

# Galileo

The European Programme for  
Global Navigation Services

## INSTANT

Infomobility services for safety-critical applications on land and sea based on integrated GNSS terminals to satisfy the needs of the 2004 Olympic cities.



**Supporting emergency and security services on land and sea through a clustered mobile architecture based on state-of-the-art GNSS and communication technology.**

### ✦ What is INSTANT?

INSTANT is a pilot project under the Growth thematic programme of the 5th Research Framework Programme of the European Union. Together with the Galilei study, it forms part of on-going research work for the Galileo programme. It is managed by the EU Directorate General for Energy and Transport.

INSTANT addresses sustainable mobility and intermodality and focuses on the management of large-scale events and emergency situations. In particular, it is targeting the 2004 Olympic Games as a case-study, and proposes safety-of-life applications in two different environments (sea and land) and in different land surroundings (urban, semi-urban).

Applications will make extensive use of up-to-date GNSS receivers in close integration with other emerging technologies such as geo-information, mobile satellite communications, personal digital assistants and mobile mapping software.

### ✦ Objectives

INSTANT will set up, validate and demonstrate three pilot projects based on the EGNOS System Test Bed, with a view to developing a pre-operational service. By doing so, it will:

- accelerate the uptake of Galileo by the transport sector by exploiting and demonstrating the improved performance provided by EGNOS in targeted applications;
- evaluate benefits and analyse economic viability from

synergies with appropriate infrastructures and services, both terrestrial and space-based.

### ✦ Applications

INSTANT is focusing on safety-of-life applications through three pilot projects in Rome and Athens:

- *Fire brigades*. This project will run in Rome testing land (urban) environment aspects such as route guidance, pedestrian resource management and vehicle resource management. It is a unique opportunity because fire brigades in Rome do not currently use satellite navigation technology;
- *Maritime*. This project will run in Athens testing maritime applications such as confined-waters navigation, regulated marine navigation, marine surveillance and personal outdoor recreation (marine leisure vessels, yachts). It will profit from the maritime opportunities and operational needs in Athens (in the Aegean Sea and the Wider Saronic Gulf) arising from the 2004 Olympic Games;
- *Safety-related applications*. This project will run in a semi-urban environment of Athens testing applications such as lone-worker protection, tracking of high-value and dangerous goods, and route guidance, emergency breakdown, theft and recovery of Light Commercial Vehicles. It will focus on safety-related land mobility operational needs in Athens and the wider Attica area arising from the 2004 Olympic Games.

