Green ITS to reduce oil consumption, pollution, climate change

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UN-ECE
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Deploying ITS for environmental benefit

- Several sessions in ITS international congresses have already been focussed on zero emissions and energy (Helsinki, Detroit)
- Several presentations in the Un-ECE workshop
- Documents of UNECE have mentioned actions for the climate (global statistics, data bank Mobivis Project (Belgium), taxations, ecoACTION (Canada), Eco-driver training (Austria), car pooling, emission standards, Mdellisation (Future Inland Transport Systems), Ecocities (Belgium, France...))
- Cars are becoming more energy efficient but increasing transport demand GHG emissions continue to rise.
How to progress?

• One can anticipate a real interest for ITS companies if something happens to help to create a real market
• There are some places where an effective reflexion could help to develop a vision about a possible action
• The working group for the preparation of ITS Bordeaux Congress was one of these places in France in previous months

Many actors will have to cooperate: difficulty / chance

• A set of possibly interrelated services for green ITS?
• How to measure/assure efficiency?
Green ITS services (safety forum 2008)

- Eco-driving support
- Eco-traffic management
- Eco-information and guidance
- Eco-demand and access management
- Eco-mobility services
- Eco-freight and logistics
- Eco-monitoring and modelling

FROM LOCAL Trunk of road TO GLOBAL Climate change
Eco-driving

• At stake: 10% of energy consumption
• Several tools, various scenarios
• Direct return for the end users, not sufficient to change behaviour
• Possible for fleet managers
• Needs for social incentives for individual drivers
Ecodriving policy

- Awareness, training, education
- Awards for individuals or communities?
- Funding the equipments?
- Part of a territorial climate master plans, Agenda 21...

- Needs for evaluation/ benchmarks… solve recurrent trafic problems
Eco-Traffic management

• Congestion is directly linked to several effects, whose social and political importance may be different
• Intelligent crossroads
• Place of public transport
• Crisis management
Traffic policies

- Answer to local problems: simulation and operation of crossroad
- Management of a road network
- Management of an intermodal transport system
- Management of the mobility in a large territory
Eco-information and guidance
Eco-demand and access management

- Specific authorities
- Legal basis
- Funding
- Tools
- Interoperability (cars, service providers…)
- National policies
Eco-mobility services
Eco-freight and logistics

- Vehicle sharing (one hour, one day, one year … )
- Car pooling (3 hours, 3 minutes… )
- Parking reservation

- Public and private initiatives, not limited by national borders
- Interoperability at regional levels: specifications
- Infrastructure of services like secure payment, GNSS, data policies, evaluation
ECOSTAND

- Coordination action between:
  - Europe (Green Car Initiative & FP7 related projects AMITRAN)
  - Japan (METI Energy ITS project)
  - USA (AERIS program Applications for the Environment Real-Time Information Synthesis)
- « Guidelines for Assessing the effects of ITS on CO2 emissions published in 2013 »
- Proposal to promote the guidelines (« The Best Practice Showcase »)
ITS for the Climate

• One Theme selected for the World ITS Bordeaux Congress (5-9 October 2015)
• Strongly supported by France, who is the organizer of COP 21 (Paris session in December 2015)
• Call for papers, sessions, demonstrations, associated events is open

« Bordeaux Manifesto ITS for the Climate » is under preparation:
• Proposal to the 3 regional ITS Association and Multilateral Institutions
• An idea has been launched: Organize in Bordeaux ITS World Congress the first World Challenge to increase awareness on ITS for the climate before the COP 21 ?... ?
ITS World Congress 2015
BORDEAUX
5-9 October 2015

TOWARDS INTELLIGENT MOBILITY
Better use of space