

## Network of Excellence for Advanced Road Cooperative Traffic management in the Information Society (NEARCTIS)

2<sup>nd</sup> Workshop Programme

13 November 2009

**Venue:** University College London

08.30 – 09.00	Coffee	
09.00 – 09.45	<b>Welcome plenary – Keynote speech</b>	
09.45 – 11.15	<b>Session A:</b> WP1 and WP2 updates: Research programmes and case studies	
11.15 – 11.30	Coffee break	<b>Session C:</b> Partners' posters
11.30 – 13.30	<b>Session B1:</b> Partners' presentations	
13.30 – 14.15	Lunch break	
14.15 – 15.45	<b>Session B2:</b> Partners' presentations	
15.45 – 16.00	Coffee break	
16.00 – 17.30	<b>Session B3:</b> Partners' presentations	
17.30 – 18.00	<b>Closure</b>	

### **Welcome plenary**

Introduction by Jean-Baptiste Lesort (NEARCTIS president) and keynote speech by André Vits (NEARCTIS advisory committee).

### **Session A (Chair: J.B. Lesort)**

B. Heydecker – UCL

*WP 1 Update: Review of the state of knowledge and capability in relevant technologies*

M. Papageorgiou – TU Crete

*WP 2 Update: Review of available case studies and related scientific knowledge*

## Sessions B (Oral presentations)

### B1 (Chair: M.G.H. Bell)

J. Marais – INRETS

*GNSS-based localisation systems: existing performances and works in progress*

M. Miska, M. Kuwahara – University of Tokyo

*International Traffic Database (ITDb)*

A. Bhaskar, E. Chung, A.G. Dumont – EPFL & Queensland University of Technology

*Urban network travel time estimation by integrating multisource data*

R. Krishnan, J. Polak – Imperial College London

*Intelligent decision support for traffic management*

### B2 (Chair: F. Medda)

R.C. Carlson, I. Papamichail, M. Papageorgiou, A. Messmer – TU Crete

*Optimal mainstream traffic flow control of large-scale motorway networks*

D. Krajzewicz – DLR

*iTETRIS: An integrated tool set for evaluation of large-scale traffic management application based on vehicular communication*

A. Hegyi, S. Hoogendoorn – TU Delft

*SPECIALIST: A dynamic speed limit control algorithm based on shock wave theory*

### B3 (Chair: B. Heydecker)

B Shrestha – University of Southampton

*Opportunities for new co-operative systems for buses in London*

P. Addison – UCL

*ICT: Who Stands to Benefit?*

#### Related projects

H. van Lint (TU Delft): *ATMO – Advanced Traffic Monitoring*

C. Almeras (ECTRI): *YEAR2010 project & traffic management*

C. Buisson (ENTPE): *COST Action TU0903: Supporting the use, calibration and validation of traffic simulation models*

I. Kaparias (Imperial): *CONDUITS traffic management benchmarking*

N.-E. El Faouzi (INRETS): *COST Action TU0702: Weather-responsive traffic management*

## Session C (Posters)

M. Aron, R. Seidowsky, S. Cohen – INRETS

*The safety impact of hard shoulder use during congested traffic: The case of a managed lane operation on a French urban motorway*

S. Bauer – DLR

*AIM - Application Platform Intelligent Mobility*

A. Bousquet, N.-E. El Faouzi – INRETS

*Tempus: Multimodal router prototype based on urban travel time estimation*

S. Box – University of Southampton

*Traffic signal control using vehicle position data*

G. Flötteröd, Y.-P. Wang, M. Behrisch, P. Wagner – EPFL & DLR

*Disaggregate route choice estimation for the SUMO traffic microsimulator with the Cadyts calibration tool for improved traffic management*

A. Fonzone, M.G.H. Bell – Imperial College London

*How much do we pay for our lack of hyper-rationality?*

S. Haji Hosseinloo, M.G.H. Bell – Imperial College London

*Finding time-dependent hyperpaths for traffic networks: Route choice under uncertainty*

S. Hoogendoorn, M. Westerman, J. van Kooten, P. van Koningsbruggen, R. van Katwijk, S. Hoogendoorn-Lanser – TU Delft

*Design and implementation of integrated network management in the Netherlands*

J. Hu, M.G.H. Bell – Imperial College London

*Short-term congestion prediction for in-vehicle route guidance*

A. Kouvelas, E. Kosmatopoulos, M. Papageorgiou – TU Crete

*Adaptive optimisation with satisfactory transient performance for large-scale traffic control systems*

D. Krajzewicz, M. Behrisch, Y.-P. Wang – DLR

*Microscopic road traffic simulation package „SUMO“ for optimising traffic management*

J. Leithoff, F. Kurz, D. Rosenbaum, U. Thomas, P. Reinartz – DLR

*Traffic processor for a real time airborne monitoring system of disasters and major incidents*

J. Ogawa – University of Southampton

*Analysing new traffic management applications for UK motorways*

C. Osorio, G. Flötteröd, M. Bierlaire – EPFL

*Simulation-based signalling optimization based on structural surrogate models*

J. Princeton – INRETS

*Case study on a managed lane: Simulation of a dedicated lane on an urban motorway*

V. Trozzi, M.G.H. Bell – Imperial College London

*Passengers navigation in a public transport network: Supporting real-time route choices in a dynamic and stochastic multimodal network through a personal journey planner*

F. van Wageningen-Kessels, L. Leclercq, K. Vuik, S. Hoogendoorn, H. van Lint – TU Delft & INRETS

*Lagrangian traffic flow simulations: accuracy of numerical methods*

M. Wang, W. Daamen, S. Hoogendoorn, B. van Arem – TU Delft

*Sustainability perspectives of cooperative systems*

M. Zargayouna, S. Hoogendoorn, A. Pel, O. Huibregtse – INRETS & TU Delft

*Optimizing instructions for online evacuations control with multi-agent systems*

**Closure**

Session chaired by Jean-Baptiste Lesort, summarising the outcomes of the workshop.