

Linking space to user needs

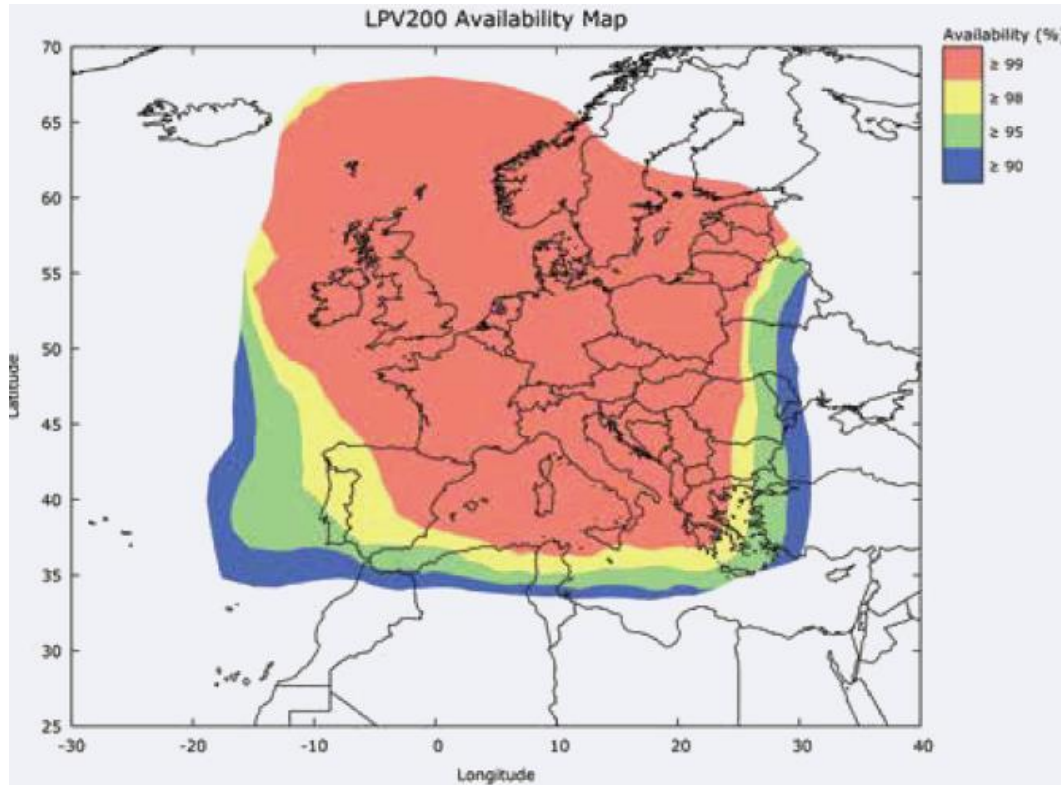
EGNOS Program Status

EGNOS Workshop – Berlin – 1 October 2025

Jean-Marc Piéplu – EGNOS Exploitation Program Manager

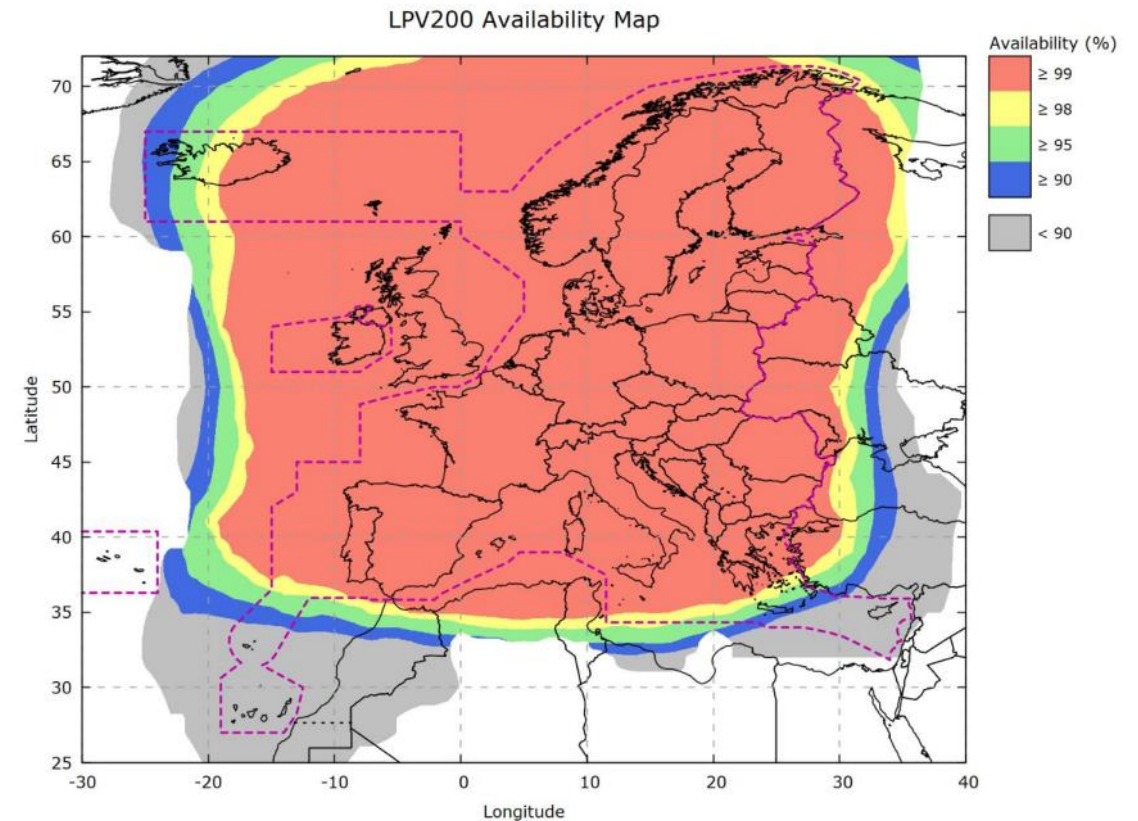
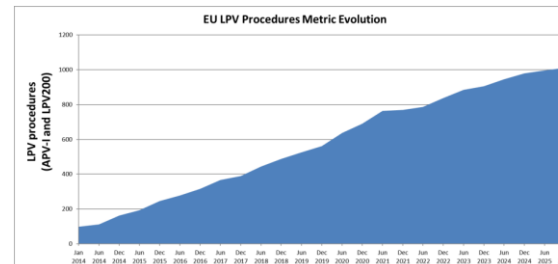


EGNOS SOL – 10 years of LPV-200



2015 (Copenhagen)

No LPV-200 procedure published



2025 (Berlin)

> 500 LPV-200 procedures published
in 27 countries

Note: LPV-200 is the service level which enables 3D instrument approach operations down to 200 feet decision height

Current EGNOS system status

- 2 MCCs: Torrejón (Spain) and Ciampino (Italy)
- 38 RIMS (Ranging & Integrity Measurement Stations)
- 4 GEOs with 2 NLES sites each

	GEO Name	Orbital Slot	NLES
GEO-1	ASTRA-5B	23.5 E	Betzdorf (Luxemburg) and Redu (Belgium)
GEO-2	ASTRA SES-5	5 E	Betzdorf (Luxemburg) and Redu (Belgium)
GEO-3	EUTELSAT 5WB	5W	Rambouillet (France), Cagliari (Italy)
GEO-4	EUTELSAT HB-13G	13 E	Canical (Portugal), Cagliari (Italy)

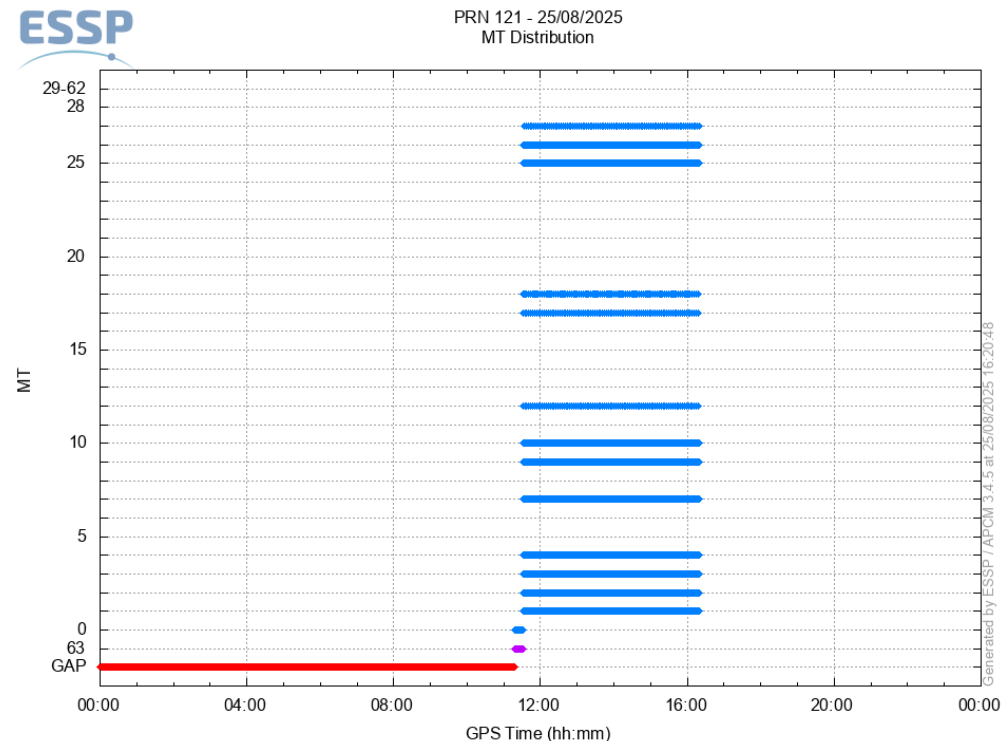
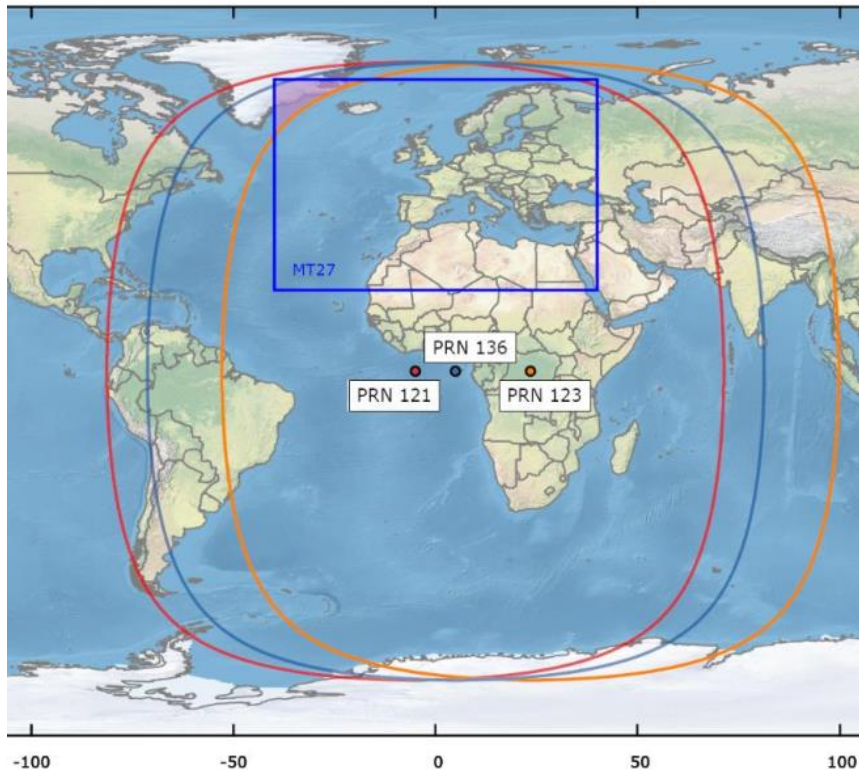
- 1 Operational Control Centre in Toulouse (France)
- 1 Service Centre in Torrejón (Spain)



Started GEO-3 operational use with EGNOS V243



- EGNOS operational SIS delivered through GEO-3 since 25 August (PRN-121)
- Nominal EGNOS Space Segment operational capability has been restored:
 - 2 GEOs for service delivery
 - 1 GEO for back-up / tests
- GEO-3 payload hosted by Eutelsat 5WB with uplink stations in Rambouillet (FR) & Cagliari (IT)



EGNOS V2 System Release Plan

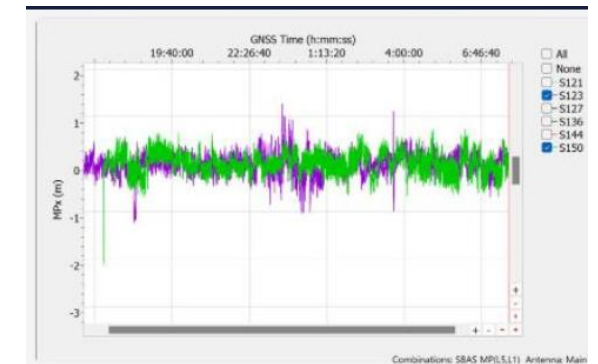
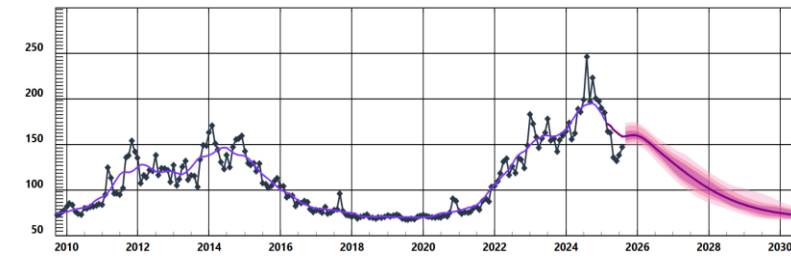


Release name	V243 (in operations)	LIFEX 1 – V244 (contracted)	LIFEX 1 – V245 (contracted)	LIFEX 2 (being procured)
Key Features	<ul style="list-style-type: none"> NLES G2 obsolescence Introduction of GEO3 in V2 OPS Security enhancement Anomalies correction 	<ul style="list-style-type: none"> NLES obso. @ GEO-2 New RIMS in Ermis (Cyprus) RIMS A&B obsolescence refresh Network obso. Part 1 Anomalies corrections Security enhancements 	<ul style="list-style-type: none"> New RIMS sites in Paphos (Cyprus) and Sevilla (Spain) Complete RIMS C legacy replacement by RIMS C G2 Network obsolescence part 2 Anomalies corrections Security enhancements 	<ul style="list-style-type: none"> GPS Block IIIF capable RIMS NG qualification and initial deployment Security enhancements
Entry in operations	1st SiS: 25 Aug 2025	<i>Q4 2027</i>	<i>Q1 2029</i>	<i>Q4 2029/Q1 2030</i>

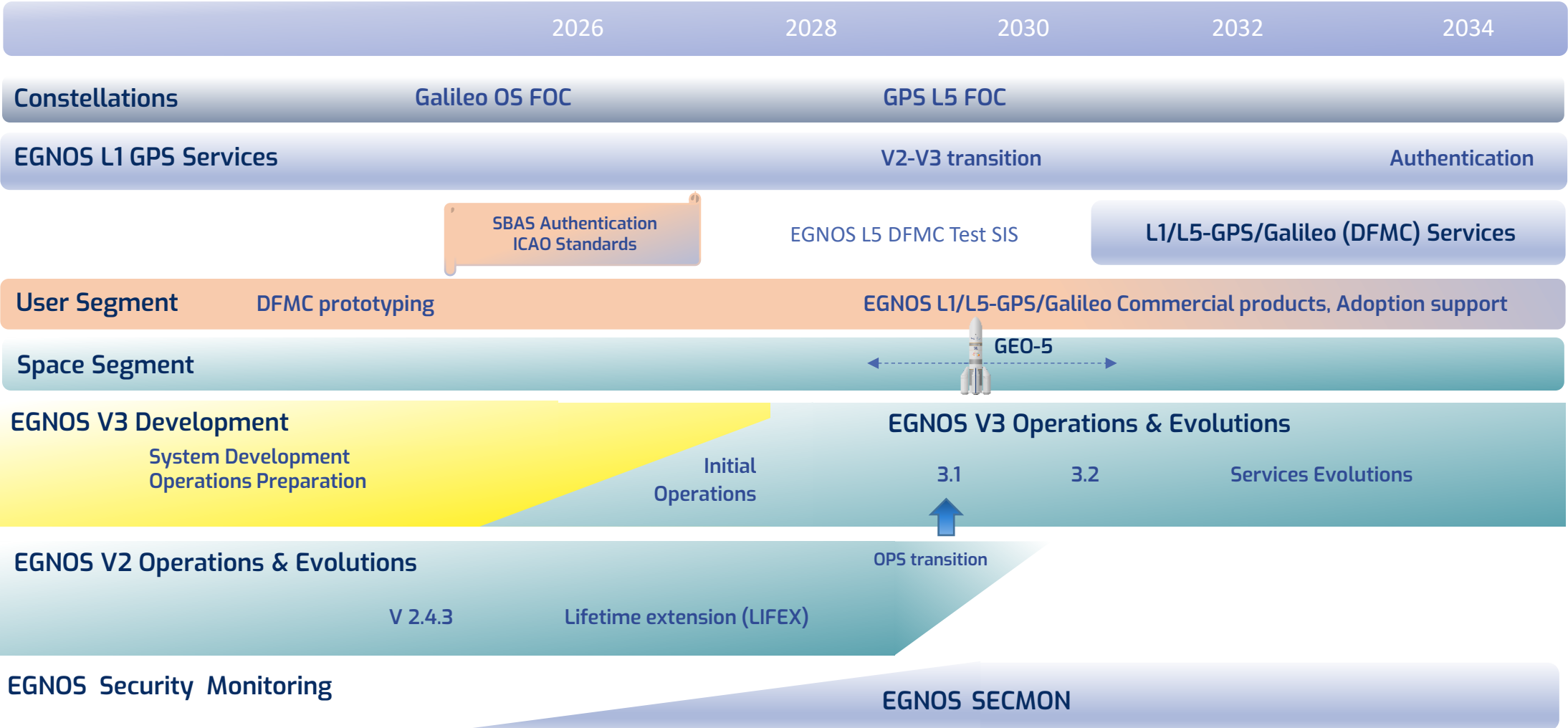
Non risk-adjusted schedule

Develop EGNOS service resilience

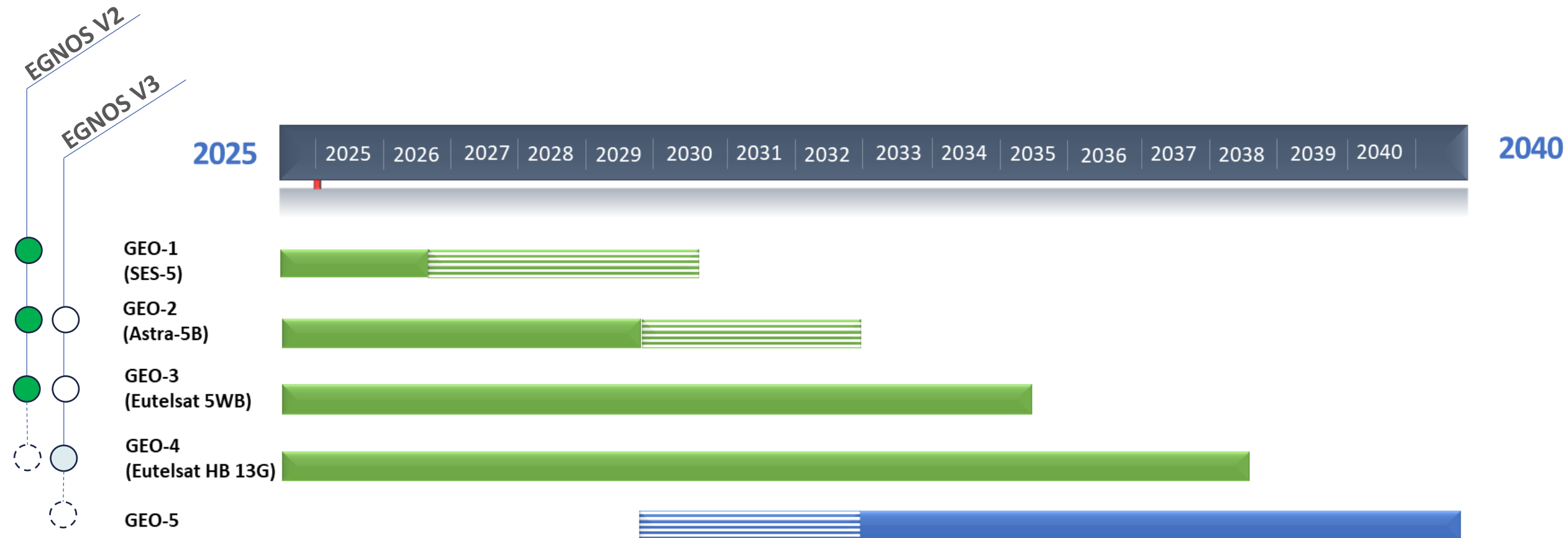
- EGNOS services delivered with **good resilience to 2025 solar peak space weather** thanks to EGNOS V2 improvements deployed in 2023
- EGNOS security **Risks & Threat Analyses update** conducted with Member States leading to revised security risks analysis in 2025
- Innovation partnership to develop the new EGNOS interface to internet users (SDAF), compliant with **cyber-security requirements**
- More than **40 new/upgraded hosting sites in 15 EU countries and neighborhood** prepared by EUSPA to host the deployment of the new generation, EGNOS V3 (with built-in security)
- Towards EGNOS V3: first **DFMC positioning** from test signal-in-space transmitted end 2024, **augmenting both GPS and Galileo**



EGNOS Exploitation Roadmap



EGNOS GEO roadmap

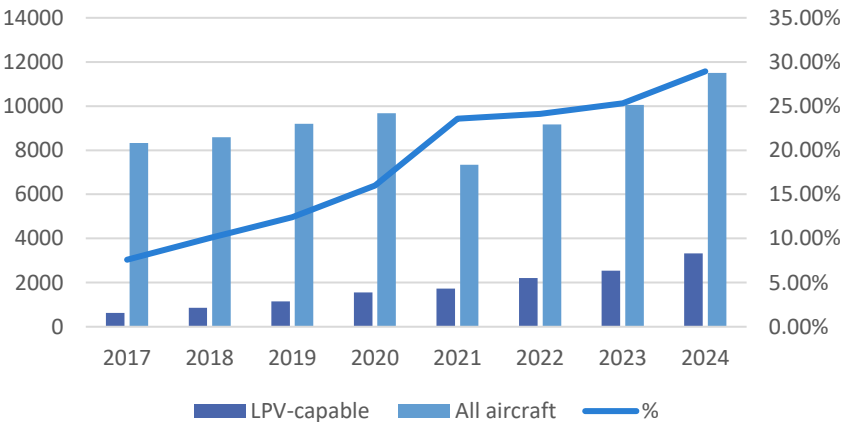


EGNOS adoption (Aviation): On board equipment

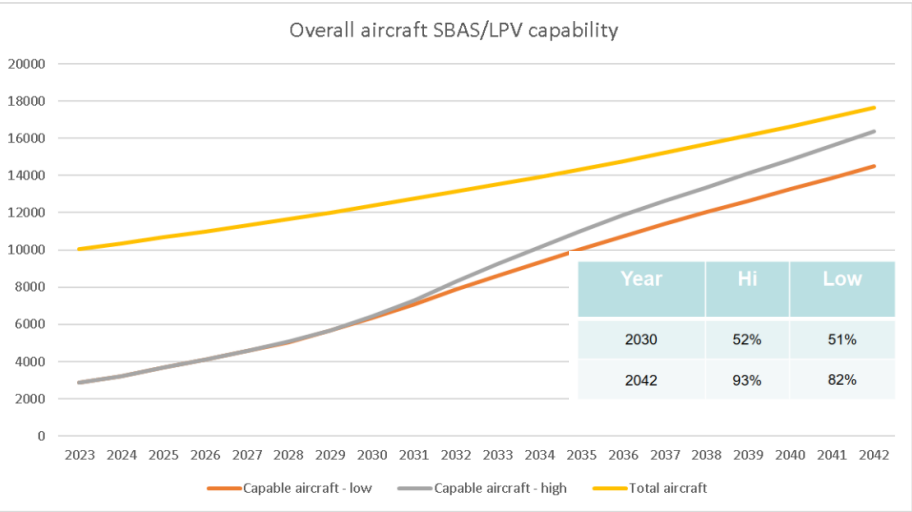


Current status (2024)

30% of EU fleet equipped with LPV



2042 Forecast (Source: Eurocontrol “Study on SBAS/LPV Capabilities in Europe 2023-2042”)



Commercial Aviation

140 SBAS solutions available
6.5% aircraft equipped with LPV

Regional Aviation

140 SBAS solutions available
19% aircraft equipped with LPV

Helicopters-VTOL

Over 45 SBAS solutions available
35.3% helicopters equipped with LPV

General Aviation

55% aircraft equipped with LPV

Business Aviation

67% aircraft equipped with LPV
Over 235 SBAS solutions available

AIRBUS



AIRFRANCE



Airbus new fleet with SBAS: A220, A320, A330, A350, A 380
267 A320neo orders with SBAS from EU operators

New A320neo and A321neo with LPV ordered

10 B787 & 50 B777-800 with LPV (EUSPA Grant)

9 ATR72 equipped with LPV (EUSPA Grant)

15 B737-800 and 10 B737-400 equipped with LPV (EUSPA Grant)

LPV essential in HEMS
Low Visibility operations (EUSPA Grants)

SAMVA - SBAS Adoption on Multi-copter VTOL Aircraft (EUSPA Grant)

EGNOS services perspectives

Extensions and new capabilities

- Extension to neighbourhood and Africa
- Authentication

Aviation: Primary means of navigation in 2030+

- Better availability (99.9%), more resilience, EU autonomy (with Galileo)
- New Airspace users (helicopters, small aerodromes, drones, ...)

Maritime

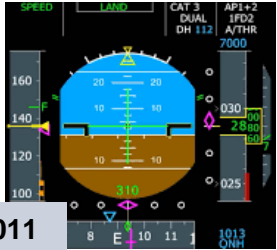
- Towards autonomous vessels navigation and zero-emissions shipping
- Not only EGNOS: end to end solutions using HAS/OSNMA and Copernicus

Rail

- Making ERTMS accessible on all lines
- New services under preparation, addressing the challenge of Rail safety standards



Agriculture since 2009



Aviation since 2011



Maritime in 2024



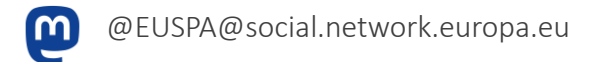
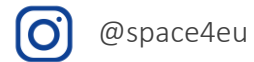
Rail in preparation



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