



# EGNOS Programme Update

EGNOS Service Provision Workshop  
Athens  
3 October 2017



European  
Global Navigation  
Satellite Systems  
Agency















Precise navigation,  
powered by Europe



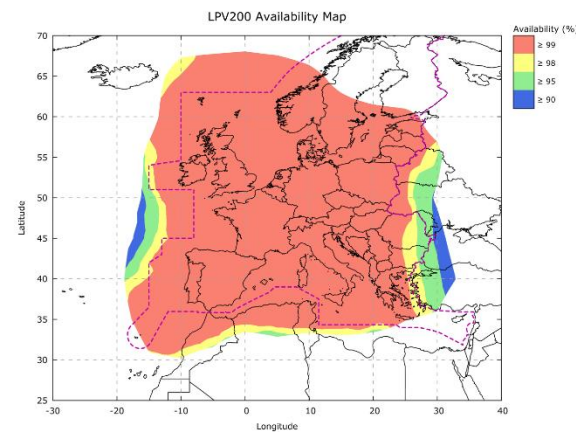
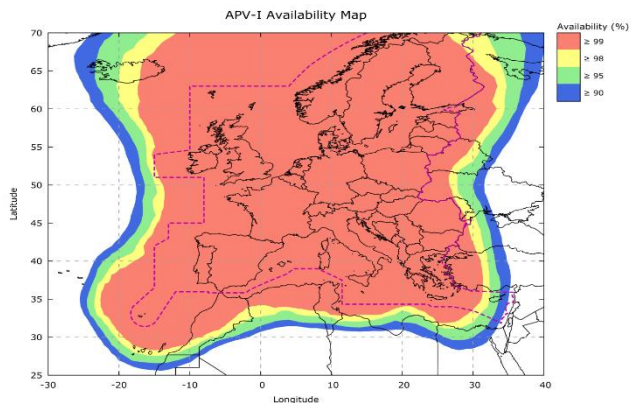
# EGNOS Operational configuration

October 2017

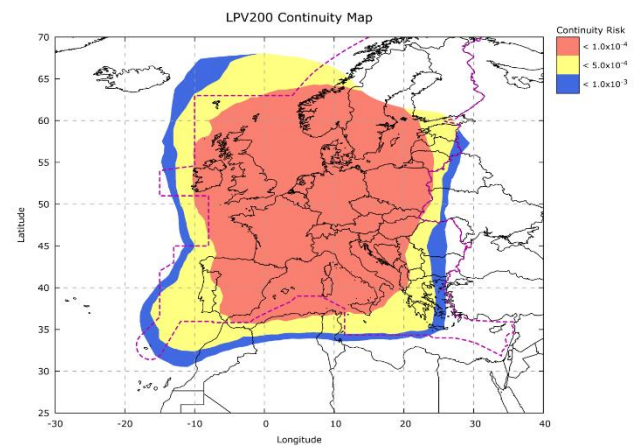
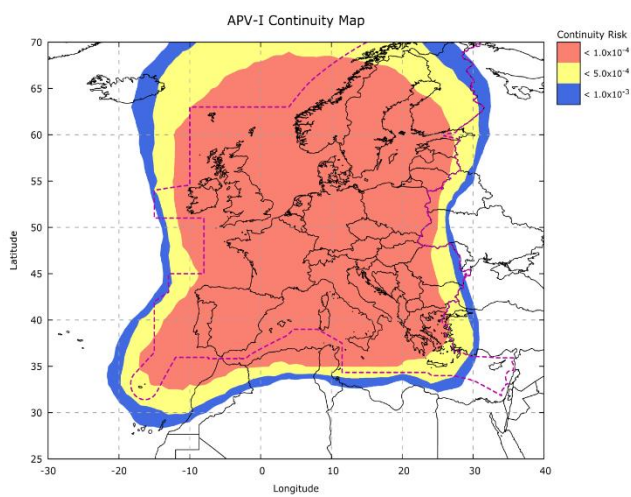
<b>SPACE</b>	<b>SERVICE BROADCAST</b>					<b>TEST / BACK-UP</b>														
	<b>Inmarsat 3F2</b> <b>PRN-120</b> 		<b>ASTRA-5B</b> <b>PRN-123</b> 			<b>Inmarsat 4F2</b> <b>PRN-126</b> 		<b>SES-5</b> <b>PRN-136</b> 												
<b>GROUND</b>	<b>SYSTEM RELEASE 2.4.1N-YSR2</b> since 14 June 2017																			
	 <b>Aussaguel OP</b>		 <b>Borum-A OP</b>		 <b>Redu-2 OP</b>		 <b>Betzdorf-2 OP</b>		 <b>Borum-1 Test</b>		 <b>Fucino Test</b>		 <b>Redu-1 Test</b>		 <b>Betzdorf-1 Test</b>					
	<b>NLES</b>																			
	<b>MCC CIAMPINO</b>				<b>MCC TORREJON</b>				<b>SC TORREJON</b>				<b>OCC TOULOUSE</b>							
	<b>CPF + CCF</b>						<b>ASQF</b>				<b>PACF</b>									
	<b>Abu Simbel</b>	<b>Azores Isl.</b>	<b>Agadir</b>	<b>Aalborg</b>	<b>Alexandria</b>	<b>Athens</b>	<b>Berlin</b>	<b>Canaries Isl.</b>	<b>Cork</b>	<b>Catania</b>	<b>Djerba</b>	<b>Egilsstadir</b>	<b>Glasgow</b>	<b>Golbasi</b>	<b>Gavle</b>	<b>Hartebeeshoek</b>	<b>Haifa</b>	<b>Jan Mayen</b>	<b>Kirkeness</b>	<b>Kourou</b>
	<b>Lappeenranta</b>	<b>La Palma</b>	<b>Lisbon</b>	<b>Svalbard</b>	<b>Madeira</b>	<b>Malaga</b>	<b>Moncton</b>	<b>Nouakchott</b>	<b>Paris</b>	<b>Palma de M.</b>	<b>Reykjavik</b>	<b>Roma</b>	<b>Santiago de C.</b>	<b>Sofia</b>	<b>Swanwick</b>	<b>Toulouse</b>	<b>Trondheim</b>	<b>Tromso</b>	<b>Warsaw</b>	<b>Zurich</b>
	<b>RIMS: 38 RIMS in Operations, 2 RIMS in Test</b>																			

# SoL Service Definition Maps

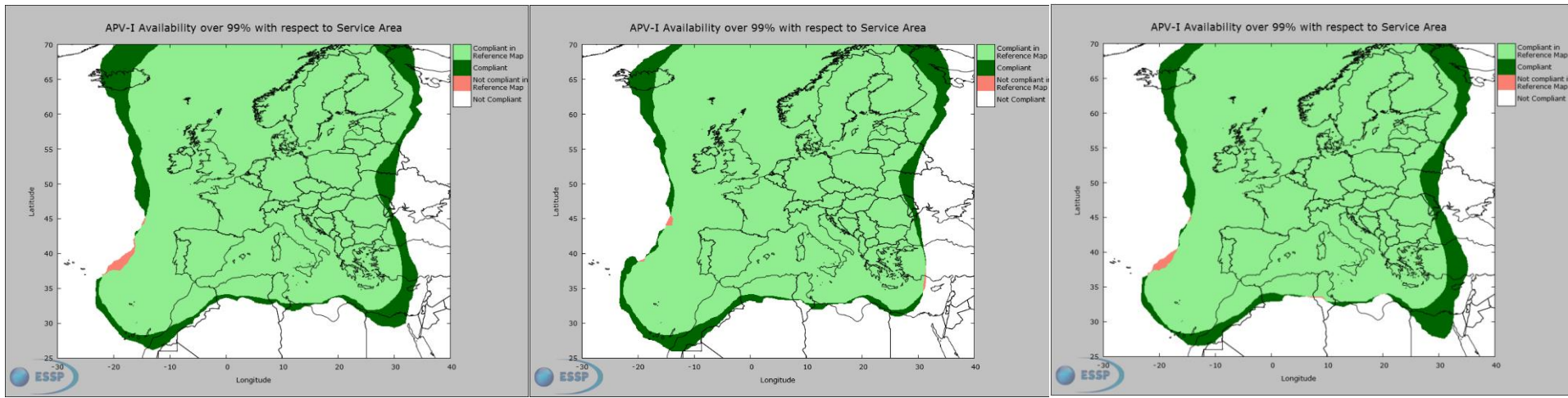
**APV-I**



**LPV-200**



# Delivered performances (APV-1 Availability)



June 2017

July 2017

August 2017

- Service delivered beyond SDD service area
- Service delivered as per SDD service area
- Service less available than per SDD service area

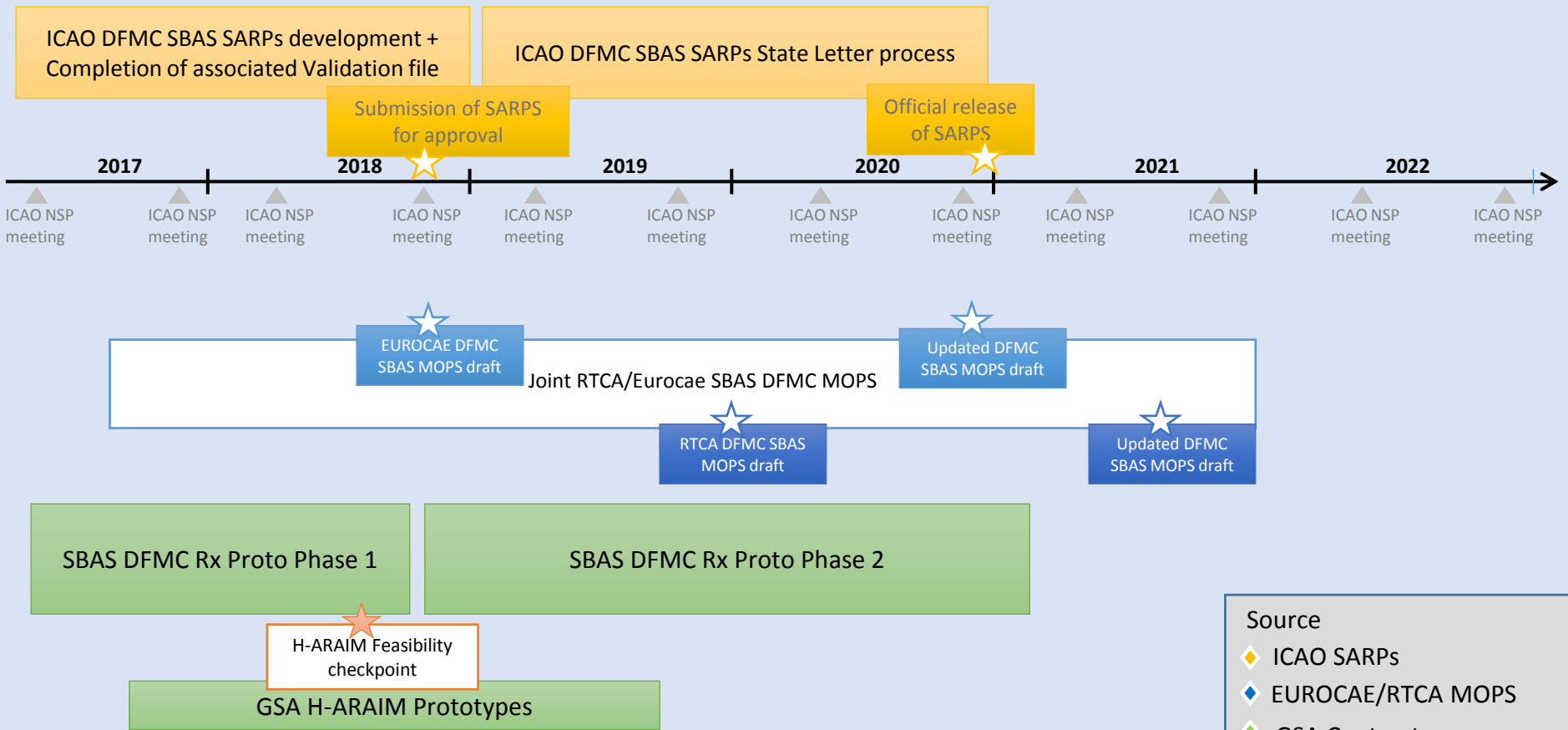
# Operational System Releases Plan – 2017-21

MAJOR (ESA)				242-I	242-A		242-B
Minor (ESSP)	241N YSR2	241N YSR3	241N YSR4			242 YSR TBC	
Qualification	Feb-2017	Q4-2017	Q1-2018	Q4-2018	Q2-2020	TBC	2021
Entry in Ops	June 2017	Q3-2018	Q1-2019	Q3-2019	2021	TBC	2022
Main features	<ul style="list-style-type: none"> <li>- SW updates</li> <li>- Operability improvement</li> </ul>	<ul style="list-style-type: none"> <li>- RIMS Haifa</li> <li>- 72°N</li> <li>- SW updates</li> <li>- Operability improvement</li> </ul>	<ul style="list-style-type: none"> <li>- SW updates (GPS week roll-over)</li> </ul>	<ul style="list-style-type: none"> <li>- NLES obso resolution for Inm. 4F2</li> </ul>	<ul style="list-style-type: none"> <li>- CPF Obso. resolution</li> </ul>	<ul style="list-style-type: none"> <li>- SW updates</li> </ul>	<ul style="list-style-type: none"> <li>- <i>RIMS C obsolesc. resolution,</i></li> <li>- <i>RIMS Kiev, Aqaba, Kuusamo</i></li> <li>- <i>Improved CPF algos robustness</i></li> </ul>

# EGNOS V3 - Status

- Programmatics:
  - 2015/1183 Commission Decision setting EGNOS V3 technical specifications
  - 2017/1406 Commission Decision setting EGNOS V3 sites location
- Infrastructure development:
  - GEO-3 Navigation Payload services: E5WB planned in 2019
  - Sites upgrades: almost all site surveyed, civil work starts in 2018
  - EGNOS V3 System Phase C/D (through ESA): on-going procurement
- Standardisation preparation:
  - DFMC Aviation receiver prototype under development
  - ICAO SARPS and EUROCAE/RTCA MOPS in preparation for end-2018

# DFMC SBAS Standardisation Workplan



THANK YOU

