Global Navigation Satellite Systems (GNSS) have a significant potential in the development of Intelligent Transport Systems (ITS) and mobility services.

The road sector is estimated to represent more than 50% of the GNSS market and 75% when we consider the personal mobility services.

Current lack of a certification process underpinned by agreed standards is impeding the realisation of the expected benefits.

The high influence of operational and environmental conditions brings complexity to the definition and assessment of GNSS performances.

Standardisation activities have been initiated in Europe on this topic but many scientific issues are still open and require a common roadmap.

Motivation

- Research: extracting maximum value from the main projects that address the use of GNSS in the road sector.
- Networking: linking the research community and the main stakeholders to standardisation bodies to create core competence of GNSS positioning in Europe.
- Training: organizing a high-level modular education and training programme, with the aim of raising the ITS stakeholders’ awareness and understanding of GNSS-related issues.
- Supporting: European-related legislation activities (ITS Action Plan, Digital, Tachograph, e-Call...).

Objectives

- To develop a framework for the definition of service levels for GNSS based positioning terminals used in Intelligent Transportation Systems (ITS) and personal mobility applications, and the associated examination framework for certification purposes.
- To promote high-level educational and training programmes in the fields of GNSS, GNSS-based ITS and personal mobility applications.
- To encourage the use of GNSS in general, and EGNOS and Galileo in particular, in the ITS and personal mobility domains to facilitate their common long-term development and deployment in Europe.

Activities

SaPPART organisation

SaPPART - TU 1302 is a COST Action from the TUD (Transport and Urban Development) Domain.
Added Value for Partners

SaPPART is a network of experts in ITS and GNSS, and offers to its members a direct access to:

- valuable bibliographical resources including selected scientific references,
- up-to-date information on European standardization and certification activities,
- software applications for the assessment of GNSS performance in operational conditions,
- reference datasets,
- test facilities and vehicles equipped with high-end navigation systems.

Members of SaPPART are invited to exciting networking activities including workshops, training schools and special sessions organized during Europeans ITS & GNSS.

Join the Action

- COST Actions are open to European and partner countries.
- If the topic is relevant to you and your organisation, you are welcome to play a part in SaPPART activity.
- Each eligible country can apply for a maximum of 2 seats on the management committee. However, participation in the working groups is open.
- Workshops and training schools will be organized from 2014 to 2017. You are invited to participate in these events.

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