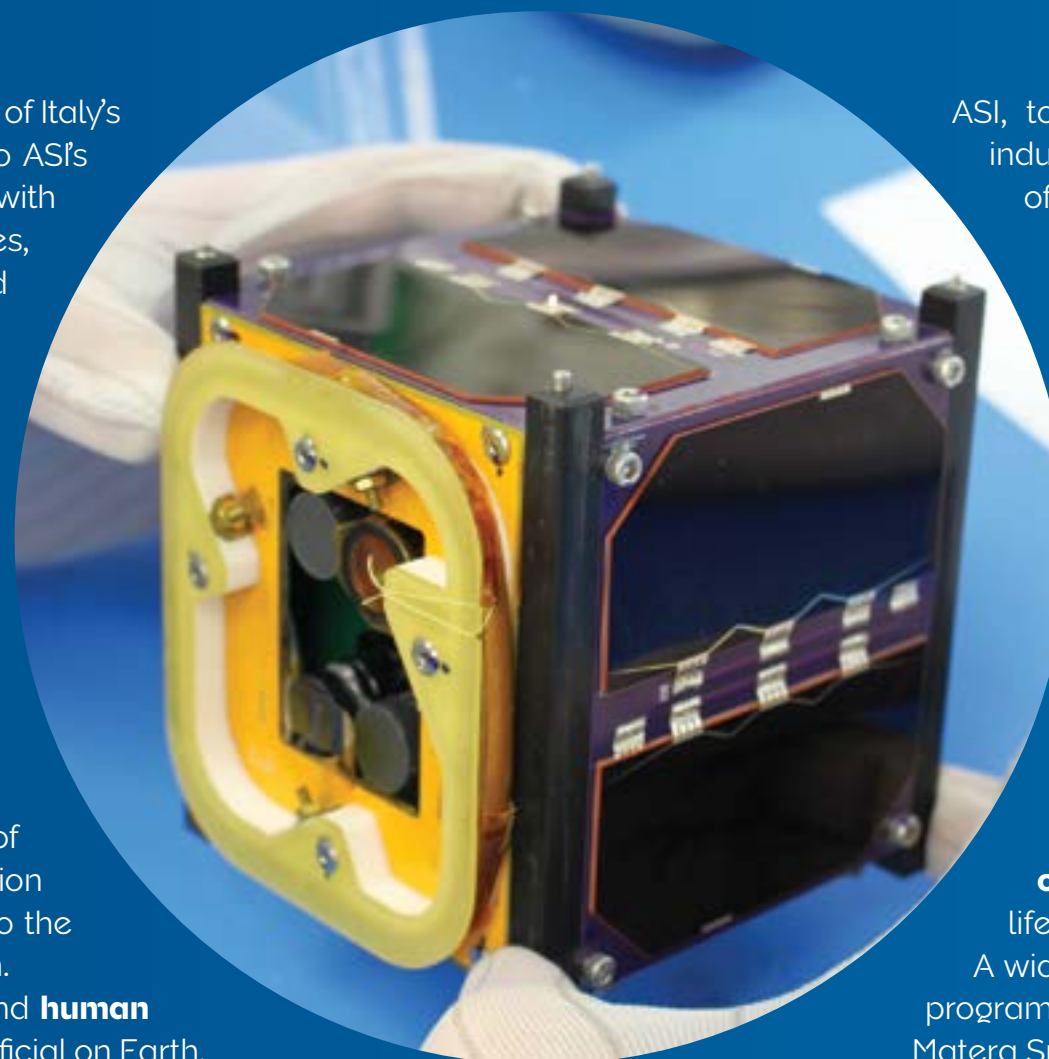


HORIZONS

Exploring the cosmos to shape the future

Science and research are at the heart of Italy's space exploration activities. Thanks to ASI's support, researchers study the universe with space telescopes, interplanetary probes, and by developing and using advanced scientific instruments.

ASI is a key player in international programs for **exploring** the universe: in the Solar System, with missions such as Solar Orbiter, Bepi-Colombo to Mercury, Juice to the icy moons of Jupiter, ExoMars to Mars; towards other celestial bodies, as with the Rosetta mission to study comets; of dark matter and dark energy, through the Euclid space telescope; and of **robotic and human space missions**, developing technologies for future missions to the Moon and Mars. Building on the previous success of the ISS and with Italy as a partner in NASA's Artemis program to return humans to the Moon, ASI is involved in the development of the Lunar Gateway and is cooperating in the creation of the mission control centre for the return to the Moon, while also contributing to the operations of the Mars rover control centre for the ExoMars mission. ASI is also committed to research activities in **Low Earth Orbit** and **human spaceflight**, conducting numerous experiments that are also beneficial on Earth.



GROWTH

Space, a driver for development

ASI promotes the growth of a strong and competitive Italian space economy, fostering research and development of innovative technologies and products, and new opportunities for skilled jobs and business. Through partnerships with universi-

ties and research centres, it intervenes in **higher education**, funding PhDs and training on-the-job programs. It supports the **technology transfer** of research results, implementing incubation and acceleration programs, such as the national ALCOR

programme on nanosatellites and calls for scientific and technological proposals to promote innovation in the space sector. ASI also participates in European initiatives, like the ESA Business Incubator Centres and SpaceFounders, to foster and

strengthen innovative start-ups in the space sector. It supports the Italian **space industry** through industrial missions to countries of commercial interest and B2B meetings. Space in Italy, with ASI, is a formidable driver for growth.

TECHNOLOGIES

From Space, solutions for everyday life

ASI, together with the entire Italian industrial chain, is at the forefront of developing successful space technologies, used on board national and international missions. Among the most relevant:

- technologies for **access to space**, with the Vega, Vega C and Space rider launchers and space propulsion systems;
- **satellite navigation and communication systems**, such as the global GPS program, the EU Galileo and IRIS² programs and, with NASA, the LuGRE project for Earth-Moon communications, the Moonlight project for telecommunications and navigation on the Moon;
- **systems and modules for space stations** (ISS, Lunar Gateway, MPH) and for life on the Moon;
- **robotic technologies, AI, quantum technologies and communications, innovative materials** for space exploration and for improving life on Earth.

A widespread Space Factory is being established across Italy, along with programs for in-orbit services and advanced technology laboratories at the Matera Space Centre.



Illustration of Blue Ghost CLPS lander on the Moon with LuGRE onboard © NASA

Flyeye and the Moon © ESA



PROTECTION

Safeguarding and defending human habitats

On Earth and in Space, ASI plays a key role in protecting and ensuring the **sustainability** of the environments where humans live.

ASI satellites for **Earth observation** monitor climate change, natural disasters and pollution: COSMO-SkyMed (the world's first dual radar constellation), PRISMA (the most advanced hyperspectral satellite), contributions to the Copernicus (EU) and IRIDE (with ESA) programs, collect data to be used in **applications and services** for citizens, non-space companies and administrations. For the **safety** of humans, orbits, environments and space infrastructures, ASI collaborates with the ESA network of Flyeye telescopes for tracking space objects and debris (Space Situational Awareness and Space Surveillance & Tracking), and participated in the NASA planetary defence mission DART, with the LiciaCube nanosatellite.