#EUSpace

Linking space to user needs

Managing the European Union Space Services: EUSPA's Experience from EGNOS & Galileo to GOVSATCOM

Guerric Pont

Head of PNT Programmes Management Department

European Union Agency for the Space Programme (EUSPA)

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European Union Agency for the Space Programme

What is the EU Space Programme?

EU Space activities under one umbrella

EGNOS

EGNOS "Makes navigation signals more accurate and trustable for Safety-critical applications"

Operational in **500+ airports** & helipads in 27 countries

97% of new tractors with GNSS in Europe equipped with EGNOS

Galileo

Global satellite navigation and positioning system (GNSS)

More than **4.5 billion Galileo receivers** worldwide

Copernicus

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

Nr. 1 world provider of space data and information (16TB/day)

GOVSATCOM

Secure satellite communications for EU governmental actors

Rapid support over crisis areas

IRIS²

Infrastructure for Resilience, Interconnection & Security by Satellites

Sovereign multi-orbit constellation

Cutting-edge technologies focused on government service

Space Situational Awareness (SSA)

Space Surveillance and Tracking (SST)

Space Weather Events (SWE)

Near-Earth Objects (NEO)

EUSPA

the EU Agency for the Space Programme

our mission

Exploitation

- Galileo, EGNOS and Space Surveillance and Tracking Front Desk services provision
- GOVSATCOM hub development and initial services delivery
- Contribution to IRIS^2 through joint team in Commission
- Support preparation of EOGS

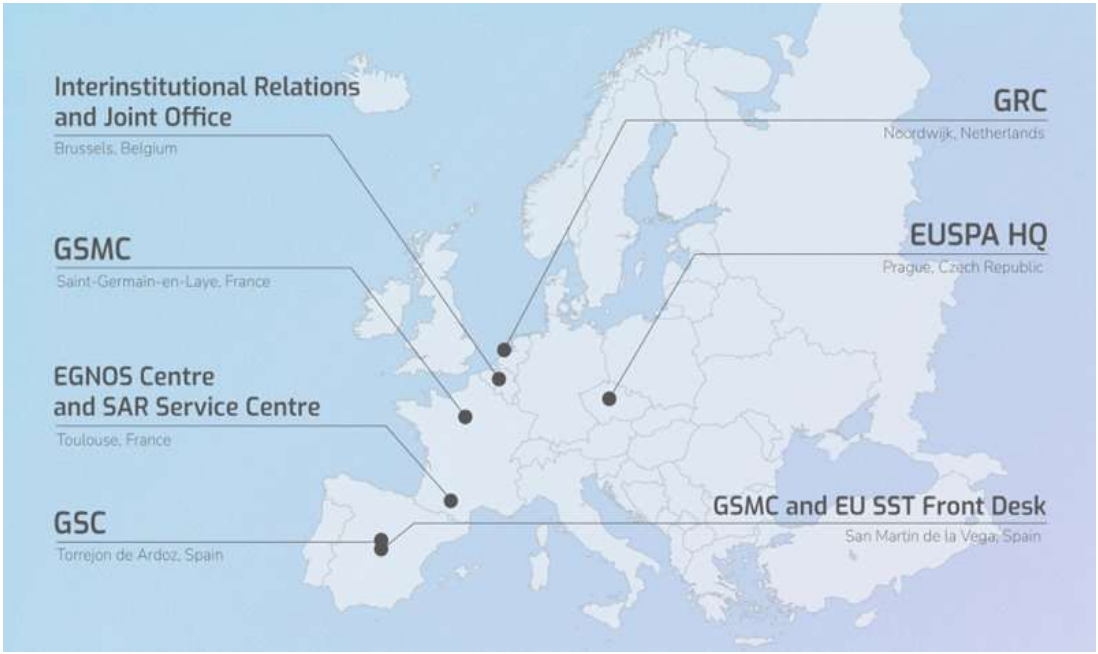
Security

- 24/7 Security Monitoring Center operations at GSMC
- Provision of Secured Governmental Services to EU Member States
- Security Engineering and Security Accreditation
- Contribute to the implementation of the EU Space Strategy for Security and Defense

Utilization

- Market development, communications, user uptake, applications, innovation
- Support to space innovators and entrepreneurs through CASSINI
- For Galileo, EGNOS, commercial use of Copernicus, GOVSATCOM, Space Surveillance and Tracking, and IRIS^2

EUSPA: facts and figures



September 2012: HQ comes to **Prague**
Today ~330 staff from 26 nationalities
Delegated budget 2021-2027: ~9.5 Billions €
Core budget : 80 Millions € / year



2002 — Galileo Joint Undertaking (GJU)

2004 — European GNSS Supervisory Authority

2010 — European GNSS Agency (GSA)

2021 — EU Agency for the Space Programme (EUSPA)

EU Space Regulation (2021/696)

Growing role of space in supporting EU priorities in terms of growth, competitiveness, sustainability, and security, and establishing EUSPA

Galileo

The sovereign navigation system for the EU

GNSS

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- **Galileo,** the European Union Global Navigation Satellite System (GNSS), providing standalone navigation, positioning and timing information (PNT) to users worldwide
- **Galileo** for the **EU governments and citizens with reliable and performing services**
- **Galileo is pioneering GNSS authentication** to secure a resilient EU PNT to support governmental & civil applications



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Galileo services – full EU infrastructure

- **The global services of Galileo are supported by an EU infrastructure deployed on EU territories**
- **This worldwide geographically distributed infrastructure is operated and maintained by EUSPA to ensure the continuous provision of Galileo services**





Galileo Control Centre
(Fucino, IT)



Galileo Reference Centre
(Noordwijk, NL)







GNSS Service Centre
(Torrejon, ES)



Galileo Control Centre
(Oberpfaffenhofen, DE)



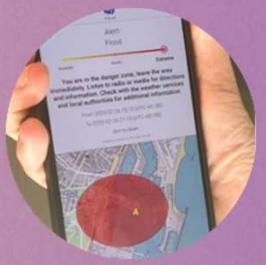
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Galileo Services Portfolio

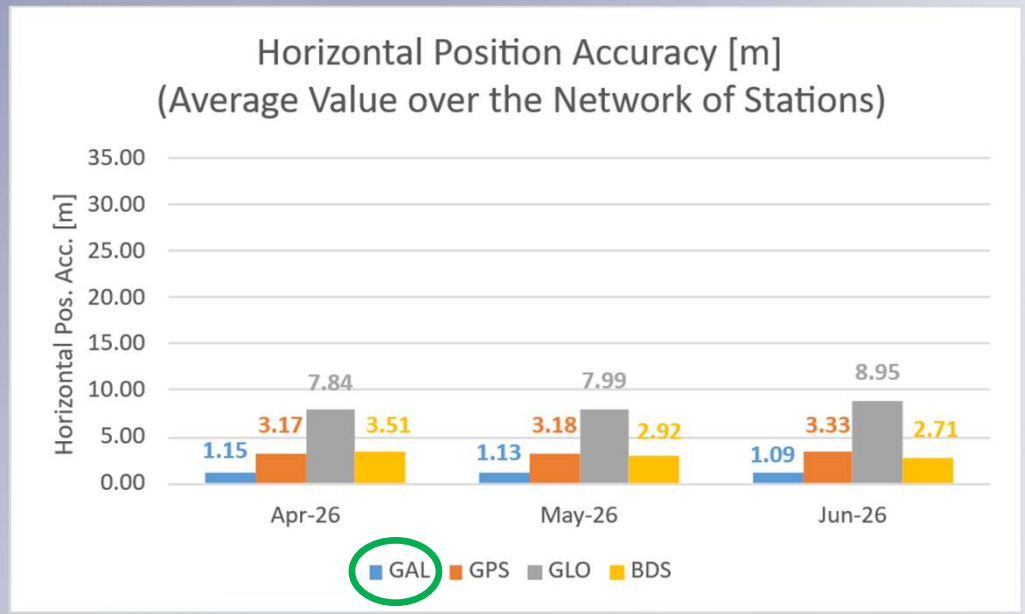


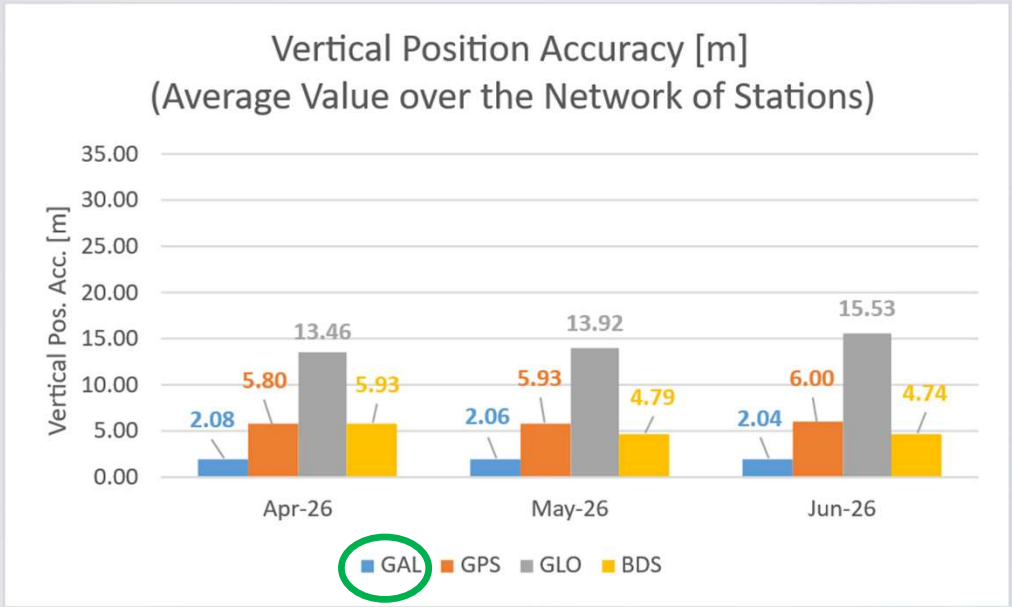
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OS and PRS Galileo Services delivered worldwide **since December 2016**

Open Service (OS)	**Public Regulated Service (PRS)**	**Search and Rescue Service (SAR)**	**High Accuracy Service (HAS)**	**Navigation Message Authentication (OSNMA)**	**Testing phase** **Emergency Warning Satellite Service (EWSS)**
Freely accessible positioning and timing Key for mass-market applications More than 4.5 billion users and growing!	Governmental users – strict access control - Encrypted signal for greater robustness and higher availability and service continuity	Locates people in distress and acknowledges that signal has been received 1 person saved per day in EU (8 worldwide)!	Delivers high accuracy corrections, freely accessible, to improve OS position Decimeter level accuracy worldwide	Delivers Galileo navigation parameters authentication Pioneer capability worldwide increasing robustness against spoofing	Complements the civil protection services for higher resilience (available when ground means are degraded). Message issued and received in 10 minutes!
					

Galileo: the Best in-class Services: Benchmark with respect to other GNSS





EGNOS

The European Geostationary Navigation Overlay Service

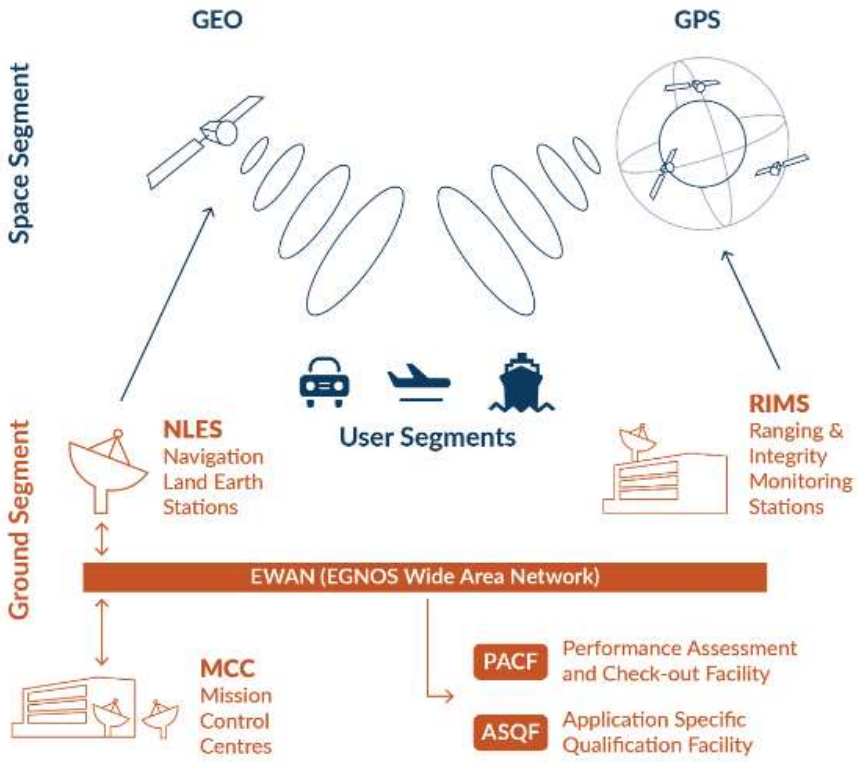
GNSS

- **EGNOS** is the Europe's regional Satellite-Based Augmentation System (SBAS) designed to enhance the accuracy and reliability of Global Navigation Satellite Systems such as GPS and, in the future, Galileo
- **EGNOS** was developed to make satellite navigation suitable for **safety-critical** applications, including aviation, maritime navigation, and land-based operations



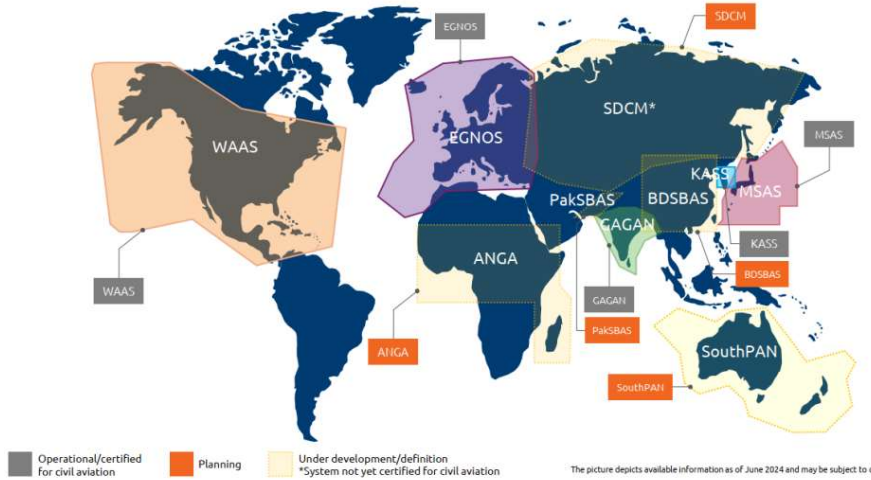
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EGNOS: European Geostationary Navigation Overlay Service



Europe's Satellite Based Augmentation System (SBAS) which improves GNSS for safety-of-life and other applications

... for Safety-of-Life in all EU transport sectors....



EGNOS Services

Usually **Open Service better than 1m horizontally** and **1.5m vertically**

EGNOS

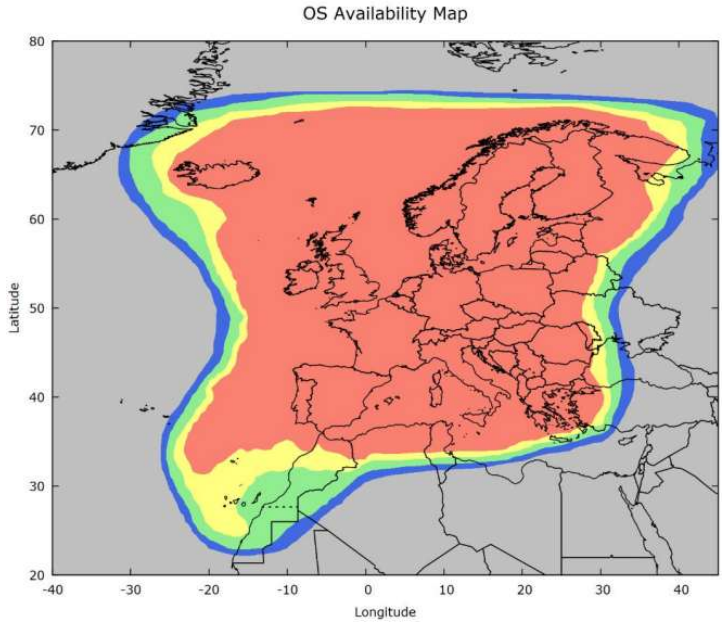
EGNOS services are provided to users since **October 2009**

Open Service (OS)	Improving GNSS accuracy, intended mainly for high-volume satellite navigation applications for use by consumers
Safety of Life Service (SoL)	Providing a high level of integrity for users for whom safety is essential (e.g. civil aviation, in accordance with ICAO standards)
Data Access Service (EDAS)	Offering EGNOS data with greater added value through **internet**, intended mainly for professional or commercial use
Maritime SoL assisted service for **Maritime** users (ESMAS)	Providing integrity information (alarms) for users implementing IEC 61108-7 Standard

Operational in **500+ airports** & helipads in 26 countries

27% of EU fleet equipped

97% of new tractors with GNSS in Europe equipped with EGNOS



GOVSATCOM

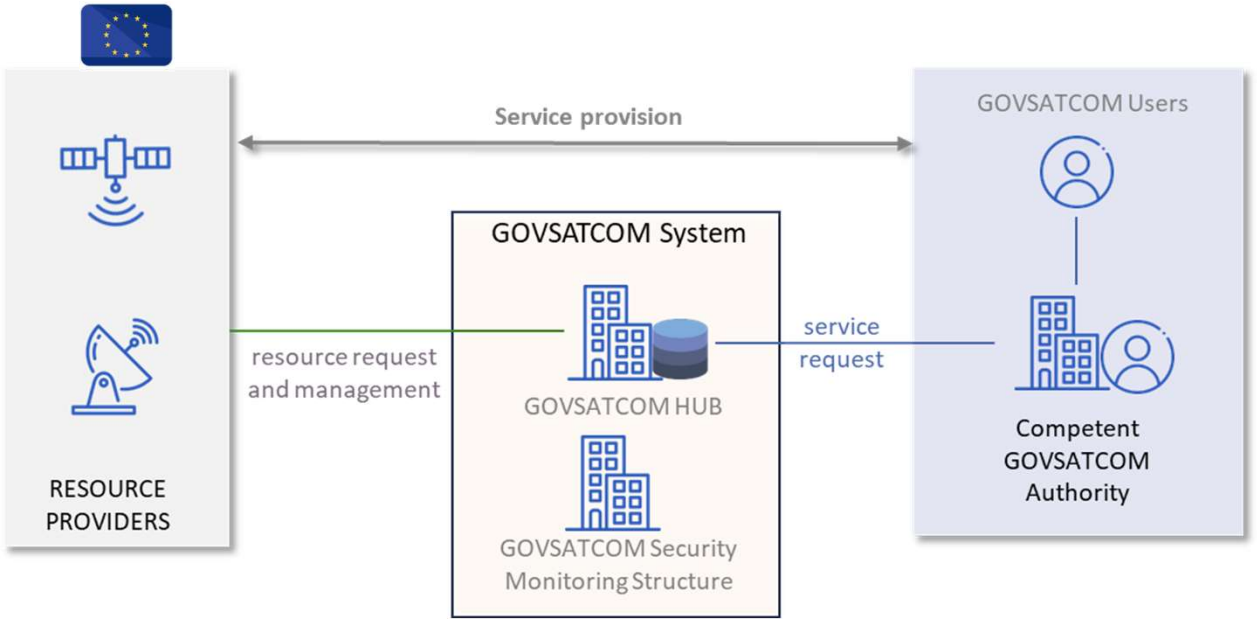
The Secure Governmental Communications

- The **GOVSATCOM Hub** delivered secured communications services since **mid January 2026**
- First use case publicized (Cyprus); Several other Competent GOVSATCOM Authority (CGA)/Users already onboard
- **5 Governmental Resource Providers** on boarded (LU, IT, FR, ES, GR)
- **GOVSATCOM** is increasing **EU Security and Resilience**



The GOVSATCOM HUB





- The existing SATCOM resources (capacities, services) are pooled from resource providers
- Users request GOVSATCOM services from the GOVSATCOM Hub, through their Competent GOVSATCOM Authority (CGA)
- GOVSATCOM services are compensated using tokens

For defense and governmental missions

GOVSATCOM Hub co-created by EUSPA

Breakthrough innovation: one-stop-online-shop

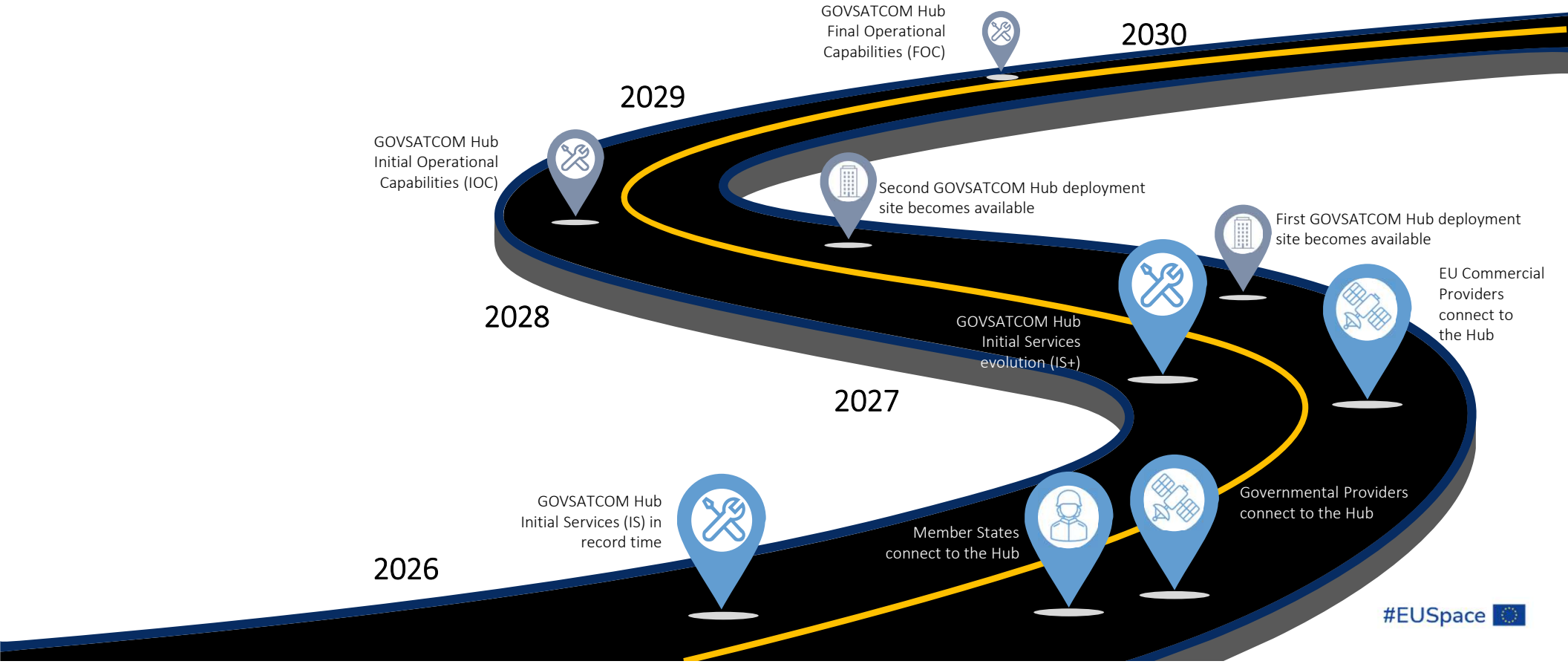
World-class, real-time, secure satcom catalogue

Services procured & activated in a few clicks

Enabling missions anywhere anytime

GOVSATCOM Roadmap





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Space Surveillance & Tracking Front Desk
Delivery of SST services

EU SST
Space Surveillance and Tracking

EU Space Surveillance and Tracking

SST Front Desk

User interface for the delivery of SST services:

Collision Avoidance
risk assessment of collision between spacecraft and space debris

Re–entry Analysis
risk assessment of uncontrolled re-entry of artificial space objects

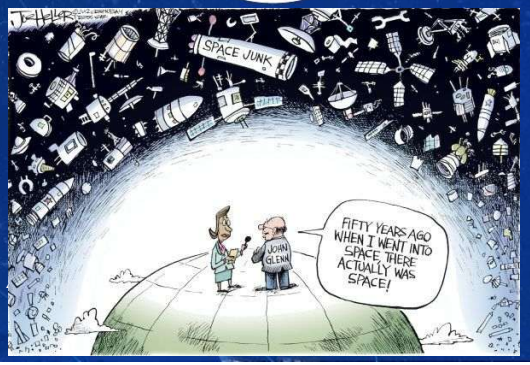
Fragmentation Analysis
detection and characterization of in-orbit fragmentations

Users

>420 Organisations

>740 Satellites

>100 Operators



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