METIS

EGNOS demonstrations in the Mediterranean Area

Exploiting EGNOS Commercial Service

METIS (MEdiTerranean Introduction of GNSS Services) implements EGNOS use in transport domains over the Euro-Mediterranean area, to prepare the market for Galileo. METIS proposes a **GNSS MEDA Regional Plan** to exploit EGNOS technologies and services in international freight cargo, civil aviation, rail and maritime.

Opportunities of EGNOS for the transport sector in the Euro-Mediterranean area rely not only on the signal coming from the satellite, but also on the distribution of EGNOS products via **EDAS** (EGNOS Data Access System).

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GSA

The METIS project is managed by the European GNSS Supervisory Authority (GSA) through Euro-MED GNSS 1 project

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What is the EGNOS Commercial Service

EGNOS Commercial Service (**CS**) is the service based on the use of EGNOS products disseminated by EDAS (**EGNOS Data Access System**). **EDAS** is a server that gets the raw data directly from the EGNOS system and distributes to Service Providers in real-time, within guaranteed delay, security and performance.

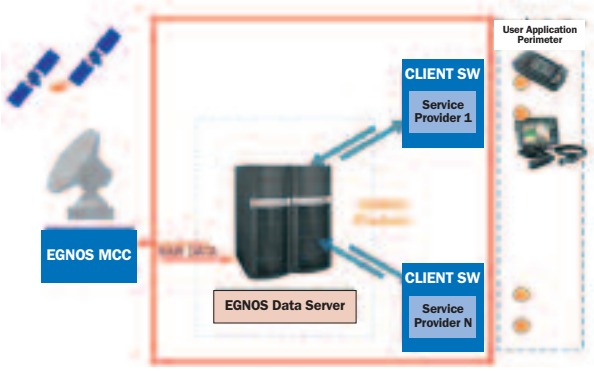
How to use EDAS

Service Providers can implement solutions to create different types of **value added services**, built on the processing and distribution of the EGNOS data, via different telecommunication means.
The service architecture is based on a connection between the Service Providers and EDAS to get the EGNOS data.

Services for the transport market

Service Providers can exploit EGNOS CS into a value for the final users, in various domains and applications. Such a value relies on a **"guaranteed positioning" and augmentation of availability.**

METIS identified opportunities for EGNOS CS in the Mediterranean area in the next decade.
Real life demonstrations proved technical feasibility and quantified benefits for transport applications requiring guaranteed tracking and tracing: rail, road, maritime and freight management.



Maritime
Train

EGNOS (European Geostationary Navigation Overlay Service) is a Satellite-Based Augmentation System (SBAS) that improves the accuracy of satellite navigation signals over Europe and the Mediterranean area.
EGNOS improves the accuracy of current GPS signal up to one metre and provides integrity information, making it suitable for applications requiring very accurate and guaranteed positioning.

EGNOS is designed to offer three services:
- The Open Service (OS), available since October 2009, suitable for most common applications;
- The Safety of Life (SoL) Service, to be available after certification in 2010, suitable for safety critical applications such as flying aircrafts or navigating ships through narrow channels;
- The Commercial Service (CS), currently under test until mid-2010, enabling specific applications for professional markets.

EGNOS