

EGNOS Program Update

EGNOS Service Provision Workshop
Warsaw
27 September 2016







EGNOS Operational configuration

Space Segment:

- 2 Operational GEOs:
 - Inmarsat 3F2 (PRN-120)
 - SES-5 (PRN-136)
- 1 GEO in Test/Back-up: Inmarsat 4F2 (PRN-126)
- 1 GEO in deployment: ASTRA-5B (PRN-123)

<u>Ground Segment</u>: System Release **2.4.1M – YSR1-PSS1** deployed in Sept 2016 to correct "Moon Ephemeris Anomaly":

- Known SW anomaly, reclassified as Safety Critical in June 2016
- Next occurrence in Sept. and Oct. 2016
- Decided in July 2016 to develop a corrective system release
- Fast-track system correction, qualification and deployment achieved in less than 2 months (including EASA consultation)

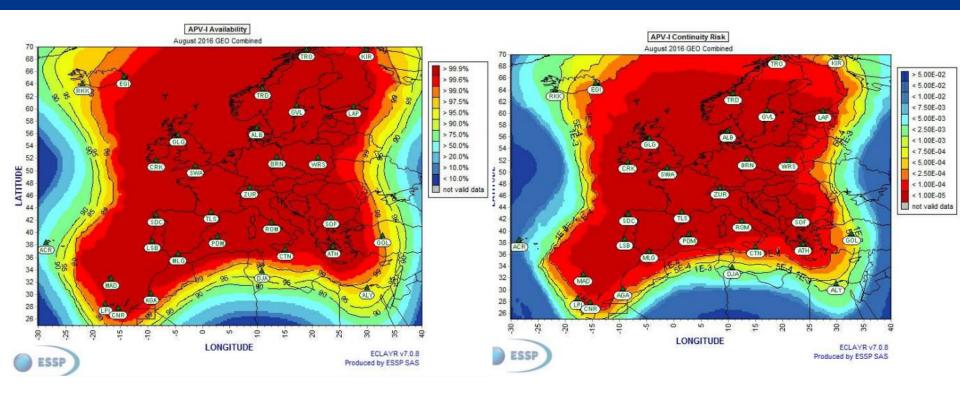








Service Performance – August 2016 APV-I availability and continuity



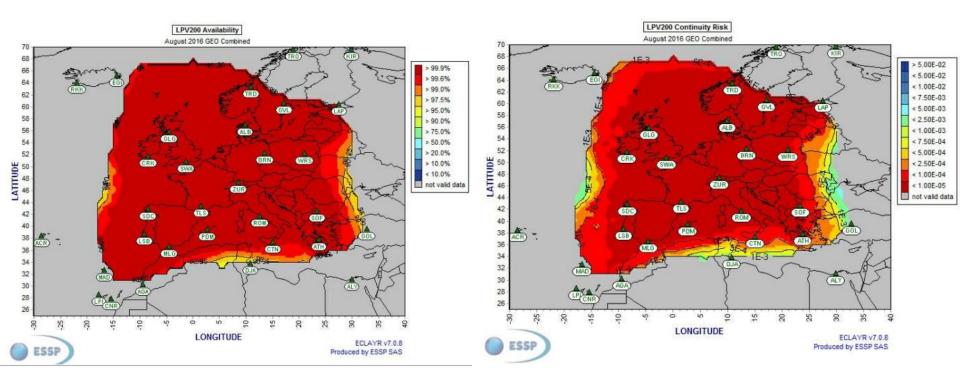








Service Performance – August 2016 LPV-200 availability and continuity



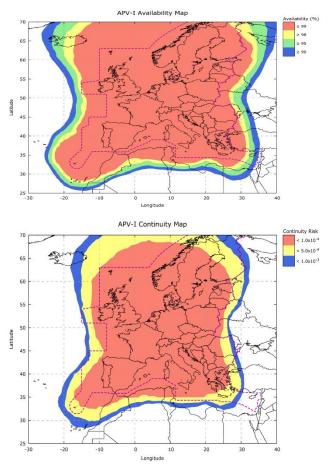


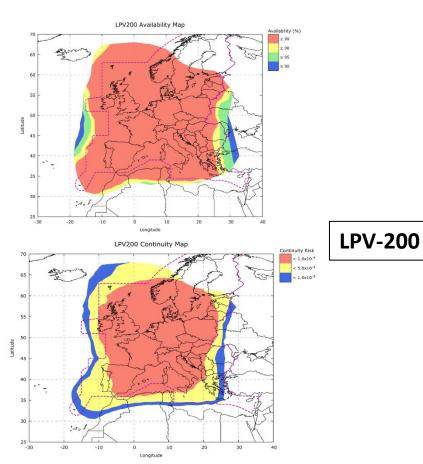






Updated Sol Service Definition Maps







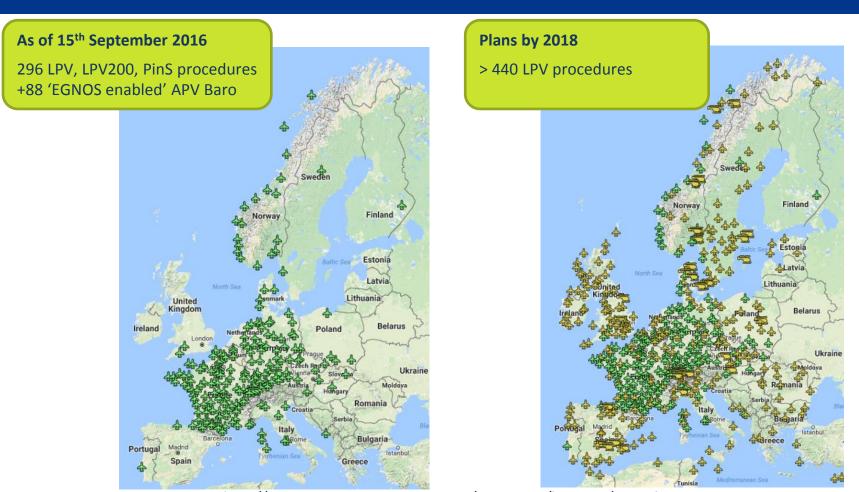
APV-I







LPV procedures in Europe













Operational System Releases Plan - 2017-21

MAJOR Releases	241N				242	
Minor Releases		241N YSR2	241N YSR3	241N YSR4		242 YSR
Entry in Operations	Q1-2017	Q3-2017	Q2-2018	Q1-2019	End 2020	Q2-2021
Main features	- GEO-2	Anomalies resolutionOperability improvement	 RIMS Haifa 72°N Anomalies resolution Operability improvement 	- Anomalies resolution	- Obsolescence resolution	- Anomalies resolution









EGNOS V3 - Status

- Programmatics:
 - Following 2015/1183 Commission Decision on EGNOS V3 implementation:
 - GSA has started with ESA the EGNOS V3 acquisition process
 - EC-GSA Delegation Agreement revision in 2016 defines new tasks:
 - EGNOS V3 Initial Operations
 - Study EGNOS V3 extension to Africa
- On-going main procurement actions:
 - DFMC Aviation prototype receiver for flight tests
 - GEO-3 Navigation Payload services
 - EGNOS V3 System Phase C/D (through ESA)
- Standardisation preparation:
 - DFMC Definition Doc. and SBAS L5 ICD developed by IWG to be released end '16
 - Initiated: ICAO SARPS and EUROCAE/RTCA MOPS preparation









THANK YOU







