



European
Global Navigation
Satellite Systems
Agency



NAVIGATION SOLUTIONS
POWERED BY EUROPE

EU GNSS - State of Play in Space Security Strategies: Space Assets in an Evolving Environment

ESPI Autumn Conference

GSA Executive Director, Carlo des Dorides

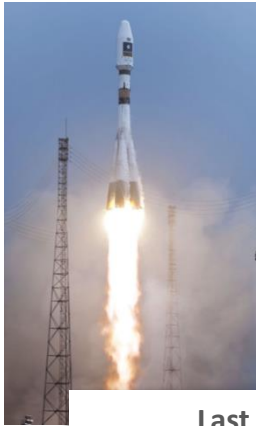
Vienna, 27 September 2018

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1. Galileo Service Provision



Last Galileo launch:
25th July
4 satellites launched by Ariane 5



Over 400M enabled smart phones:

SAMSUNG



iPhone X
Say hello to the future.

iPhone 8
A new generation of iPhone.

3

bq



"made in EU" first enabled smartphone



Huawei. Enhanced positioning with Galileo.

HUAWEI P10 | P10 Plus



Mi8: the first E1/E5 dual frequency bringing "professional grade" accuracy in a consumer device

Providing enhanced performance, the Mi 8 offers users better positioning in urban environments

2. PRS service provision and Security Monitoring



- SIS provision through GSOp
 - Operations of the Galileo system
 - Service performance levels as from Galileo Service Definition Documents
- PRS user segment development
 - First pre-operational PRS receivers
 - Definition of PRS-related technologies
- PRS pilot projects
 - 3 parallel projects for PRS field testing involving 18 Member States
 - Coordination by the GSA
- GSMC operations
 - Security Monitoring of Galileo
 - Enabling user to access the PRS service



3. Security for EGNOS



- EGNOS security is planned to evolve from V2 and V3 as a continuum, ensuring continuous service provision
- Security for EGNOS V2
 - V2 Service Provider certified by EASA based on the Single European Sky (SES) regulation, including security provisions
- Security for EGNOS V3
 - For V3 the Service Provider will also be certified by EASA
 - EGNOS V3 system, currently under development, is safety & security co-engineered
 - EGNOS V3 will also be subject to a Security Accreditation process by the EU GNSS Security Accreditation Board (SAB)



4. Security Accreditation



- Security accreditation is an enabler of the GNSS Programmes
- The Security Accreditation Board (SAB) for EU GNSS is an independent body vested within the GSA, comprising the Member States
- The SAB issues:
 - Approval of satellite launches
 - the authorisation to operate the systems in their different configurations and for the various services
 - the authorisation to operate the ground stations.



5. New space regulation proposal



- Commission proposal for single regulation for whole EU space programme (Galileo & EGNOS, Copernicus, GOVSATCOM, SSA) for €16B
- Evolution of GSA into EU Agency for the Space Programme with new tasks for market development, **security accreditation** and possibly other tasks

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European Commission - Press release

EU budget: A €16 billion Space Programme to boost EU space leadership beyond 2020

Brussels, 6 June 2018

For the next long-term EU budget 2021-2027, the Commission is proposing to devote €16 billion to help maintain and further enhance the EU's leadership in space.