Identifying ITS Opportunities for the HA Pilots Newsletter: February 2010

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, the web site can be reached at: www.highways.gov.uk/itsradar.

To contact us and let us know what you would like this project to deliver please email us at: ITSRadarInternational@trl.co.uk

About Pilots

Developments in innovative pilot projects for ITS technologies and services from around the world are monitored and reported here.

These pilots are used to test and assess the potential and impacts of newly developed services before they are deployed for widespread use by the travelling public and those who manage the transport system.

Intelligence on such pilots supports the development of new systems and services in the Highways Agency and on the road network.

Note that pilots and demonstrations which are part of European Research Programmes can be found in the European Research Newsletter.

Meetings

None to report

Projects

High Definition cameras for traffic monitoring in California

Source: Thinking Highways, Vol. 4, Issue 4, Nov/Dec 2009, pg. 48-50

The City of Santa Ana in California has started testing the latest high-definition camera technology with a view to integrating it into their traffic management system. If this pilot trial is successful, this technology may become one of the first high definition surveillance systems in the United

States. The first camera was installed at an intersection which is located close to freeways and features high congestion. The high definition cameras allow a wider view to be monitored in much greater detail: a local traffic engineer commented that the system enables them to read the lettering on a sign which is 2.7 miles away.

Keywords: Incident, Monitoring, Traffic management

Wireless magnetometer vehicle detection

Source: 'New kid on the block', Surveyor, 18 December, pg. 20-21

Golden River M100 wireless magnetometer vehicle detection equipment is being used in Blackburn as an alternative to induction loops as part of a corridor improvement scheme. The signalling system has also been upgraded to MOVA (Microprocessor Optimised Vehicle Actuation), which will improve the co-ordination and efficiency of traffic on the corridor.

The wireless magnetometer detectors have been chosen over traditional induction loops as they only require a single 100mm core to be cut in the road surface. This significantly reduces installation time to 15-20 minutes per detector, which keeps road disruption and costs to a minimum. It should also increase the life of the road surface as unlike induction loops, there is no need to cut slots in the surface for the associated communications cabling.

Keywords: Monitoring, Traffic management

■ Recent Publications

Radar for incident and event detection in tunnels

Source: 'AIDs: the remedy', Safety and Security for Road Infrastructure, November/December 2009, pg. 30-31

The Highways Agency appointed Atkins to conduct a trial of Navtech Radar's Clearway TS 350-X detection system. The trial was aimed at testing the effectiveness of radar technology within a tunnel environment, especially its capability of detecting slow-moving or stationary objects. The project was carried out over several months and involved artificial generation of incidents as well as real time running. The results showed that a radar system effectively and consistently detects vehicles, pedestrians and debris in a two lane tunnel bore, with a detection range covering the entire width of the carriageway. The false alarm rate was one per 24 hours for the whole system, which was recognised as an acceptably low level, and this was achieved with minimal adjustment to the initial installation.

Keywords: Incident, Monitoring

innovITS Advance test track to open in April 2010

Source: 'A world-class facility for a global market', Traffic Engineering and Control, December 2009, pg. 471-472

The first phase of the highly advanced test track 'innovITS Advance', which will enable development, testing and validation of future telematics technologies, is expected to be ready by April 2010. It has been developed jointly by TRL (Transport Research Laboratory), innovITS (the UK Centre for

Excellence for Transport Telematics) and MIRA (Motor Industry Research Association). The test track consists of roundabouts, junctions and traffic lights and is equipped with the latest, adjustable communications technologies. It is intended to act as an international centre for trials of systems linking vehicles, roads and infrastructure.

Keywords: Communications, Cooperative vehicle systems, In-vehicle systems, Project

RedSpeed gains Type Approval for an average speed enforcement system

Source: 'Red Speed is ready for switch on', Traffic Engineering and Control, October 2009, pg. 389-390

RedSpeed International have recently gained Home Office Type Approval (HOTA) for their new RedFusion average speed enforcement camera system. This will result in the trial 9.7km stretch from Canning Town to Goresbrook on the A13 in East London, managed by Transport for London (TfL) to be formally switched on as an enforcement system.

Keywords: Enforcement, Identification, Monitoring, Safety

GLOSSARY

CCTV	Close Circuit Television
HOTA	Home Office Type Approval
innovITS	the UK Centre for Excellence for Transport Telematics
MIRA	Motor Industry Research Association
MOVA	Microprocessor Optimised Vehicle Actuation
TfL	Transport for London
TRL	Transport Research Laboratory