



# M E T I S

## EGNOS demonstrations in the Mediterranean Area



### **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.

METIS solution for the freight transport supports different architectures, EGNOS user terminals and telecommunication links, for providing services in Europe and across the Mediterranean area.

# METIS

## European GNSS

**EGNOS** and **GALILEO** are the two systems implementing the European GNSS (Global Navigation Satellite System).

**EGNOS** (European Geostationary Navigation Overlay Service) is the Europe's first venture into satellite navigation. It augments the US GPS, the military satellite navigation system currently operating, and makes it suitable for safety critical applications, such as flying aircraft or navigating ships through narrow channels. Moreover, it has been designed also to augment the GLONASS constellation. EGNOS will be fully operational in 2008. **GALILEO** will be Europe's own global navigation satellite system, providing a highly accurate, guaranteed positioning service under civilian control. It will also be inter-operable with GPS and GLONASS. GALILEO will be operational in 2013.

## What is METIS?

**METIS** (MEdiTerranean Introduction of GNSS Services) is a project launched by the European GNSS Supervisory Authority in the framework of the Euro-MED GNSS I Programme, to pave the way for GNSS (Global navigation Satellite Systems) services in the Mediterranean region.

## METIS GNSS Regional Plan

In two years, **METIS** implements a Regional Plan for the introduction of Satellite Navigation services in the MEDA area. It proposes a Euro-Med policy to facilitate the introduction of EGNOS towards GALILEO in the region.

To support the Plan, **METIS** runs demonstrations for validating EGNOS use and benefits in various application domains: **Civil Aviation, Maritime, Freight Transport, Rail, Road, Land, Personal and In-car mobility.**



## Satellite Navigation Services for freight transport

An EGNOS-enabled mobile device (ELSACOM) is installed on a cargo.

Positions and information are sent to the **TELESPAZIO Service Centre**, via a Globalstar Satellite communication link.

The Service Centre provides a Web application to end-users (INTERNATIONAL TRANSPORT TUNISIE and INTERPORTO BOLOGNA), allowing freight tracking & tracing during three operative shipping chains: **Italy-Tunisia, Italy-Algeria, France-Morocco.**

Asset remote localisation and reliable tracking enable better planning, optimisation of transport and reduced risks of lost.

**Today with EGNOS and tomorrow with GALILEO, satellite tracking & tracing services support the enhancement of shipment and quality of transport.**

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