



EUROPEAN UNION



EGNOS



# EU SPACE PROGRAMME OVERVIEW



## COPERNICUS

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

**Nr.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

Reliable navigation signals for safety of life use

**Operational in 360+ airports & helipads in 23 countries**



## SSA

Space situational awareness monitoring and protecting space assets

**Providing surveillance and tracking services to 210+ satellites**



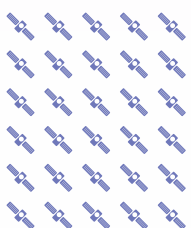
## GOVSATCOM

Secure satellite communications for EU security actors

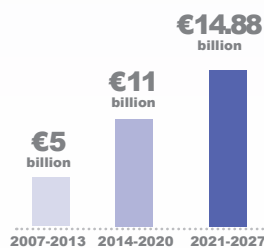
**Delivering rapid support over crisis areas**

## BOOSTING THE ECONOMY

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



**EU Investment in space**



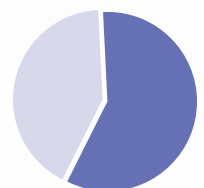
**250.000+ jobs supported by EU Space**

with a value added estimated at **€ 46-54 billion**

**Over 2 billion Galileo-enabled devices**



**60% of the European EO companies use Copernicus data**



enabling over **10%** of the income in the sector

# AN ENABLER FOR THE DIGITAL TRANSITION

The EU Space programme provides critical infrastructure for the digital transformation. Space data is a key enabler of digital innovations such as **Autonomous vehicles, smart solutions and 5G wireless telecommunication networks.**



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 fertilizer, 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 impact on our health.

## EU SPACE PROGRAMME FOR A COMPETITIVE SPACE ECOSYSTEM

### Galileo

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

### Copernicus

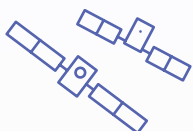
To accelerate the modernisation of both Copernicus infrastructure and services to ensure the world-class role of EU in Earth Observation.

### 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