



Identifying ITS Opportunities for the HA ITS Research Newsletter: November 2009

■ ITS RADAR INTERNATIONAL PROJECT

This project is providing intelligence for the Highways Agency on ITS developments in Europe and around the world. It is carried out by TRL and AECOM on behalf of the HA. The project summarises key information for decision makers and practitioners on activities related to Intelligent Transport Systems (ITS). The project covers specific areas of key interest to the HA.

Regular newsletters are being produced, covering information which is in the public domain. For more information about the project and the services provided, see the web site: www.itsradarinternational.info. To contact us and let us know what you would like this project to deliver please email us at: ITSRadarInternational@trl.co.uk

■ ABOUT ITS RESEARCH

The research projects covered in the European Research newsletters are mainly those which receive funding from the European Commission, through programmes such as the Seventh Framework Programme, EasyWay (implementing ITS on the Trans-European Network) and the e-Safety initiative. Updates on European ITS research projects aim to inform the Highways Agency about project progress and notify when significant milestones and deliverables are achieved. News of newly launched and forthcoming ITS projects are reported to keep the HA up to date with the latest research being carried out in Europe.

■ MEETINGS

Opportunity to attend EasyWay Annual Forum - ITS on the TERN

Source: [EasyWay](#)

The EasyWay annual forum will be held in Vienna on 17 – 19 November 2009 and is open to stakeholders with an interest in ITS on the Trans-European Road Network (TERN). There will be plenary meetings on EasyWay and the European perspective and on EasyWay and future cooperation. The following themes will be covered in technical sessions:

- Traffic Management Services on Trans-European Roads

- Europe-wide Traveller Information Services
- Freight, logistics and co-modality on Trans-European Roads
- VMS Harmonisation (Mare Nostrum)
- DATEX II
- Technological infrastructure for Trans-European Roads (ICT).

The programme is available from the [EasyWay web site](#).

HA recommended to attend

Call for Papers: IET Road Transport Information and Control Conference and the ITS United Kingdom Members' Conference

Source: [IET](#)

The call for papers to the 2010 RTIC conference (Road Transport Information and Control) has now been issued. The conference will be held in London in May 2010. Topics for which papers are invited include:

- Travel and traffic information
- Traffic control and management
- Transport systems
- Strategic perspective
- Environment.

The deadline for submitting abstracts is 30th November 2009. Highway managers, network operators and system suppliers are among the groups which are being encouraged to submit papers.

■ CALLS FOR PROPOSALS

No new calls for proposals to report.

■ HOT TOPICS

Intelligent vehicles to be tested across European roads

Source: www.trafficechnologytoday.com

Eight recently developed intelligent in-vehicle technologies will be tested as part of the European Field Operational Test on Active Safety Systems (euroFOT) project. The effect of driver assistance systems on safety, efficiency and driver comfort will be tested and will include technologies such as:

- Lateral and longitudinal vehicle control systems
- Warning systems on potential side and front end collisions
- Curve Speed warning systems
- Fuel efficiency advisor systems

This research project involves a consortium of 28 universities, research centres and other organisations, and is supported by funding from the European Commission's DG Information Society & Media. Starting in 2010,

1,000 vehicles from different European manufacturers, equipped with a range of high-tech in-vehicle systems, will be driven around Europe for approximately one year.

euroFOT is aimed at evaluating the performance and capabilities of the systems and Human machine interaction with navigation devices, as well as their impact on safety, efficiency, environment and driver experience.

ITS Radar International will continue to monitor EuroFOT

The CVIS Application Innovation Contest 2009 winners announced

Source: [ERTICO](#)

Winners of the CVIS Application Innovation Contest 2009 were announced during the 16th ITS World Congress in Stockholm. The CVIS application innovation contest, aimed to assess the ability of companies external to the project to develop CVIS-compliant services.

The first prize went to Halmstad University for a pedestrian safety system. The system is capable of recognising erratic driver behaviour on an approach to a junction and either notifies the pedestrian or changes the traffic signal phase. The system also notifies drivers of pedestrian presence at a nearby junction. Driver behaviour is compared to reference models implemented using a 'potential field' approach.

The second prize went to Lodgon for developing a Vehicle Social Networking (VSN) application. The application is a community service where the vehicle interacts with the local environment and the public internet, exchanging personal and location relevant information within a community of peers.

There were two third place prizes. One went to Ygomi/Connexis for the evolving vehicle assistant; the service aims at optimising the travel and mobility experience of a driver. The other went to the Cork Institute of Technologies (CIT) for applying agent technology to cooperative systems and the vehicular environment; the Commercial Vehicular Agent System (CVAS) is a framework which allows users in a vehicular environment to access location aware trust based services.

ITS Radar International will continue to monitor CVIS

UK ITS development and test facility given the go ahead

Source: [telematicsupdate.com](#)

innovITS – ADVANCE, a new UK ITS development and test facility is a result of a collaboration between innovITS, MIRA (Motor Industry Research Association) and TRL with funding support provided by Advantage West Midlands.

The new facility will provide an environment for ITS technologies to be tested and developed into commercial products. The new innovITS - ADVANCE centre will comprise a number of circuits offering the ability to replicate a wide range of real-world traffic scenarios - including, for example, complex urban multi-lane intersections and bi-directional flows - any of which may be subjected to numerous traffic control systems and strategies.

Each of the test circuits will be equipped with numerous telecommunications networks including GSM, GPRS and WiFi, and systems monitoring the precise positions of vehicles. All systems will be controllable in order to suit the particular requirements of each test so that new telematics-based innovations can be tested thoroughly in a number of potential operating environments that may be encountered in real-world application.

It is anticipated that the centre could be used to carry out projects on:

- collision avoidance and mitigation
- driver behaviour studies
- vulnerable road user detection
- road sign detection
- traffic management
- time/ distance position-based charging.

ITS Radar International will continue to monitor developments

Developing Electronic Vehicle Identification (EVI)

Source: [TNO](#)

TNO has developed an Electronic Vehicle Identification system in a project for the Dutch vehicle registration and license centre (RDW). The aim of the project was to develop a system that enabled remote and reliable communication of the vehicle's identifying parameters.

The EVI system contains multiple electronic identification tags that transmit the vehicle's identity and authenticity data. The advantage of this system over more traditional identification systems, such as ANPR, is the enhanced reliability and improved security. The electronic tag is attached to the vehicle's chassis in a way that enables it to be read remotely, while ensuring that it stops operating once removed.

Testing of the system revealed a 95 percent success rate in identifying those vehicles equipped with GPS loggers during trials.

■ PROJECTS

Viajeo project – supporting data exchange

Source: [ERTICO](#)

Viajeo is the International Demonstrations of the Platform for Transport and Travel Information project, co-funded by the European Commission, DG Research for Specific International Cooperation Actions (SICA) and supported by the Italian Ministry for the Environment, Land and Sea.

The aims of the project are to create, demonstrate and validate an open platform which will enable information exchange and sharing among various stakeholders. This open platform will facilitate data exchange, centralise processed data from various sources and thus improve traveller information services, support transport management and more sustainable transport and city planning.

The demonstrations are planned to start from 2010 in a number of cities in Europe and partner countries Brazil and China: Athens, São Paulo, Beijing and Shanghai. The cities have been chosen to serve as role models and encourage other cities and even countries to follow in their lead.

Project partners believe that informed travellers, transport operators and city planners, who are given comprehensive and high-quality information, will actively help reduce congestion and its negative environmental impact in urban areas. The project also looks to involve a wide range of stakeholders including end users, traffic managers, public authorities, service providers and research organisations. It is hoped that this multi-sector approach will allow for a comprehensive social, economic and environmental assessment of the implementation of the Viajeo's open platform.

The project was officially launched in September 2009 and is scheduled to last for 36 months. More information about the project is available on the [Viajeo project web site](#).

ITS Radar International will monitor Viajeo

NEARCTIS

Source: www.nearctis.org

The NEARCTIS (Network of Excellence for Advanced Road Cooperative Traffic management in the Information Society) is an EC-funded project which aims to bring together various European academic institutions working on road traffic management and develop a virtual research institute to enable the sharing of data and resources. The project partners include three UK universities and one UK research consultancy.

The project is structured along two different lines corresponding to research fields on the one hand and to applications on the other. The idea in implementing these two structures is to ensure communication between disciplines and research fields, by studying how research from various different fields can be applied to technical systems. It is hoped that this approach will enable the creation of a common and a consistent research programme.

ITS Radar International will monitor NEARCITS

ASSET

Source: www.project-asset.com

The ASSET (Advanced Safety and driver Support for Essential road Transport) project is funded by the European Commission and aims to contribute substantially to the improvement of safety in the field of sustainable road transportation.

The ASSET concept comprises the following main aspects:

- To develop a new "System Theory of Traffic Safety"
- To deduce from the theory, the practical measures needed for an integrated safety system

- To develop and integrate technologies and architectures including a "Holistic System Design"
- To integrate different important and useful applications and build test sites
- To investigate functions, performance and operations and optimise the systems for future use.

The project consortium consists of 19 partners, composed of universities, research institutes and industry representatives; it includes one UK university. The project was started in July 2007 and is scheduled to finish in December 2011.

ITS Radar International will monitor ASSET

■ RECENT PUBLICATIONS

No new publications to report.

■ GLOSSARY

ADAS	Advance Driver Assistance System
ASSET	Advanced Safety and driver Support for Essential road Transport (EC funded project)
CIT	Cork Institute of Technologies
CVAS	Commercial Vehicular Agent System
DG	European Commission's Directorate-General
EASYWAY	A project for Europe-wide ITS deployment on the main corridors of the trans-European Road Network; funded by the EC and Member States.
EC	The European Commission
EVI	Electronic Vehicle Identification
FOT	Field Operation Test
GNSS	Global Navigation Satellite System
GPRS	General Packet Radio Service
GSM	Global System for Mobile Communications
ITS	Intelligent Transportation Systems
NEARCTIS	Network of Excellence for Advanced Road Cooperative Traffic management in the Information Society (EC funded project)
RDW	The Dutch vehicle registration and license centre
SICA	Specific International Cooperation Actions
TERN	Trans-European Road Network
VRU	Vulnerable Road User
VSN	Vehicle Social Networking

Wi-Fi

Wireless Fidelity - Trademark of the Wi-Fi alliance that represents equipment certified for interoperability for different wireless devices