

Open Service (OS)

What is the EGNOS Open Service?

The EGNOS¹ OS is a free and open service that provides consistent accuracy to your GNSS²-enabled device. This service works by correcting any positioning errors that may arise, providing consistency and accuracy to your GNSS device. It is used across a wide range of sectors and situations.

Launch:

The EGNOS OS was launched in 2009.



Sectors:

The Open Service is freely available to any user.



Purpose:

To enhance the performance of GNSS for general-purpose applications.



What does it do?



Improves positioning accuracy

Corrects errors affecting GNSS signals.



Mitigates errors

Addresses issues from satellite clocks, satellite positioning, and ionospheric effects.



Enhances signal integrity

Detects and prevents tracking of unhealthy or misleading signals.

Where can it be used?

EGNOS OS is used in various sectors, but mainly in:

Agriculture

Improves precision agriculture by providing more accurate and reliable location data for farming.

Mapping and surveying

Supports high-accuracy GNSS by improving positioning precision in real-time.

Outdoor recreation

Enables more accurate positioning for recreational activities, enhancing safety, navigation, and experience.

Fleet management

Aids fleet management systems by enhancing driver safety and route optimisation.

Mobile applications

Enhances GNSS on mobile devices, improving accuracy from 5 m to 1–2 m for maps, ride-hailing, and travel apps.

EUSPA's role

EUSPA maintains, promotes, and monitors the EGNOS OS, ensuring its compliance with performance standards and continuous support for users:

- **Promotes** the adoption of EGNOS OS across industries.
- **Ensures compliance** with service performance standards and [Service Definition Document](#) (SDD).
- Provides **user support** and **system updates**.

Facts and figures

1

Improves the accuracy of GNSS to within **1 – 2 metres** and is available 99% of the time.

2

Free, open-access service for users across Europe.

3

Mitigates common GNSS errors for improved reliability.

4

Widely compatible with standard GNSS receivers.

¹ EGNOS - European Geostationary Navigation Overlay Service

² GNSS - Global Navigation Satellite System

