

INSTANT-Olympic

"INfomobility Services for SafeTy-critical Applications on Land and Sea based on the use of iNtegrated GNSS Terminals for needs of OLYMPIC cities"



INSTANT-Olympic is a pilot project under the Growth thematic programme of the 5th Research Framework Programme of the European Union, under responsibility of Galileo Joint Undertaking (GJU). It forms part of on-going research work for the GALILEO programme.

INSTANT focuses on the management of large-scale events and Emergency situations addressing sustainable mobility and intermodality. INSTANT services for Security management and Maritime activities were demonstrated at 2004 Athens Olympic Games. The demonstration activities for Emergency services, held in collaboration with Italian Fire Brigades, supported operative situations in Florence and Rome.

The main innovative aspect of INSTANT is the development of an architecture that supports dynamic operations with quality of robustness, fault-tolerance and scalability.

INSTANT consortium designs and integrates components for a mobile User Terminal (PDA/Tablet) incorporating EGNOS, GSM/GPRS/UMTS cellular communications, with high level of usability in the targeted applications. The Service Control Centre is capable to support Emergency and Security operations management with a Geographic Information System and suitable DBMS to support Location-Based Services both to control emergencies as well as to manage mobile equipments under critical constraints.

More details and info at the INSTANT web site: <http://www.instant-olympic.com>

The coordinator **NEXT Ingegneria dei Sistemi S.p.A.** (I) is an SME that provides leading-edge systems and services in the space, defence and telecom markets.

ALGOSYSTEMS S.A. (GR) activities are in Information Technology, telecom and networking system integration, automation and surveillance systems, multi-service networks and wide-area environmental management.

TERRAFIX Ltd. (UK) is a leading company in mobile data automatic vehicle location and Geographic Information System mapping systems worldwide, and provides systems with unique integration of navigation, communications and display technology.

LEAT Srl (I) provides systems in avionics and aeronautics and is associated with the Aeronautical & Defense Industries Association and a partner of ENAV, the Italian air traffic service provider.

Users are the maritime operator **VERNICOS Yachts**(GR), the security operator **KARAKITSOS Security** (GR) and the **Italian National Fire Brigade (Rome and Florence)**.



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PILOT 1: Fire Brigades, Florence Emergency Services



Results:

- Full support of Emergency management and operations, during all the operative phases, by a cluster of User Terminals and Mobile Control Center remotely connected to a Service Control Center.
- Demonstration of the improved performances of EGNOS vis-à-vis GPS in real environments, accelerating the uptake of GALILEO;
- Fleet Management and punctual tracing of vehicles equipped with communication (GSM/GPRS/WiFi/SatCom) and EGNOS positioning devices, using (Open)GIS in collaboration with high-resolution Mapping and routing services (IKONOS and Teleatlas);
- Implementation of an infrastructure capable to provide scalable and robust Infomobility services, to reduce intervention time and to improve the efficiency of operations, increasing the safety for operators and users;

