Registration Form

The ERSEC Final Workshop will take place at Unione Industriale di Torino – Sala Torino, located in Torino (Italy), Via Vincenzo Vela 17.

The participation is free of charge. To register please complete and submit the registration form to the Conference Bureau,
by fax (+39 011 4360679) or by e-mail (mailto:info@eicas.it).

The registration deadline is the **25 October 2011**.

_____
Last and First Name

_____
Organisation/Institution

_____
Address – City - Country

_____
Phone   Fax

_____
e-mail

I would like to attend the ERSEC Final Workshop:

_____
date/place/signature

We would like to inform users that EICAS Automazione S.p.A. will process all the data provided in accordance with the Italian law related to data protection (D.Lgs. 196/2003-Testo Unico sulla Privacy).

MESAP

EICAS Automazione S.p.A.
excellence and passion in automatic control design

I S M B
Istituto Superiore Mario Boella

M3 SYSTEMS

(hy)optoelectronica

ERSEC

Enhanced Road Safety by integrating Egnos-Galileo data with on-board Control system

Final Workshop

28 October 2011, h 9.30-16.00

Centro Congressi Unione Industriale di Torino
Via Vincenzo Vela 17, Torino
Sala Torino

ERSEC

www.ersecproject.eu

GSA

7 COOPERATION

Objective

Although things have gradually improved in recent years, the number of road fatalities is still much too high in the European Union (in 2009, road accidents killed over 30,000 people and injured more than 1.1 million). The new EU road safety guidelines would aim to cut European road deaths by 50% by 2020, what constitutes a serious collective undertaking to reduce the number of deaths rather than a legal requirement.

Nowadays many solutions exist for improving the safety on transport, many of them are already proven and available on the market, others are under development, others are still in phase of study and research. Such solutions span from ADAS (Advanced Driver Assistance Systems) to collision mitigation and avoidance systems. The analysis of the state-of-art is that nowadays the benefits and advantages offered by EGNOS/GNSS system do not appear yet fully exploited in active safety systems.

The workshop intends to present the research results of the **ERSEC "Enhanced Road safety by integrating Egnos-Galileo data with on-board Control system" Project**, a two-year project funded by the European Community in the Seventh Framework Programme (FP7) context and managed by the GNSS Supervisory Authority (GSA). ERSEC intends **to contribute a further step towards the goal to make vehicles safer**, by exploiting the benefits and advantages offered by the introduction of EGNOS/GNSS systems.

The main project outcome is presented, consisting in the **ERSEC measuring system** - to be used on board of vehicles - able to output the position on the road map of the equipped vehicle and of all the obstacles (such as other vehicles, peoples and any kind of fixed or mobile objects) around it with a measurement accuracy of the order of fraction of metre at a sampling rate of 100 Hz, based on an intelligent data fusion of the EGNOS/GNSS sensor positioning measurement, the Road-GIS digital local map data and the measurement data obtained from an instrument set installed on board of the vehicle, including vehicle dynamic sensors (tachometer and gyro) and environmental sensors (laser scanners).

The seminar is then the occasion to discuss with representatives of industries potential end-user of the ERSEC results the road-map for the introduction of the ERSEC innovation on the market, both in the field of active safety and in the field of Automated Guided Vehicles.

Programme

Registration: 09.00 - 09.30

09.30   **Welcome to participants**
MESAP

09.40   **Galileo and EGNOS for delivering public and private benefits**
Carmen Aguilera – GSA

10.00   **ERSEC Project: Enhanced Road Safety by integrating Egnos-Galileo data with on-board Control system**
Gabriella Caporaletti – EICAS Automazione S.p.A

10.20   **ERSEC intelligent data fusion algorithm**
Francesco Donati – EICAS Automazione S.p.A

10.40   **Benefits and limitations for EGNOS/EDAS and GALILEO**
Jerôme Soubielle - M3 Systems

11.00   *Coffee Break*

11.20   **Laser scanner equipments affordable for the automotive market**
Mihai Serbanescu - S.C. Optoelectronica 2001

11.40   **Digital maps: advantages and drawbacks of nowadays maps databases**
Fabrizio Dominici - Istituto Superiore Mario Boella

12.00   **ERSEC main results: experimental campaign description and demo session**
Alberto Stella, Raffaele Ricatto – EICAS Automazione S.p.A

13.00   *Networking lunch*

14.00   **From ADAS towards collision avoidance systems: the end-user perspective**
Filippo Cappadona - Pininfarina

14.30   **Latest developments on Driverless Vehicles**
Alberto Broggi, Paolo Grisleri - University of Parma-Vislab

15.00   **Round Table**
Moderator: Dario Scapaticci - MESAP
With representatives of industries and universities

16.00   **Conclusions**