

Programme

22nd World Congress and Exhibition on Intelligent Transport Systems and Services

22nd
ITS World Congress

Bordeaux, France

5 to 9 October

2015

SIS55 - ITS for road freight compliance and efficiency

Thursday 8 October 2015 - 17:15 - 18:45

HALL2 - Room 223

TOPIC: 3. Multimodal Transport for People and Goods

On-board and interactive solutions involving lorries, infrastructure and stakeholders will be discussed to improve freight transport performance such as emissions, fuel consumption, road safety and capacity utilization. Technologies such as anti-rollover systems, dynamic speed control, eco-driving assistance, or platooning use vehicle dynamic parameters, road and traffic characteristics and external factors deliver warnings and vehicle control intervention. Electronic compliance systems allow road and traffic managers to give individual access permits to vehicles. These systems will support future regulation. They depend on vehicle to infrastructure integration with weigh-in-motion, global positioning systems (e.g. for access control), DSRC communication and on-board units, e-communication, etc. Improved monitoring and enforcement of heavy vehicles is becoming more advanced and challenging as the fleet diversifies. The session will be introduced by keynote speakers with formal presentations addressing the main challenges, based on the knowledge and background of each organisation (ISWIM, IFRTT, PIARC/CT2-3 and ITF). Discussion between the panellists and the audience will follow involving several recognized experts in heavy vehicles and freight transport.

Organiser

John Woodrooffe, University of Michigan, United States

Moderator

Chris Koniditsiotis, Transport Certification Australia, Australia

Speakers

John Woodrooffe, University of Michigan, United States

Bernard Jacob, IFSTTAR, France

Rikard Engström, SNRA, Sweden

DATE: Friday 9 October 2015

TIME: 09:00 – 13:30

LOCATION: Palais des Congrès

ROOM: F1

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Mini-Symposium: Transforming Freight Movement Through ITS

This associated event will complement and develop the concepts and idea introduced in the SIS "ITS solutions for road freight transport compliance and efficiency". On-board and interactive solutions (V2X and X2V) involving lorries, infrastructure and stakeholders will be presented and discussed to improve freight transport performance such as emissions, fuel consumption, road safety and capacity, congestion, and capacity utilization.

Technologies such as eco-driving assistance, platooning, dynamic vehicle routing, infrastructure electrification contribute to reducing the environmental impact of freight transport and a reduction of fossil energy and CO² emissions.

Road safety and congestion will be improved with advanced technologies and safer or more adapted driver behaviour, such as anti-rollover and knife-jacking systems, dynamic speed control, advanced driving assistance (ADAS), vulnerable road users detection, warnings and vehicle control intervention.

Electronic compliance systems allow road and traffic managers to give individual access permits to vehicles (IAP). These systems will support future regulation. They depend on vehicle to infrastructure integration with weigh-in-motion, global positioning systems, DSRC communication and on-board units, e-communication, etc. Improved monitoring and enforcement of heavy vehicles is becoming more advanced and challenging as the fleet diversifies.

The event will be divided into 3 sessions: (1) Energy and environment issues, (2) Safety and efficiency of heavy commercial vehicles, and (3) Regulation and compliance. Each session will combine a series of 4 presentations (15 mn each) followed by a panel discussion (20 mn) involving international experts and the audience. The event will be supported by IFRTT, ISWIM, PIARC/CT2-3, OECD/ITF, ERTRAC and FEHRL.