

IRIS²

NEREUS General Assembly 2023



20 April 2023

DISCLAIMER

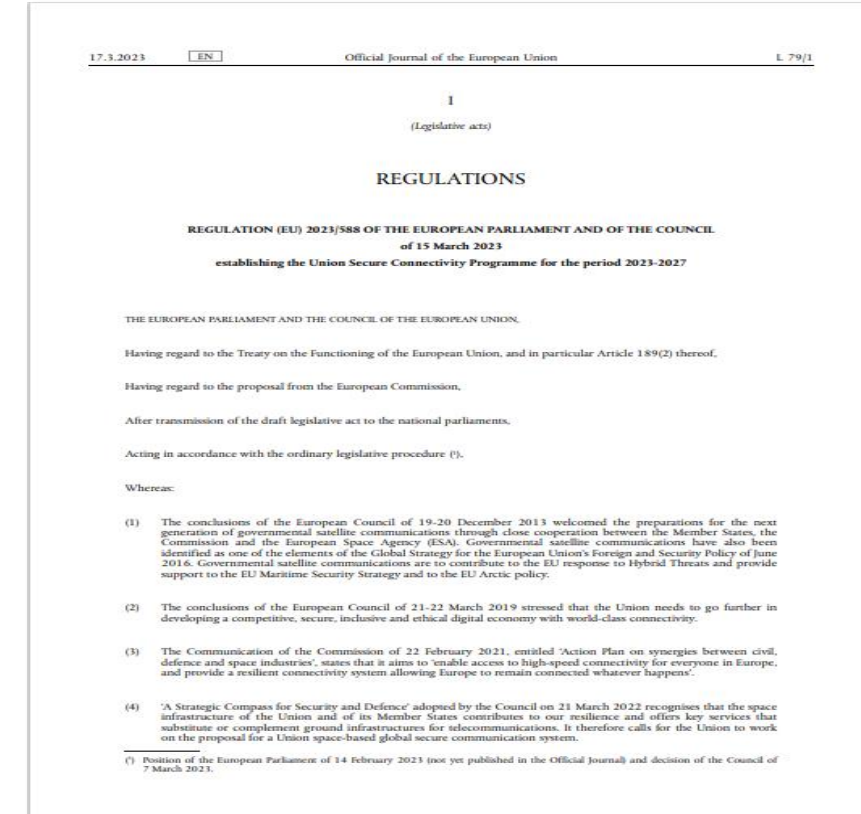
This meeting is being held in the procurement phase of the IRIS² programme and therefore, in accordance with the provisions of the EU's Financial Regulation, any information relating to the procurement itself cannot be discussed.

This is to ensure that the principle of equal treatment with other potential tenderers is not altered.

The EU Regulation



The Regulation is in force since 20 March 2023



Why IRIS²

The two Programme objectives (Article 3 of the Regulation)



1. Ensure secure, autonomous, high-quality, reliable & cost-effective satellite governmental communication services to government-authorised users

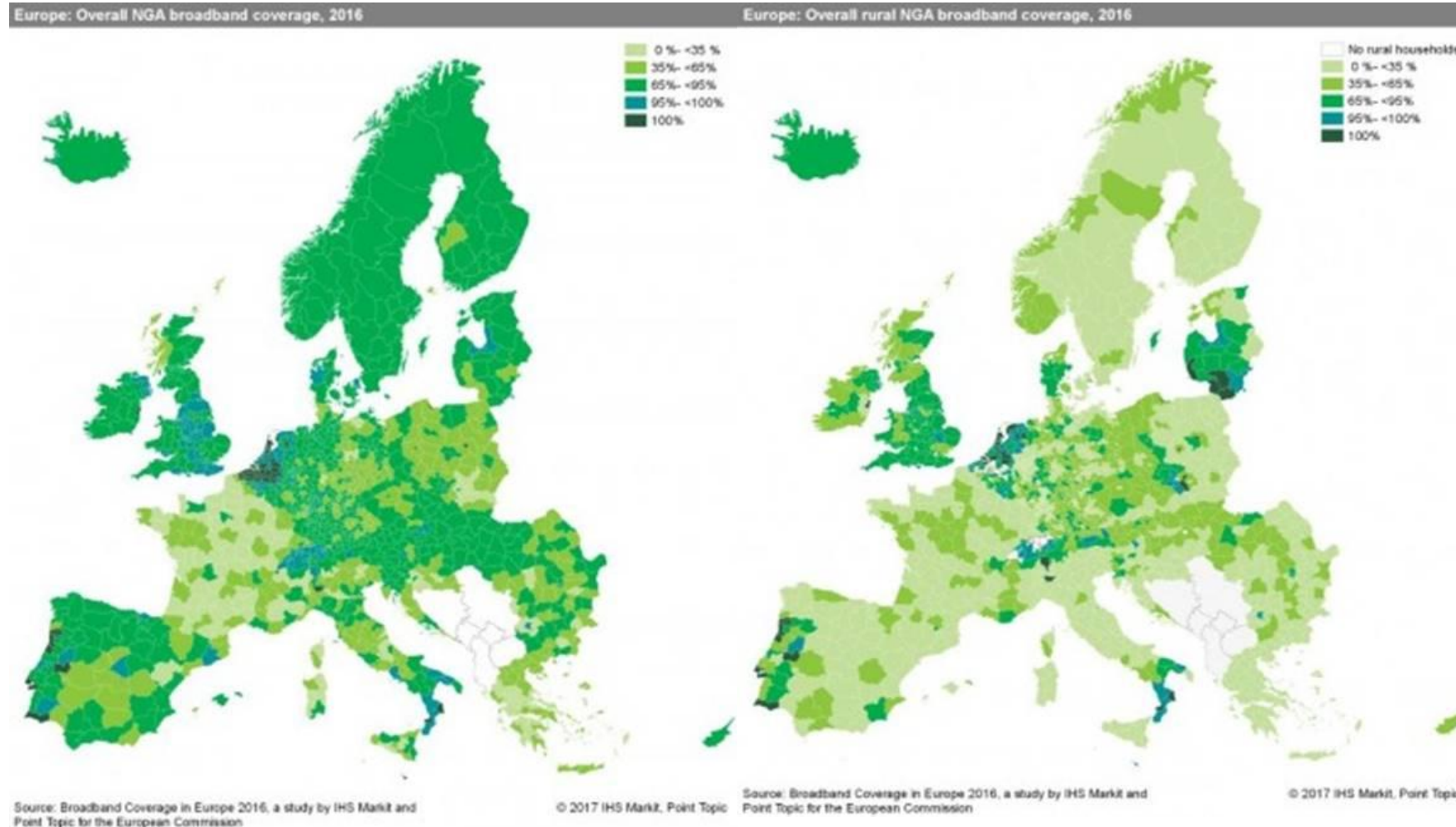


2. Enable commercial services, or services offered to government-authorised users based on commercial infrastructure at market conditions



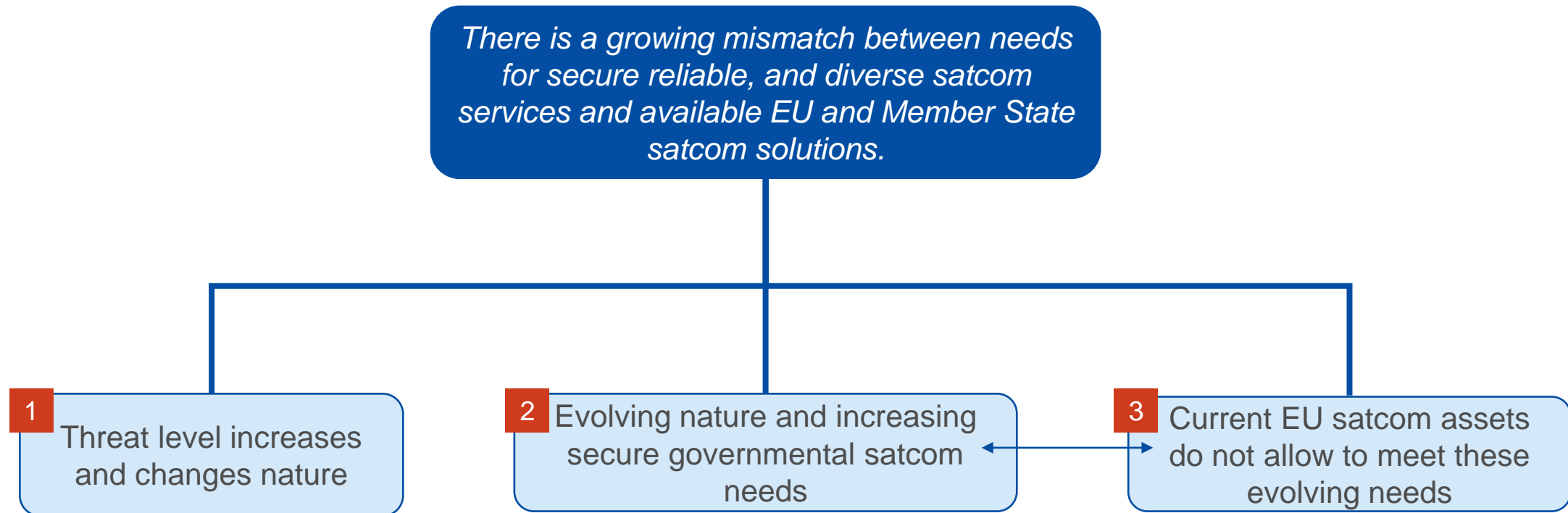
In order to facilitate, inter alia, the further development of worldwide high-speed broadband and seamless connectivity as well as **removing communication dead zones and increasing cohesion across Member States' territories**, while bridging the digital divide

Digital divide has socio-economic consequences for rural areas and challenges the development of a fully functioning single market

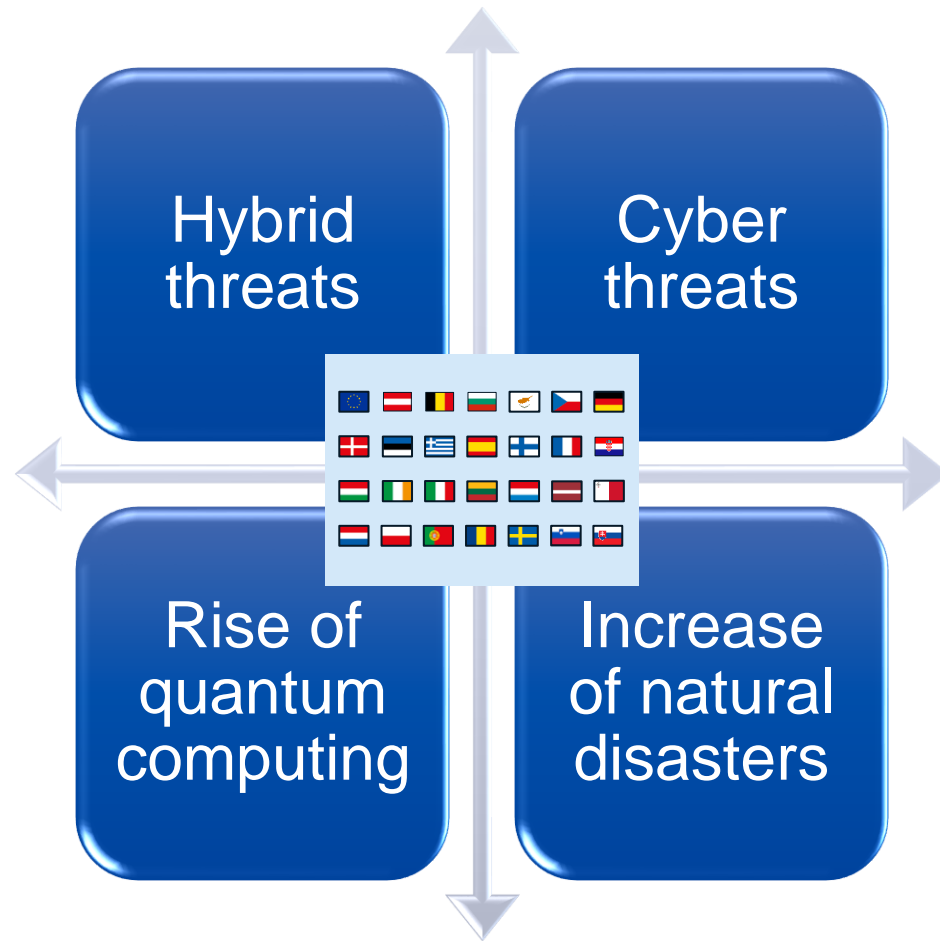


- Lack of broadband availability leads to the digital exclusion of about 3% of the total EU population (and of 10% of households in rural areas)
- As demands will continue to grow it is necessary to provide a resilient and scalable solution that can provide ubiquitous coverage.

Addressing unmet new Satcom needs

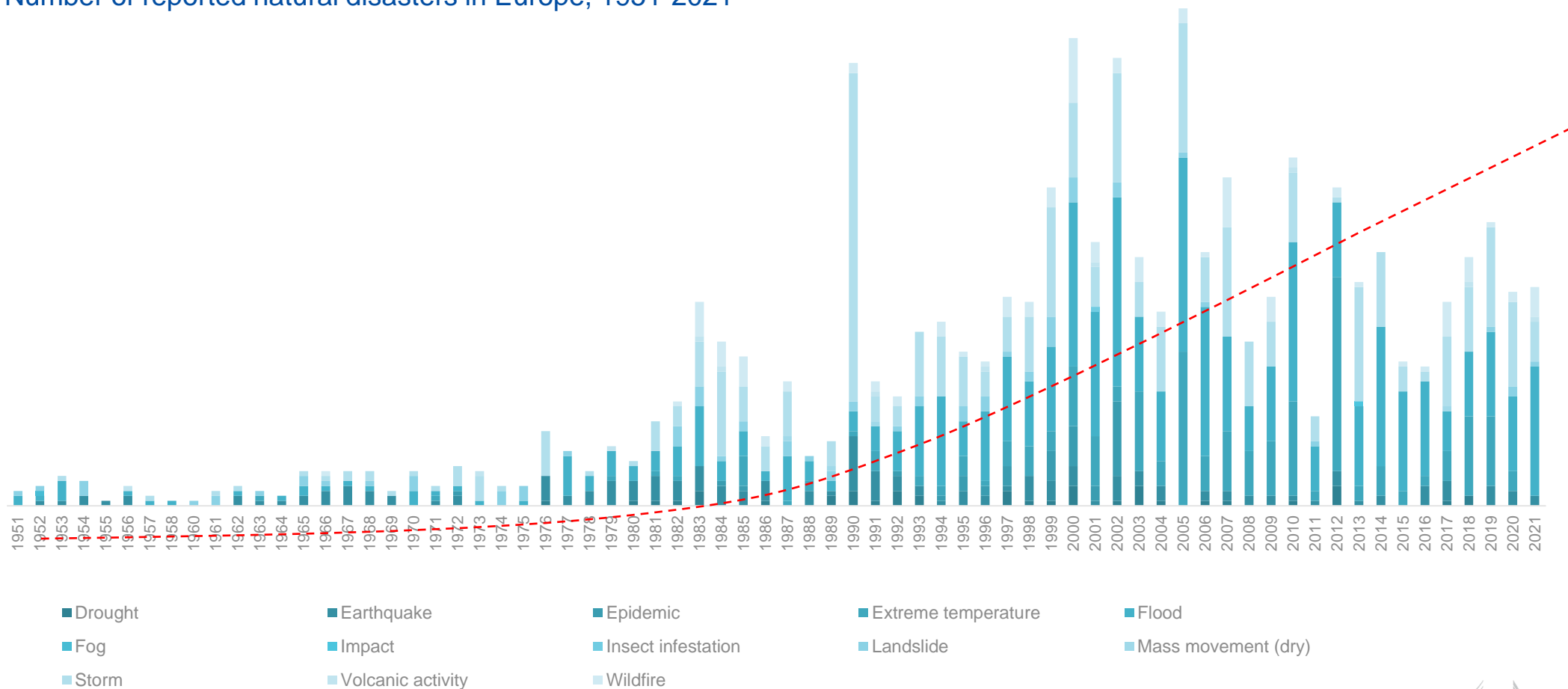


Increasing threats on critical infrastructures



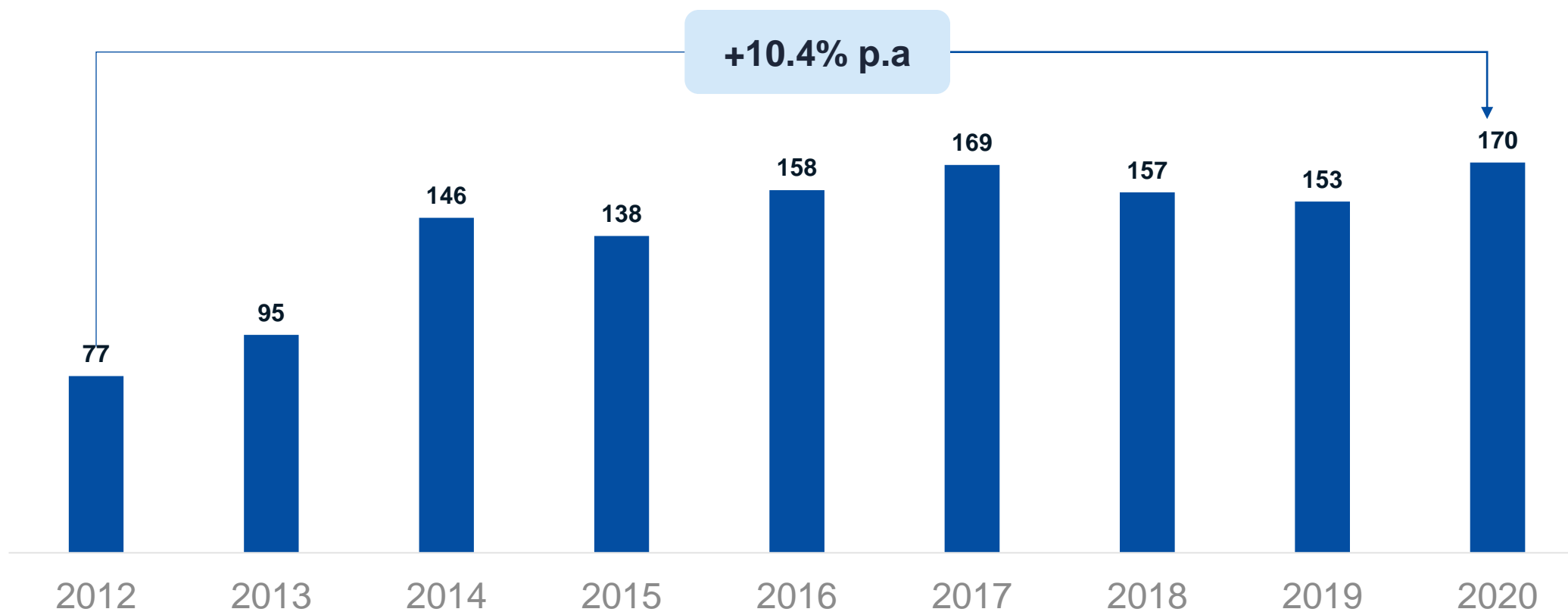
Increasing natural disasters in Europe

Number of reported natural disasters in Europe, 1951-2021



Security incidents impacting telecom services

Number of telecom security incidents per year, 2012-2020



Governmental use cases are evolving, requiring higher performance & global coverage

Governmental service needs



CRISIS MANAGEMENT AND EXTERNAL ACTIONS



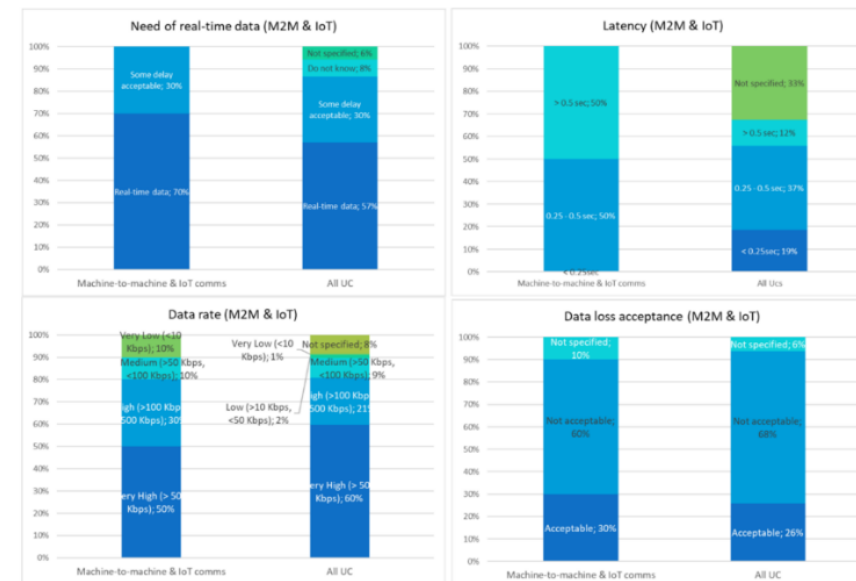
CONNECTING KEY INFRASTRUCTURES



SURVEILLANCE

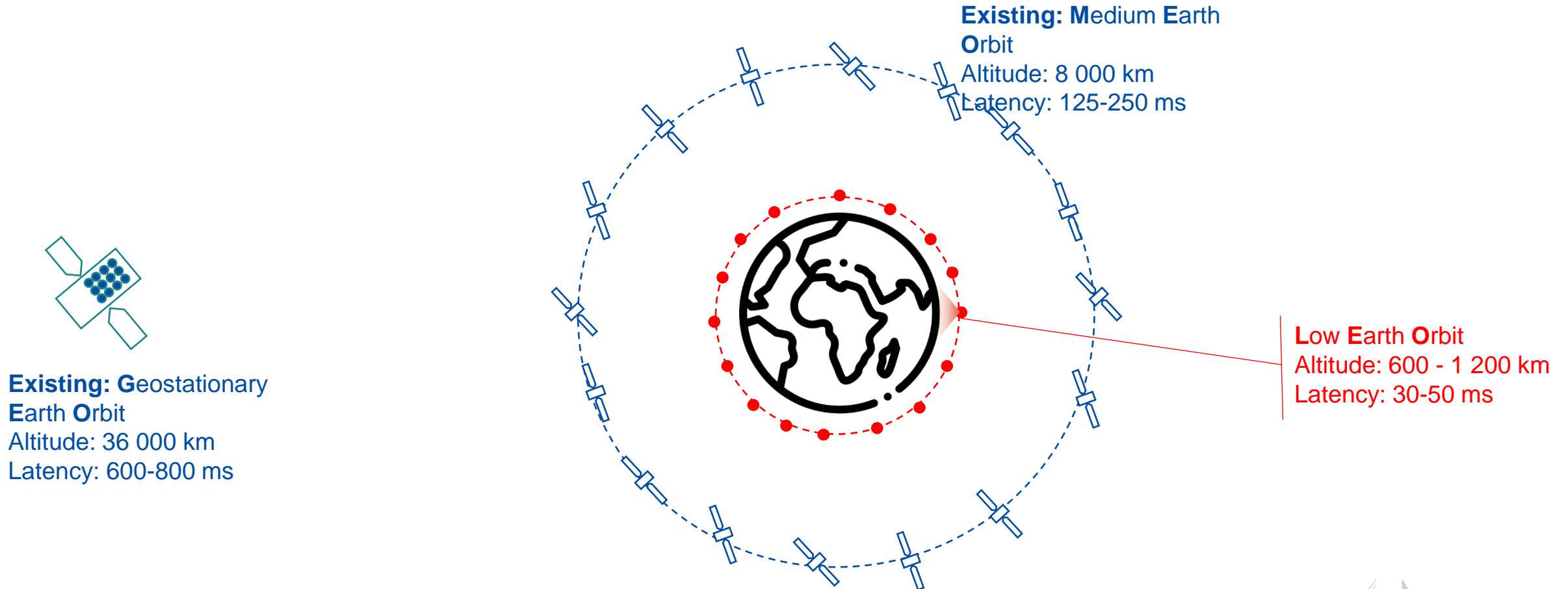
Evolving requirements

- Performance (Latency, real time data, data rate, data loss acceptance)



- Global coverage, in particular polar regions

The system aims at complementing existing EU infrastructure



3 OFFER MISMATCH

And filling a gap that all Space Powers are pursuing

Level of security

MILSATCOM :

- Strong access constraint
- Availability in non-permissive environments



National Defense Space Architecture - project



GOVSATCOM :

- Mid Access constraints
- High robustness
- Affordable user segment



IRIS²
Hard Gov



Sfera- Project



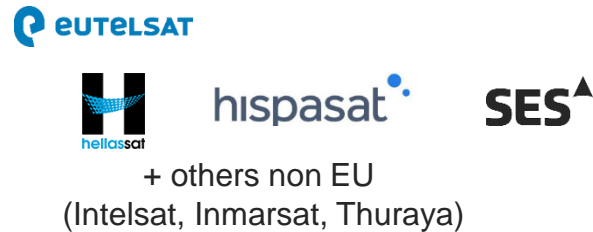
Starshield



GuoWang (国网)

Commercial Market :

- Unrestricted/unregulated access
- « Low cost » user segment



IRIS² 'light gov'
New commercial capacity (tbd)



GEO
Low latitudes
Restricted longitude
High latency

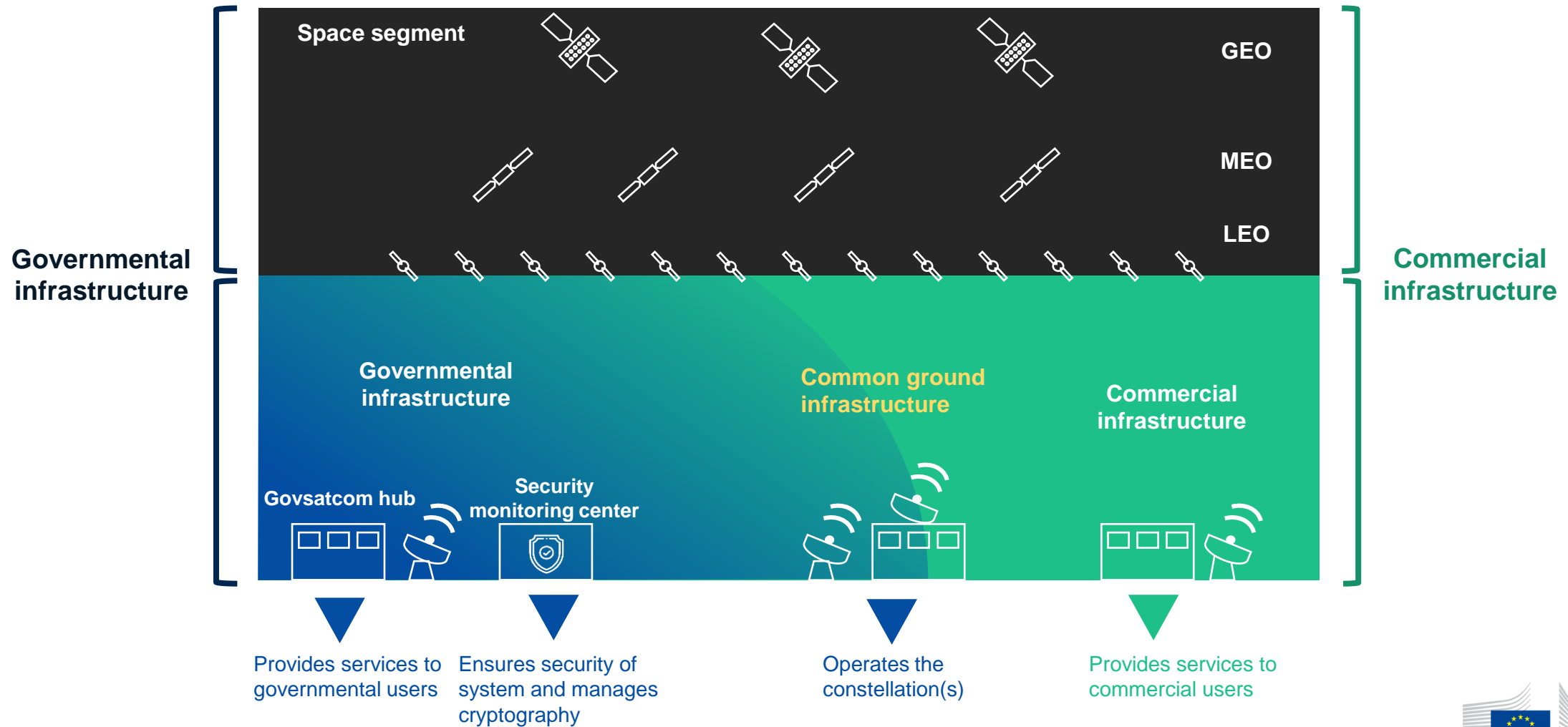
MEO
Low latitudes
Full long. Coverage
Medium latency

LEO Const.
Global coverage
Low latency

*Geographical
coverage*

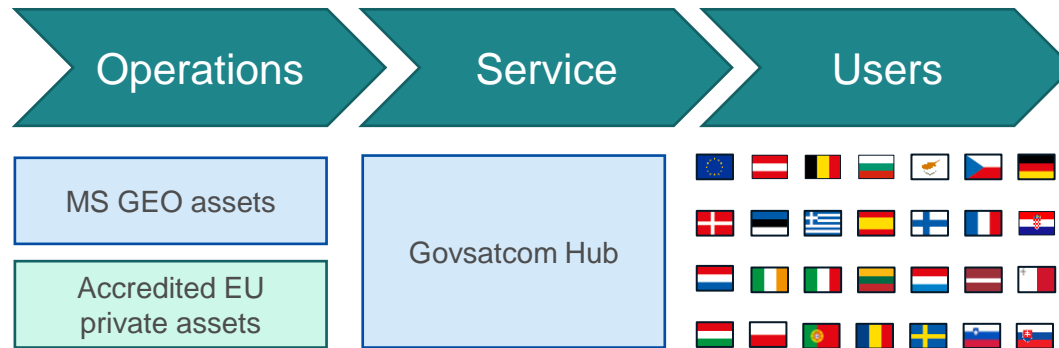
Infrastructure and services

Infrastructure and ownership of the Programme

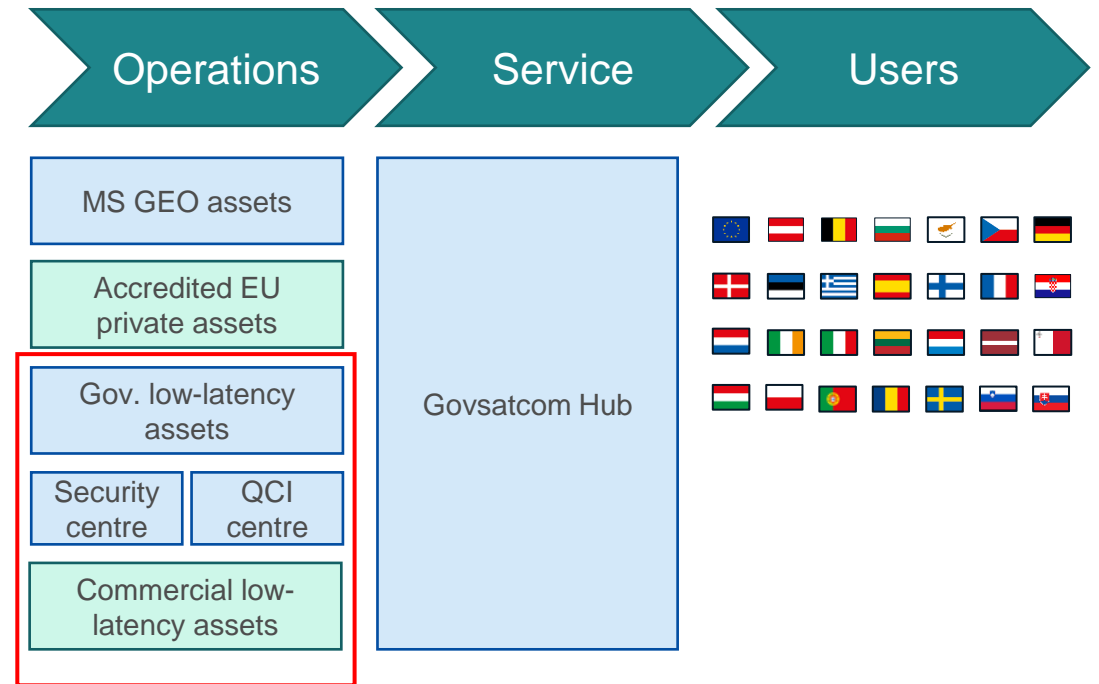


IRIS² will be built upon the govsatcom infrastructure

GOVSATCOM

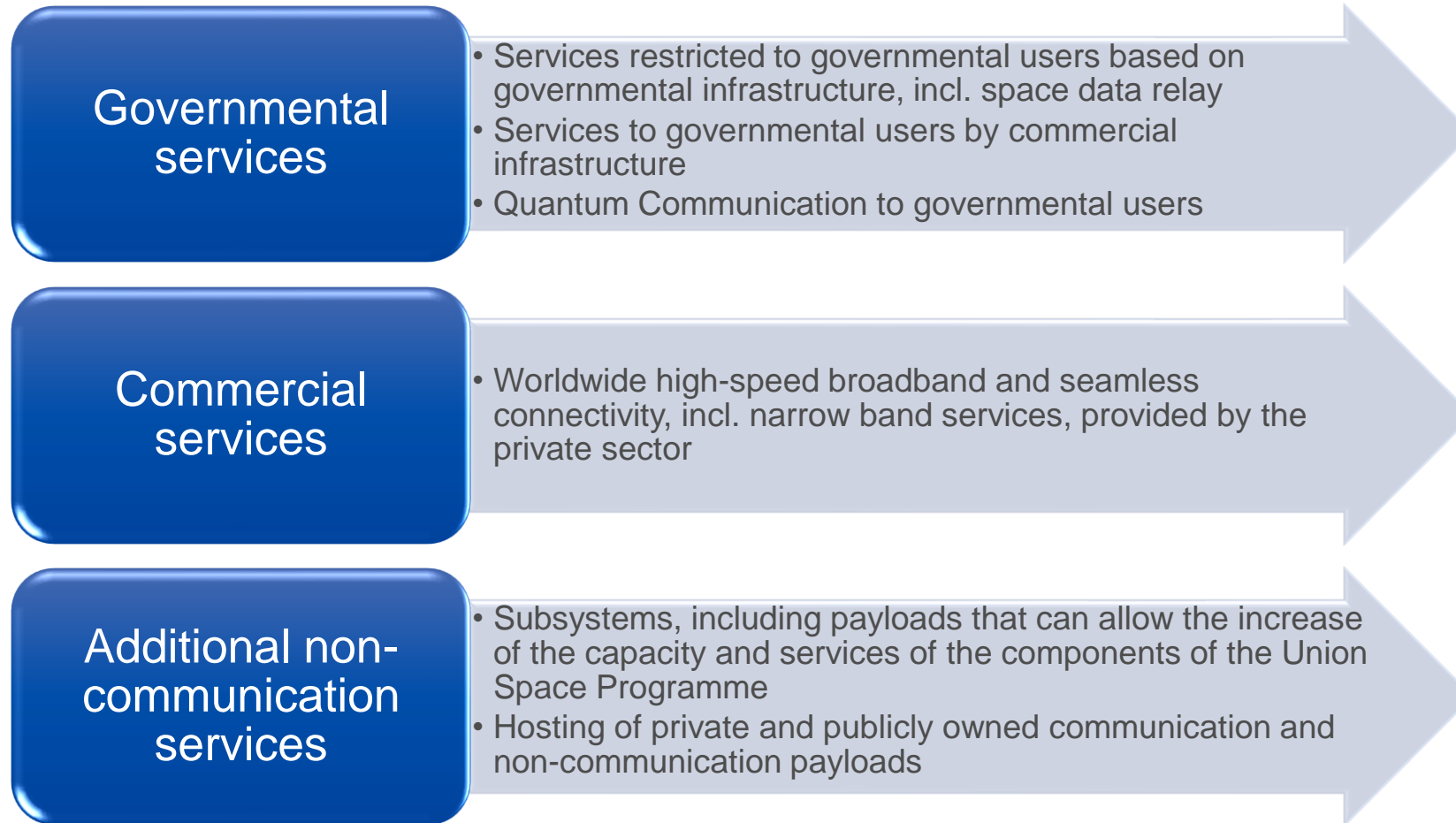


SECURE CONNECTIVITY



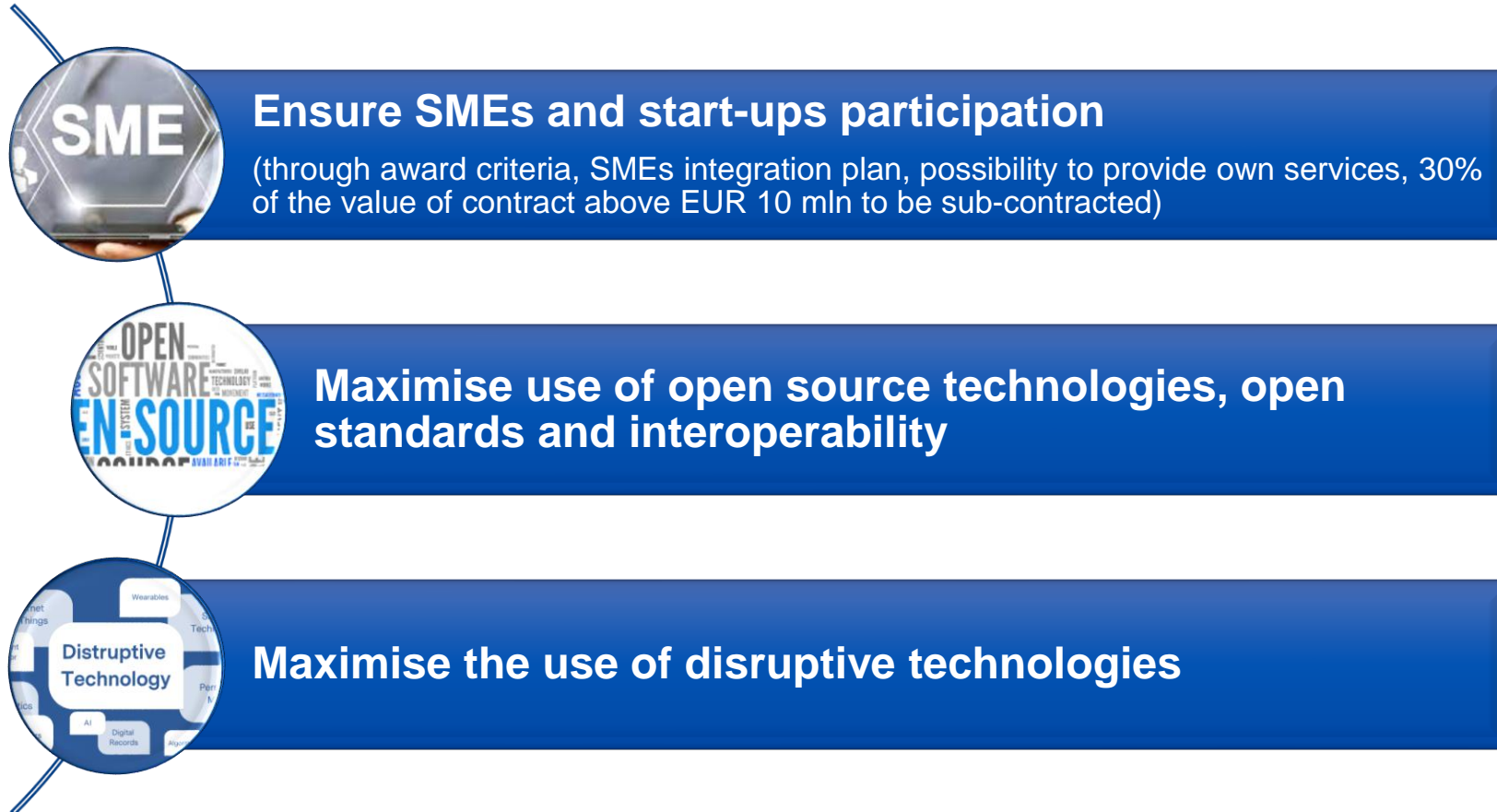
New infrastructure

List of services offered by IRIS²



Actions in support to New Space, start-ups and SMEs

Strengthening the competitiveness of the EU's space sector, especially New Space, start-ups and SMEs



Governance

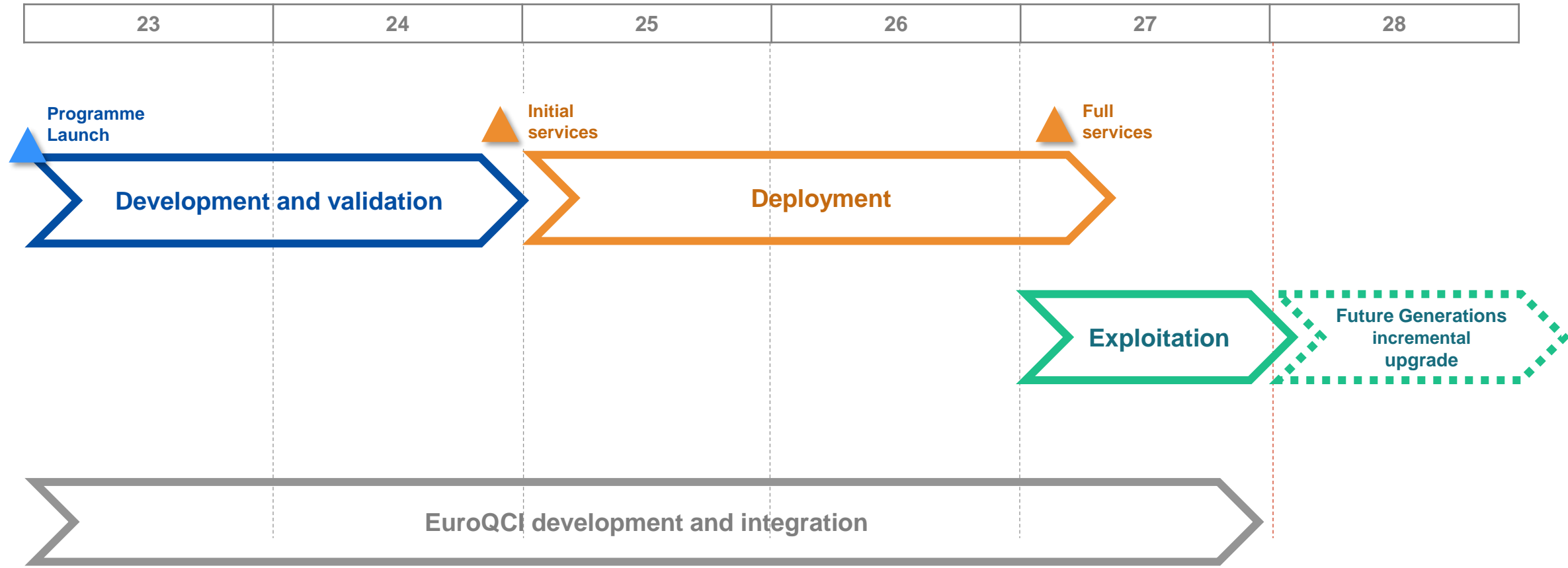
Governance of the Programme

Principles of governance



Timeline

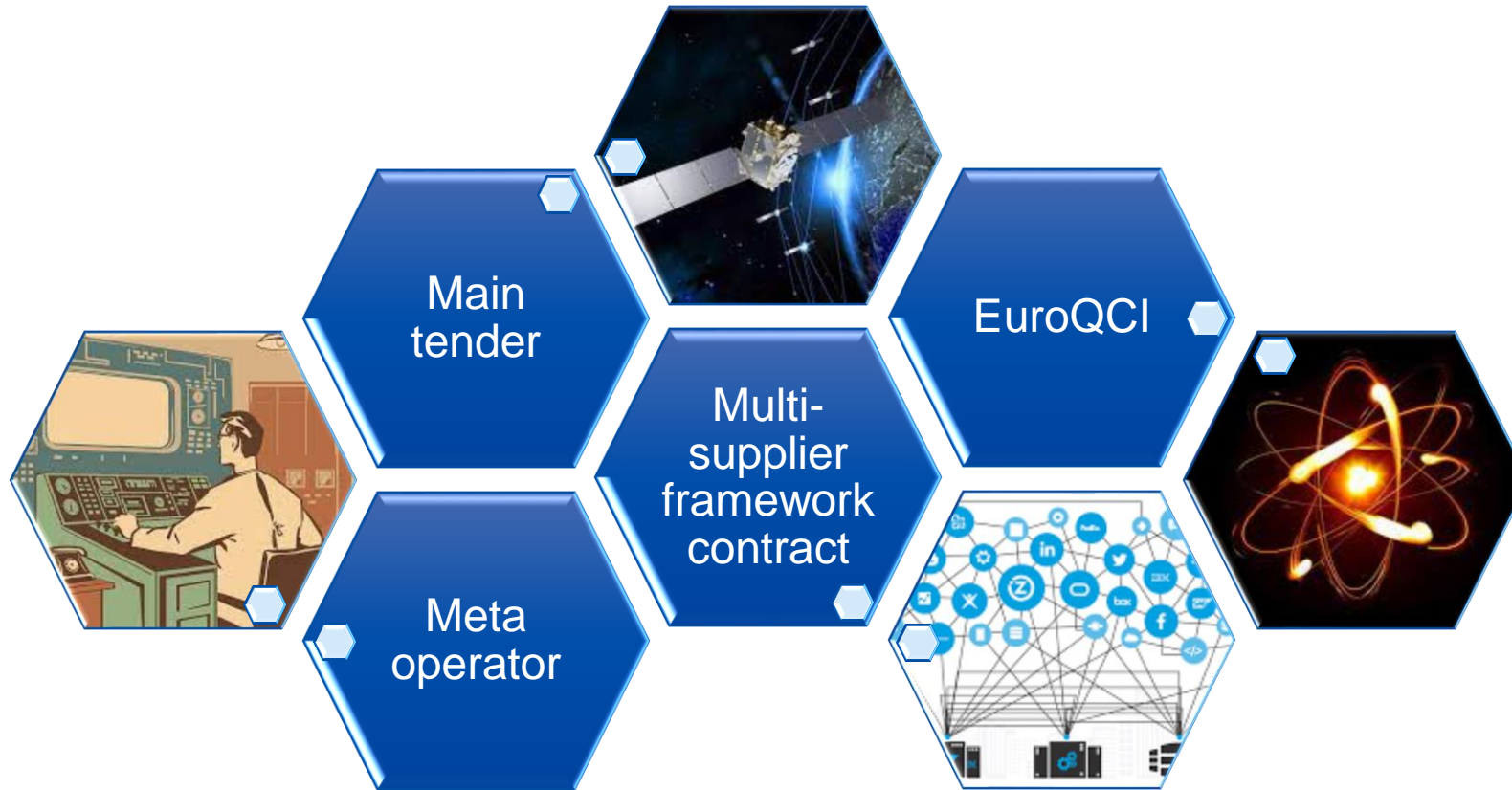
Timeline



IRIS² contractual building blocks



Contractual building blocks



Thank you