



EGNOS Programme Update

EGNOS Workshop – Rome, 24-25 Sept. 2019

Jean-Marc Piéplu – EGNOS Services Programme Manager



EGNOS Operational System Configuration

September 2019

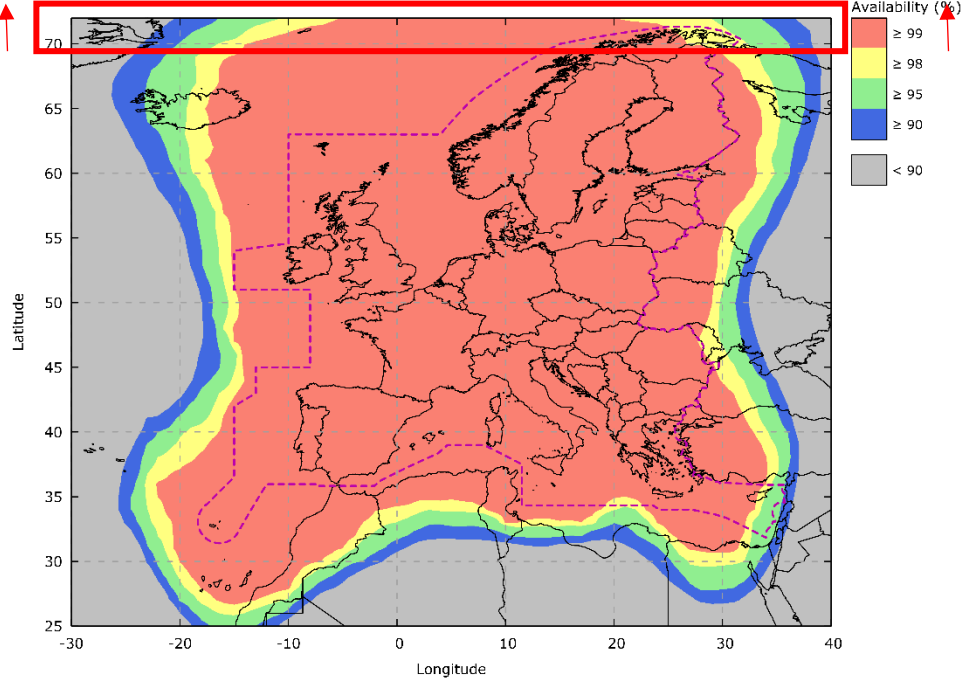


SPACE	SERVICE BROADCAST				TEST / BACK-UP									
	SES-5 PRN-136 		ASTRA-5B PRN-123 		Inmarsat 4F2 PRN-126 		E5WB Launch 30 Sept 2019 PRN-121							
GROUND	SYSTEM RELEASE 2.4.1N-YSR4-PSS1 since February 2019													
		Redu-1 OP		Betzdorf-1 OP		Redu-2 OP		Betzdorf-2 OP		Burum-1 Test		Fucino Test		
	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	Kourou				
	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, 1 RIMS in Test													

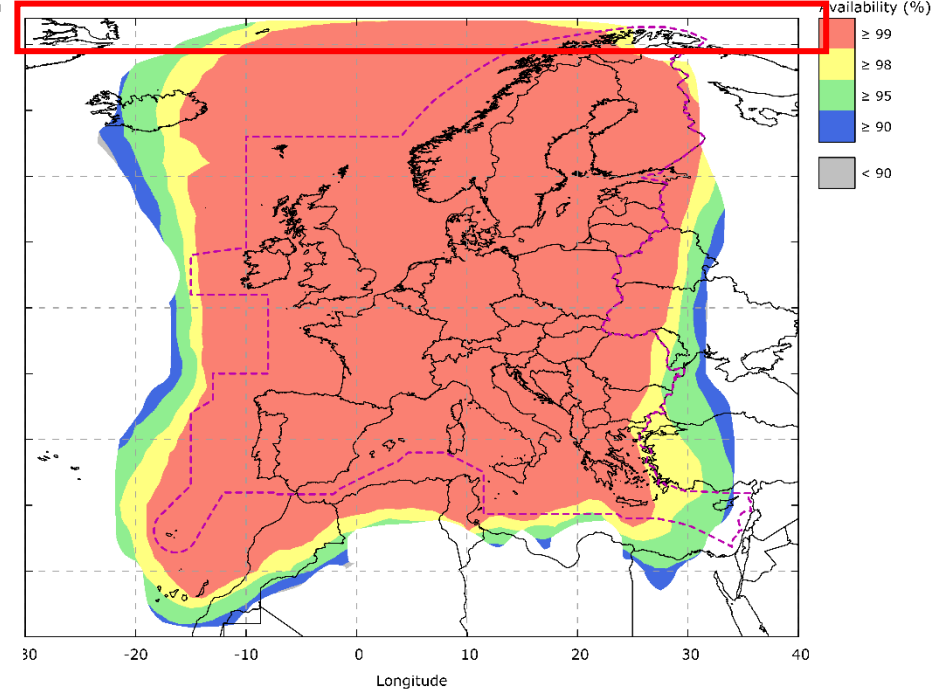
EGNOS SoL Service coverage – SDD 3.3

Publication
March '19

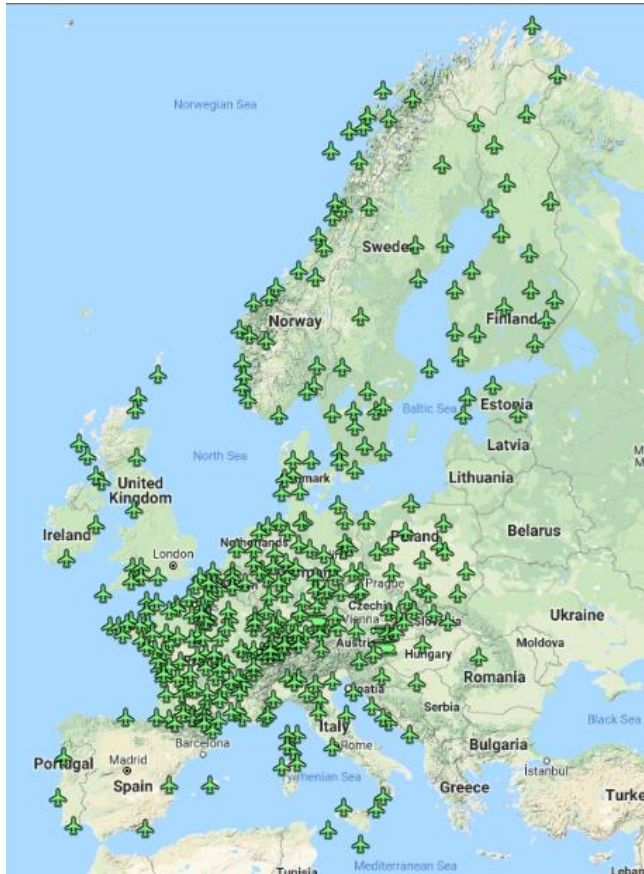
APV-I Availability Map



LPV200 Availability Map



EGNOS based approaches



646 EGNOS based operational approaches in 338 airports

328 LPV
214 LPV200
104 EGNOS based Baro

+ 3 PinS Helicopter procedures

51% of Instrument Runway Ends in Europe

PBN Implementing Regulation 2018/1048 (18 July 2018)

→ 66 % (2020) → 100 % (2024)

EGNOS Programme Roadmap



2020

2022

2024

2026

2028

Constellations

Galileo FOC

GPS L5 FOC

EGNOS L1 Services

← EU coverage extensions →

MT-28 transition

EGNOS L5 DFMC Test SIS

EGNOS L5 DFMC Services

L1 User Segment

Adoption support

DFMC User Segment

Prototyping

SBAS DFMC
MOPS & SARPS

Commercial products, adoption support

EGNOS V3 Development

System Development
New GEO
Operations Preparation

EGNOS V3 Operations & Evolutions

ESR 3.1

ESR 3.2

Services Evolutions

Initial
Operations

OPS transition

EGNOS V2 Operations & Evolutions

ESR 2.4.1

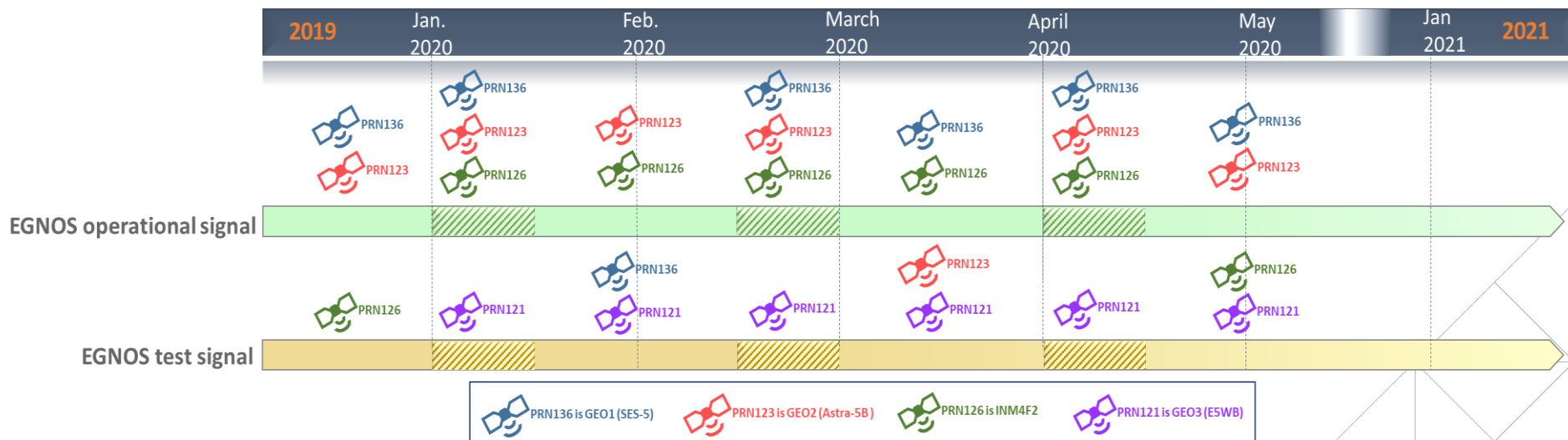
ESR 2.4.2A

ESR 2.4.2B

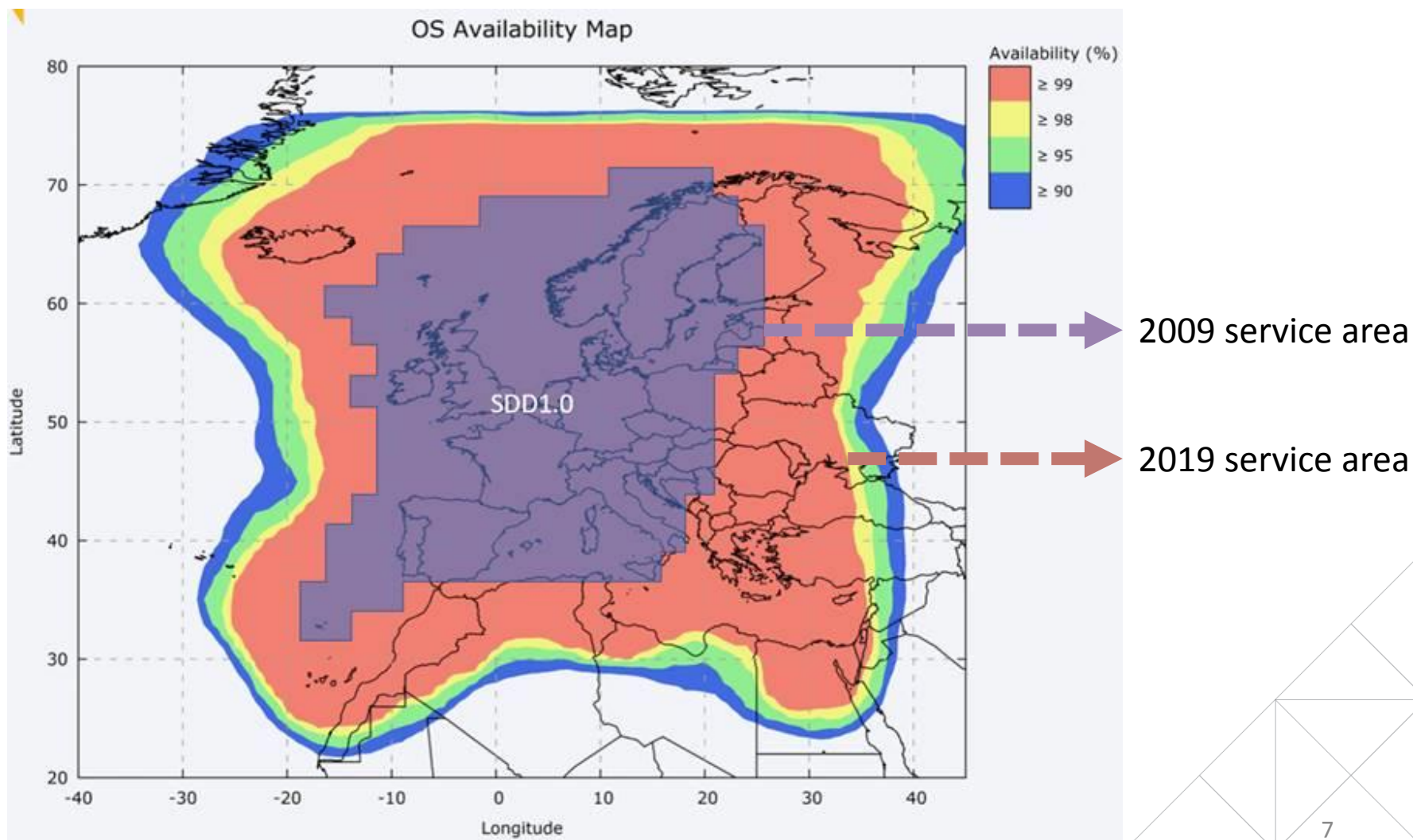
EGNOS GEO roadmap



- Current configuration:
 - **PRN136 (GEO-1)** and **PRN123 (GEO-2)** broadcast EGNOS operational signal.
 - **PRN126 (INM4F2)** in test
- New: **GEO-3** launch 30/9 (**PRN121**), used to develop and test EGNOS V3.
- GEOs will be swapped repeatedly from 2020 to 2023, with Service Notices and communications published beforehand on EGNOS website.



EGNOS Open Service: 10 years



Thank you

Linking space to user needs



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Navigation



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