

Objective ICT-2007.6.1: ICT for Intelligent Vehicles and Mobility Services

Target outcome

- a) ICT research in **Intelligent Vehicle Systems** will offer a higher degree of accident prevention through improved driver-warning strategies, hazard detection, actuation and sensing including sensor fusion and sensor networks, as well as the integration of independent safety systems and their interaction with the driver. Key targets are increased performance, reliable and secure operation as well as making vehicles "cleaner". New generation advanced driver assistance systems (ADAS) will increase vehicles' intelligence and contribute to safer and more efficient driving.
- b) Research in **Mobility Services for People** aims at ICT for user-centred 'always-on' mobility services based on location-aware enhanced personalised services such as context-aware personal communications and always-available information access.
- c) ICT research in **Mobility Services for Goods** targets safer, more secure, efficient and environment-friendly ICT-based freight transport solutions in both urban and long-haul operations, supporting the most suitable selection of modes for consignments and safeguarding them along the transport chain as requested by Commission's Communication on freight logistics¹. Closer cooperation between actors in the field is a key issue.

Research under b) and c) will integrate a number of advanced technologies, e.g. low-cost GNSS receivers, software defined radio technologies, high-accuracy hybrid positioning systems combined with dynamic navigation services, semantic web and multi-agent technologies, as well as technologies such as RFID and smart tags in combination with advanced sensors, communication and mobility management systems. Projects will also address issues such as the development of business models for public private partnerships.

For a-c) specific needs of trucks, buses, two-wheelers and fleets, e.g. in public transport and logistics operations, will be addressed covering also the associated needs of other transport modes.

- d) **Coordination and Support Actions** aim at the preparation of standards, agreed specifications and the ramping up of Field Operational Tests.

Expected impact

- World leadership of Europe's industry in the area of Intelligent Vehicle Systems and expansion to new emerging markets.
- Improved safety, efficiency and competitiveness of transport systems across Europe, with strong contribution to growth and jobs and towards the objective of reducing road fatalities by 50% in EU-25 by 2010.
- New targets for efficiency and environmental friendliness in Europe's transport sector through new mobility services.
- Higher mobility of people and goods across different transport modes through the provision of accessible and reliable information services.

Funding schemes

¹ COM(2006) 336 final of 28 June 2006: "Freight Logistics in Europe – key to sustainable mobility"

a): CP; b-c): CP, CSA; d): CSA

Indicative budget distribution

57 M€

- CP 54 M€ of which a minimum of 16 M€ for IP and a minimum of 22 M€ for STREP;
- CSA 3 M€

Call

FP7-ICT-2007-1