FACT SHEET

What is EGNOS?
The European Geostationary Navigation Overlay Service (EGNOS) is Europe’s regional satellite-based augmentation system (SBAS) used to improve the performance of global navigation satellite systems, such as GPS and Galileo. EGNOS collects data on current GPS signal accuracy and soon on Galileo, provides users with necessary corrections to improve position information accuracy and informs users about current system reliability. Information is passed to users via EGNOS payloads on 2 different geostationary satellites.

Who uses EGNOS and what does it offer?
EGNOS is present across several sectors, providing safety of life navigation services to aviation, maritime, rail and land-based users over most of Europe. The EGNOS Open Service (available since 2009), is used for agriculture and mapping application. The EGNOS Safety-of-Life Service, essential for aviation and maritime application, has been available since 2011. The EGNOS Data Access Service (declared in 2012) allows users to access EGNOS via the internet.

Since 2009, the EGNOS services availability area over Europe has doubled, leading to increased use and important development of the EGNOS markets including:

- First LPV 200 implemented at Charles de Gaulle Airport, flown by ATR 42-600, Dassault Falcon 2000 aircraft and Airbus A350.
- First LPV 200 implemented at Pau Pyrenees, in France, allowing equipped airplanes to fly down to 254 feet before deciding to land.
- First EGNOS based helicopter approach procedure to a hospital is implemented.
- 98% of mapping and GIS receiver models are EGNOS compatible.
- 97% of new tractors in Europe using GNSS are equipped with EGNOS (the preferred low-cost entry technology for precision farming in Europe).
- 636 EGNOS based approach procedures implemented in over 400 airports in 24 countries.
- 6 European countries are using EGNOS as a source of DGPS corrections in their IALA beacon or AIS stations to contribute to merchant shipping safety following IALA Guidelines.
- 90% of maritime receiver manufacturers have a product that is SBAS-enabled.
- More than 40,000 flights per month are EGNOS capable.

For more information visit: https://www.euspa.europa.eu/european-space/egnos/what-egnos

What is EUSPA?
The European Union Agency for the Space Programme (EUSPA) provides safe and secure European satellite navigation services, promotes the commercialization of Galileo, EGNOS, and Copernicus data and services and coordinates the EU’s forthcoming governmental satellite communications programme GOVSATCOM. EUSPA is responsible for the security accreditation of all the EU Space Programme components.

2011
First LPV implemented at Pau Pyrenees, in France, allowing equipped airplanes to fly down to 254 feet before deciding to land.

2015
First EGNOS based helicopter approach procedure to a hospital is implemented.

2016
First LPV 200 implemented at Charles de Gaulle Airport, flown by ATR 42-600, Dassault Falcon 2000 aircraft and Airbus A350.