

EU SPACE PROGRAMME OVERVIEW

EU SPACE PROGRAMME

3 MISSIONS

EARTH
OBSERVATION

NAVIGATION

PROTECTION & SECURE COMMUNICATION

5 COMPONENTS

COPERNICUS

EUROPEAN UNION



Earth Observation (EO) and monitoring based on satellite and non-space data

N°1 world provider of space data and information

GALILEO



Global satellite navigation and positioning system (GNSS)

10% of the EU GDP enabled by satellite navigation

EGNOS



Enables the use of GNSS signals for safety of life applications in aviation

Operational in 426 airports & helipads in 32 countries

SSA



Space situational awareness monitoring and protecting space assets

Providing surveillance and tracking services to **268**+ satellites

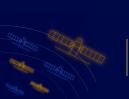
GOVSATCOM



Secure satellite communications for EU security actors

Delivering rapid support over crisis areas

BOOSTING THE ECONOMY



€5 BILLION 2007- 2014- 2021-







30⁺ EU-owned satellites in orbit for EO and GNSS

EU Investment in space

- Global GNSS and EO enabled revenues crossed €200 billion in 2021
- set to reach almost €500
 billion over the next decade

Over **2.5 billion**Galileo enabled
Smartphones

- □ of the European EO companies use Copernicus data
- European Industry holds over 41% of the global EO downstream market

turnover for EO-derived data and services is **€2.8b**

AN ENABLER FOR THE DIGITAL TRANSITION



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Game changer for autonomous driving and commercial drones



Training Artificial Intelligence and enabling big data analytics in many areas of application



SOME AREAS OF APPLICATION

Agriculture •



EU Space enables precision agriculture and integrated farming solutions. It helps farmers increase yields by 10%+ and save 20%+ on fertiliser, fuel and pesticides, and enables safe landings and autonomous machines.

Response to **Natural Disasters**



EU Space supports rescue operations during floods, fires earthquakes and hurricanes as well as man-made disasters.

Smart Cities •



EU Space is crucial for urban mapping, planning and infrastructure monitoring, notably enabling better urban transport and smart waste management.

Renewable Energies



EU Space supports the siting of renewable energy facilities assessing potential energy generation and environmental impacts.

Health •



EU Space helps to forecast air quality and UV radiation having an impact on our health.

EU SPACE PROGRAMME FOR A COMPETITIVE SPACE ECOSYSTEM

GALILEO

To accelerate the deployment of the Galileo 2nd Generation to increase its performance and robustness.

COPERNICUS

To accelerate the modernisation of both Copernicus infrastructure and services to ensure the world-class role of the EU in Earth Observation.

CASSINI

€1 bn Space Investment Fund to accelerate the expansion of innovative SMEs and start-up in space and the development of breakthrough technologies and processes.

AN INVESTMENT IN A FUTURE READY EUROPE

- EU Space provides innovative space technology, data and services indispensable in the lives of Europeans, and addresses an increasing range of EU ambitions and priorities:

→ Competitive Edge



Completing current satellite constellations, developing and launching the next-generation of satellites

Research Innovation



Ambitious research and innovation programme benefiting from Horizon Europe

→ Fighting Climate Change



Monitoring biodiversity, environmental compliance and CO2 emissions (Paris Agreement)

EU as a global actor



Supporting disaster relief, humanitarian assistance and security operations

