

EGNOS Programme Update



European Commission **Pieter De Smet, European Commission** ICTP Conference, Trieste, 1 December, 2014





REGULATION (EU) No 1285/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 11 December 2013

on the implementation and exploitation of European satellite navigation systems and repealing Council Regulation (EC) No 876/2002 and Regulation (EC) No 683/2008 of the European Parliament and of the Council

- ✓ A stable 7 years perspective
- ✓ A subtantial budget
- ✓ A new governance scheme driven by exploitation

2014-2020

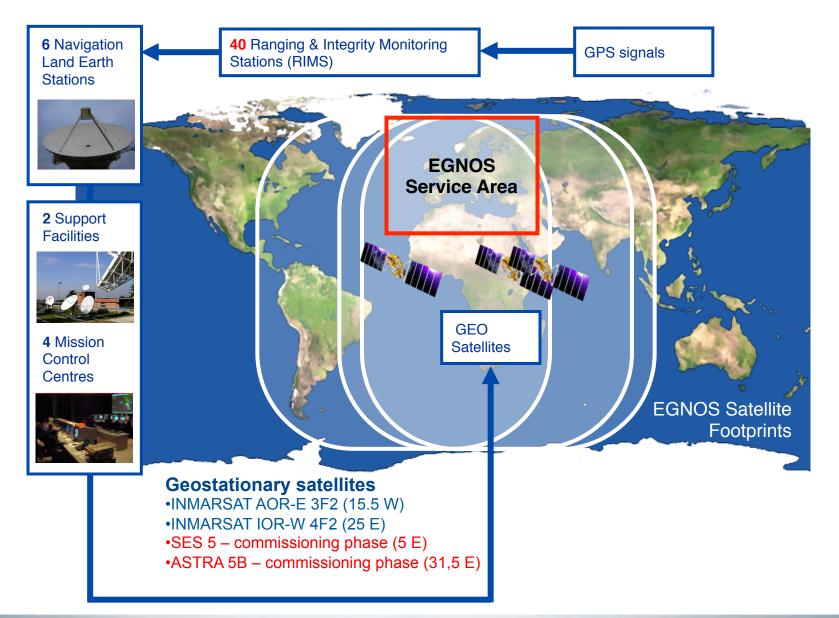
□ 1,930 B€ for Galileo Deployment

- **□** 3 B€ for Galileo Exploitation
- □ 1,580 B€ EGNOS Exploitation





Navigation solutions powered by Europe





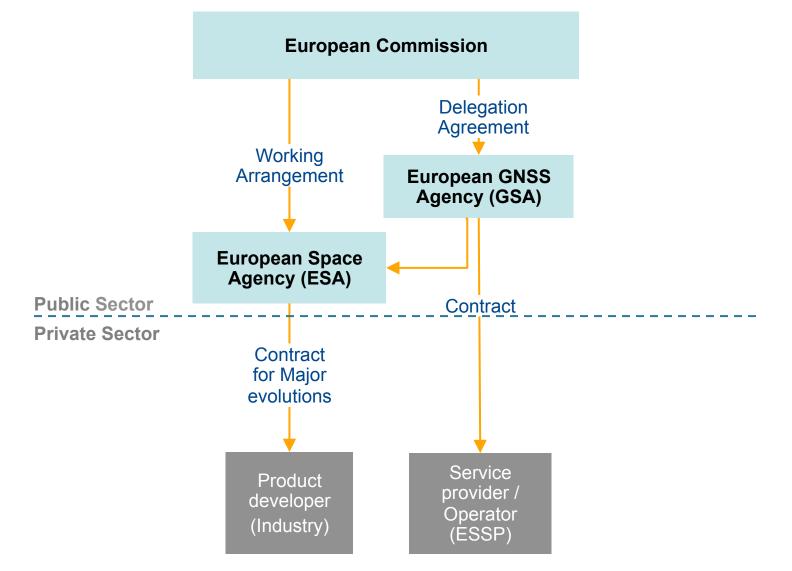
EGNOS will deliver its services on a long-term basis (>20 years)

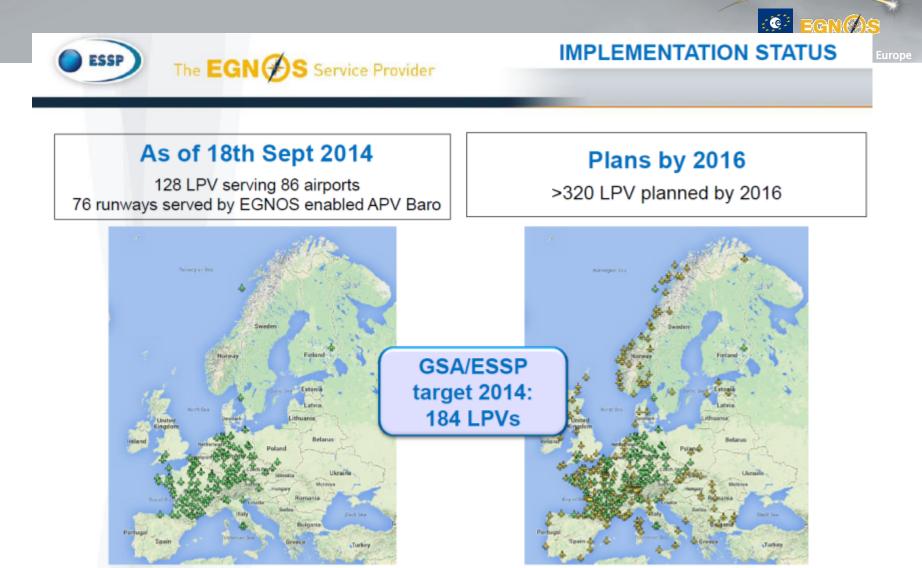
Service	Characteristics	Service Status	
Open Service	accuracy ~1m, free	available since October 2009	4-100-111H - 40-111
Safety of Life Service	accuracy ~1m, compliant to aviation standards	Available since March 2011	
EDAS	accuracy <1m, corrections are provided by terrestrial networks	experimental service since 2008; official service made available in 2012	

(EDAS: EGNOS Data Access Service)

EGNOS – Organisation and contractual frameworks

GALILEO ECINÓS





Check link: http://egnos-user-support.essp-sas.eu/egnos_ops/lpv_map/map.php

7-8/10/2014

EGNOS Service Provision Workshop 2014

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(APV Baro: Approach Procedure with Barometric Vertical guidance. LPV: Localizer Performance with Vertical guidance)



Other examples of increasing uptake of EGNOS

- The French air navigation service provider (DSNA) plans to modernise and rationalise their landing system infrastructure, taking into account that EGNOS-aided landing is equivalent to that of ILS Cat I
- The options list for the new Airbus A350 aircraft now includes EGNOSaided landing. Out of 750 firm orders, most have chosen this option
 - ★ Qatar Airlines expects to fly the first A350 commercial flight by early 2015 (using EGNOS when certified approaches are available)



EGNOS services will further improve over time

2014

★ Publication of new version of the Service Definition Documents for the OS, SoL and EDAS planned for end of 2014, beginning of 2015

Medium term

- ★ Full coverage of 28 EU Member States' territory (geographically located in Europe)
- ★ Implement LPV200 service level

Long term

- ★ EGNOS version with dual (L1/L5) frequencies, also to enable augmentation of Galileo and potentially other GNSS
- ★ Subject to conclusion of necessary contracts and agreements, extension of the EGNOS coverage to EU neighbouring countries and regions, including Africa.

(SoL: Safety of life, LPV: Localizer Performance with Vertical guidance, EDAS: EGNOS Data Access Service)

Questions?



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