



# EGNOS Programme Update

EU Space Week - Prague



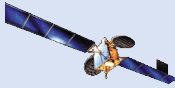
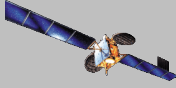






Jean-Marc Piéplu

5 October 2022



# EGNOS Operational System configuration

October 2022

<b>SPACE</b>	<b>SERVICE BROADCAST*</b>				<b>TEST / BACK-UP</b>		<b>TEST</b>					
	<b>GEO-1: SES-5</b> <b>PRN-136</b> 		<b>GEO-2: ASTRA-5B</b> <b>PRN-123</b> 		<b>Inmarsat 4F2</b> <b>PRN-126</b> 		<b>GEO-3: E5WB</b> <b>PRN-121</b> 					
<b>GROUND</b>	SYSTEM RELEASE 2.4.2-A – YSR-5 since May 2022											
												
	Redu-1 OP		Betzdorf-1 OP		Redu-2 OP		Betzdorf-2 OP		Borum-1 Test		Fucino Test	
	NLES											
	MCC CIAMPINO			MCC TORREJON			SC TORREJON			OCC TOULOUSE		
	CPF + CCF					ASQF			PACF			
	Abu Simbel	Azores Isl.	Agadir	Aalborg	Alexandria	Athens	Berlin	Canaries Isl.	Cork	Catania		
	Djerba	Egilsstadir	Glasgow	Golbasi	Gavle	Hartebeeshoek	Haifa	Jan Mayen	Kirkeness			
	Lappeenranta	La Palma	Lisbon	Svalbard	Madeira	Malaga	Moncton	Nouakchott	Paris	Palma de M.		
	Reykjavik	Roma	Santiago de C.	Sofia	Swanwick	Toulouse	Trondheim	Tromso	Warsaw	Zurich		
RIMS: 39 RIMS in Operations												

# New EGNOS Service Provision Phase



- July 2022: up to 10 years contract signed by EUSPA with ESSP
- New phase of the EGNOS service provision including:
  - (i) the delivery of EGNOS Open and Safety of Life services and contribution to EDAS (and future maritime) service provision based on EGNOS V2;
  - (ii) the management of the transition from EGNOS V2 to EGNOS V3;
  - (iii) the delivery of the EGNOS Open and Safety of services based on EGNOS V3, once available, extended to:
    - Dual Frequency Multi Constellation services
    - European Neighborhood Policy South (ENP-S) countries and Ukraine;
  - (iv) the decommissioning of the EGNOS V2 infrastructure
  - (v) Security enhancements and accreditation

# EGNOS V2&V3 System Release Plan

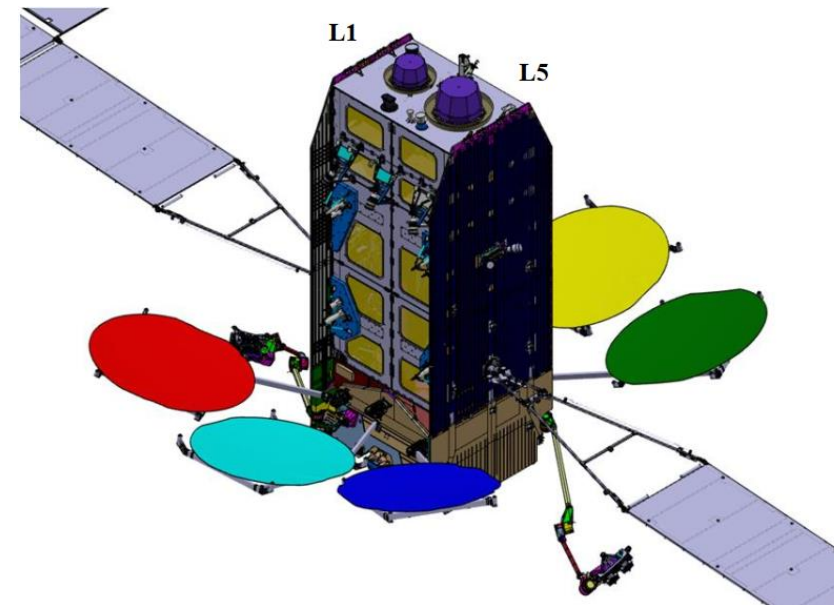
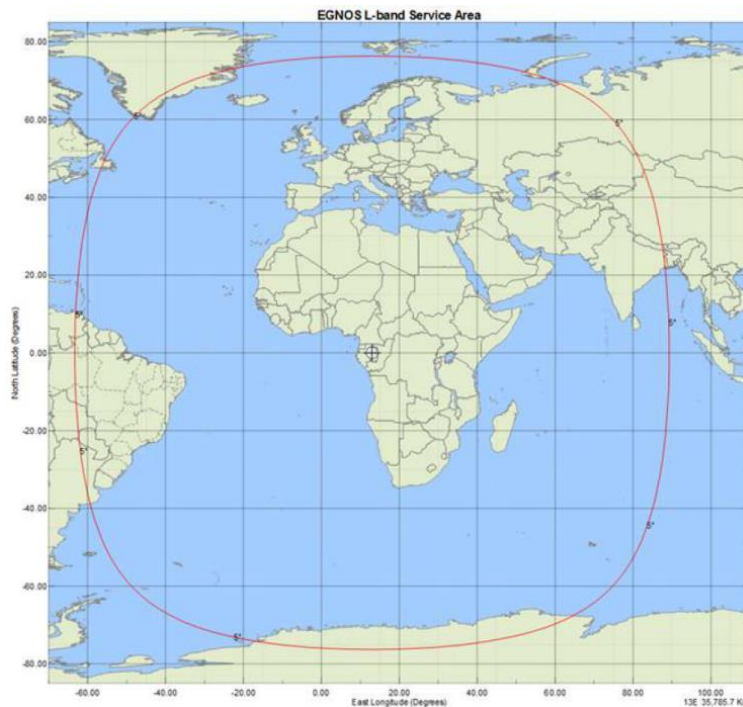


V2 Releases	V242-B	V243	LIFEX 1
Key Features	<ul style="list-style-type: none"> <li>• RIMS-C obsolescence</li> <li>• New RIMS site: Kuusamo</li> <li>• Ionospheric algos robustness</li> <li>• INM4F2 increased inclination</li> <li>• Security enhancements</li> </ul>	<ul style="list-style-type: none"> <li>• NLES G2 obsolescence</li> <li>• Introduction of GEO3 in V2 OPS</li> <li>• Security enhancements</li> </ul>	<ul style="list-style-type: none"> <li>• NLES G2 obsolescence for GEO-2</li> <li>• Security enhancements</li> </ul>
Planned entry in operations	Q4 2023 <i>ON-GOING CDR-2</i>	Q4 2024 <i>ON-GOING CDR-1</i>	2026

V3 Releases	V3.1	V3.2
Key Features	<ul style="list-style-type: none"> <li>• Legacy L1 services with improved performance over full EU + NW</li> <li>• Messages change: MT-27 to MT-28 transition</li> <li>• Full renewal of all sub-systems</li> <li>• Built-in security design</li> <li>• Integrate secured V3 sites</li> <li>• Integrate GEO-4</li> </ul>	<ul style="list-style-type: none"> <li>• DFMC L5 services (L1-L5 dual-Frequency, GPS-Galileo)</li> <li>• Coverage extension (Iceland, South&amp;East neighborhood)</li> </ul>
Planned entry in operations	2027 <i>ON-GOING CDR-1</i>	2028

# GEO-4

- SBAS L1/L5 payload (from ADS) hosted within Eutelsat HotBird 13G
- Uplinks from Caniçal (Portugal) and Cagliari (Italy) teleports
- Launch date: Nov. 2022





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