

GALILEO overview

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GALILEO - what is it?

- A Global Navigation Satellite System financed, owned and controlled by the European Union
- The only civilian system under civilian control
- Provides accurate positioning and timing information
- Available to anyone with GALILEO enabled device – www.useGalileo.eu
- Currently used in combination with other satellite navigation systems
- Up to now 26 satellites latest launch of 4 satellites in July 2018 – Kourou, French Guiana



GALILEO IMPLEMENTATION: A STEP-WISE APPROACH

By 2020 Galileo will be:

- fully deployed
- adopted by the widest user communities
- a civilian infrastructure delivering robust 4 operational satellites and ground positioning and timing services with high degree of performances

Initial Services Provision Initial services for OS, SAR, PRS, and demonstrator for CS

In-Orbit Validation

segment

2013

2016

Full Operational Capability Full services, 30 satellites

2020



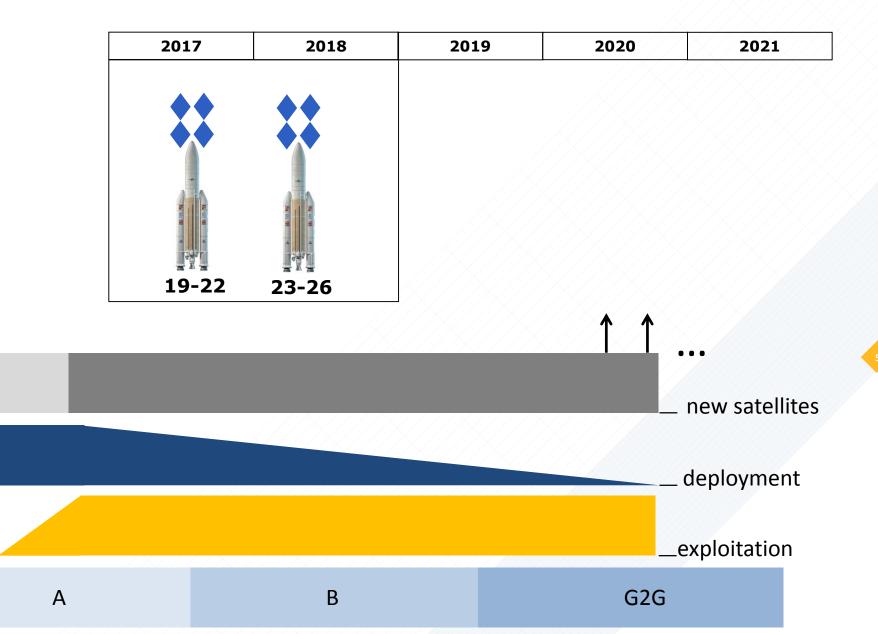
GIOVE A/B 2 test satellites 2005/2008

Galileo System Testbed v1 Validation of critical algorithms 2003





GALILEO NEXT STEPS

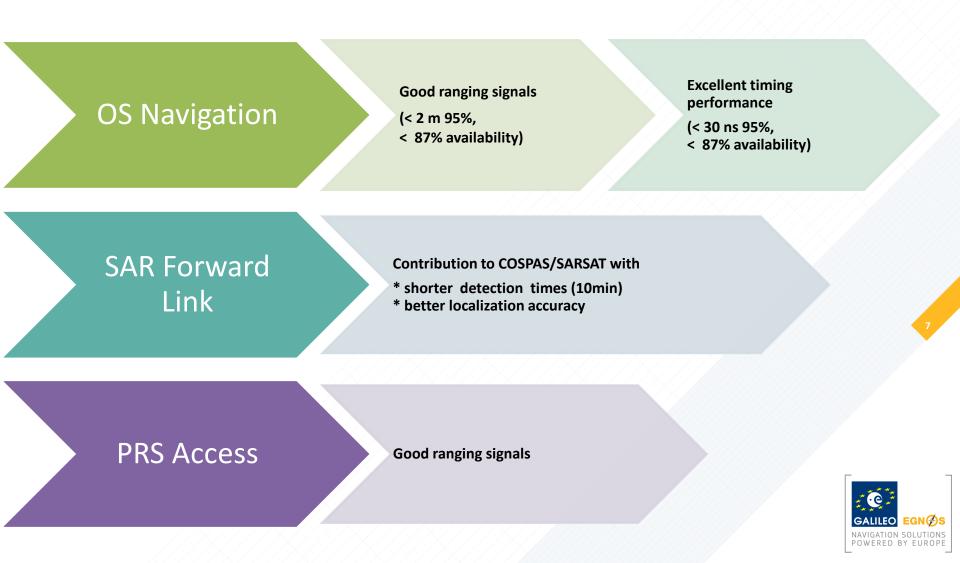


THE SERVICES

Open Service (OS)	Freely accessible service for positioning, navigation and timing	
Public Regulated Service (PRS)	Encrypted service designed for greater robustness and higher availability	
Search and Rescue Service (SAR)	Assists locating people in distress and confirms that help is on the way	
Commercial Service (CS)	Delivers authentication and high accuracy services for commercial applications	min



GALILEO INITIAL SERVICES PERFORMANCE LEVELS



APPLICATIONS





eCall

- Legally binding since April 2018 for all new car and light duty vehicles undergoing typeapproval in the EU
- In case of serious accident automatic dial of European emergency number
- Provides European emergency services with exact location esablished with GNSS – to be compatible with Galileo



Where can companies find information on developing services using GALILEO?

- European GNSS Service Center in Madrid
- www.gsc-europa.eu
 - One-stop shop for Galileo customers
 - Interface between
 Galileo system and
 communities of users
 of the open and
 commercial services
- European GNSS Agency

 budget to develop
 new chipsets and
 receivers and innovative
 applications with
 GALILEO data

www.gsa.europa.eu



EGNSS in the **SPACE STRATEGY** FOR EUROPE

- Space Strategy for Europe adopted in October 2016
- Four strategic goals:

MAXIMISING THE BENEFITS OF SPACE FOR SOCIETY AND THE EU ECONOMY

FOSTERING A GLOBALLY COMPETITIVE AND INNOVATIVE EUROPEAN SPACE SECTOR

REINFORCING EUROPE'S AUTONOMY IN ACCESSING AND USING SPACE IN A SECURE AND SAFE ENVIRONMENT

STRENGTHENING EUROPE'S ROLE AS A GLOBAL ACTOR AND PROMOTING INTERNATIONAL COOPERATION







THANK YOU

http://ec.europa.eu/growth/sectors/space /galileo/