



The Institution of Engineering and Technology seminar on
**Communication Technology for
Intelligent Transport Systems**

9 March 2010

IET London: Savoy Place | UK

Tuesday, 9 March 2010

08:30 Registration and Refreshments

09:30 **Opening Remarks from the Chair**

Professor Bahram Honary, Department of Communication Systems, Lancaster University

09:35 **ITS in a Mobile World – The Who, Why and Wherefore**

- Who - Exploring the “people” aspects of ITS and opportunities and Issues of Service Delivery
- Why - Exploring the opportunity for Mobile Technology and a Network Operator in ITS
- Wherefore - Exploring the business model for ITS – Who Pays?

Stephen Hope, Project and Business Development Manager, Docobo Limited

10.15 **Technology to enable an informed choice**

- Exploring a “new way of thinking” in dealing with traffic congestion
- Understand how information can influence human behaviours and assist informed personal travel
- Explore the challenges of improving accuracy and reliability
- How information supports a better journey

Stephen Hart, Innovation Platform Leader ITSS, Technology Strategy Board

10.55 Refreshments and Networking Break

11.35 **Vehicle occupancy verification using mobile phones**

- Understanding how RF technologies will be used to provide positioning by utilising surrounding communication infrastructures
- Exploring the challenges of using mobile phones to verify vehicle occupancy
- Examine the benefits of the ridesharing project for motorists and road congestion

Souroush Honary, Director, HW Communications

12.15 **Car-to-car communications and its implications for active safety**

- Cellular communications will play a key role in supporting ITS, but will not have a monopoly!
- Satellite communications can fill coverage gaps in the cellular network coverage
- However, direct vehicle-to-vehicle communications are needed for low-latency safety-enhancing applications. Pan-European spectrum has been allocated at 5.9GHz and 63GHz.
- New standards are emerging: of most interest is the work of ISO, ETSI and the IEEE.
- The European Action Plan for ITS will accelerate the adoption of these technologies.

Nigel Wall, Shadow Creek Solutions LLP & Chair, ITS UK Communications Interest Group

12.55 Lunch and Networking Break

14.00 Managing road congestion using vehicle verification technology

- Using mobile communications technology to accurately verify vehicle occupancy
- Examine how this can be applied and assist managing demand in the road transportation network

Mike Szczygiel, Principal Consultant, Autotxt Limited

14.40 Reducing congestion via Information Communication Technology

- An analysis of road to vehicle communications
- Road user charger and toll systems (security)
- Smartcards RFID (radiofrequency identification)

Phil Blythe, Professor of intelligent transport systems, transport operations research group, Newcastle University

15.20 Refreshments and Networking Break

16.00 Building Resilience, Security and SIM/Mobile Network Management into ITS

- Enhancing the resilience and security of mobile network communications
- Meeting the need – GPRS and 3G services
- Facilitating monitoring and management of large scale SIM roll-outs.

Nigel Chadwick, Director, Stream Communications Limited

16:40 Closing remarks and end of seminar

