

# 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, Modelling ( 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 place 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



BMIA

# Ecodriving policy

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

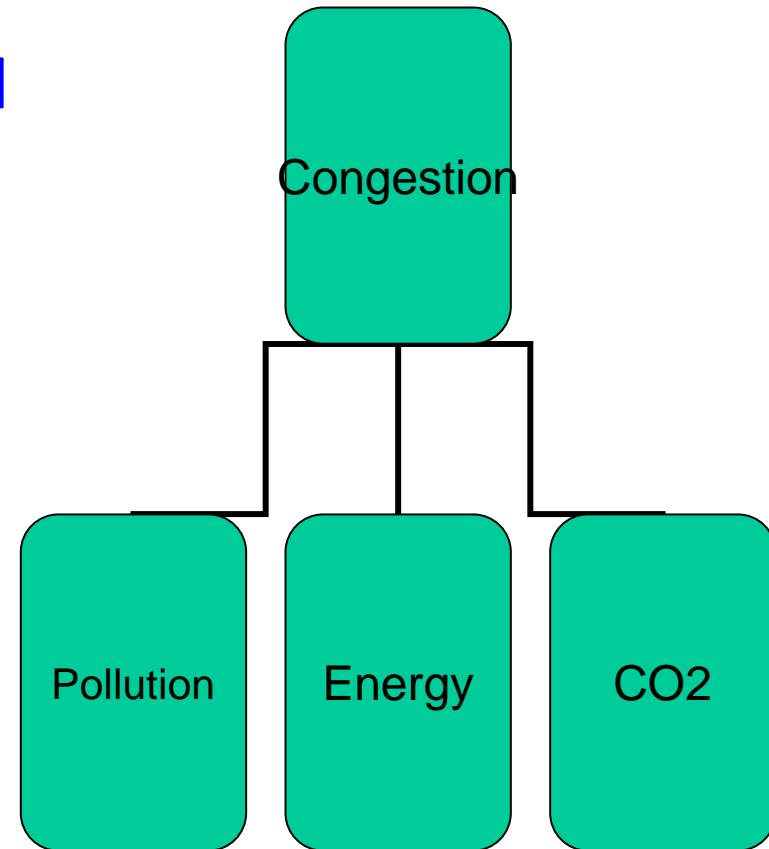


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- Needs for evaluation/ benchmarks... solve recurrent traffic problems

# 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

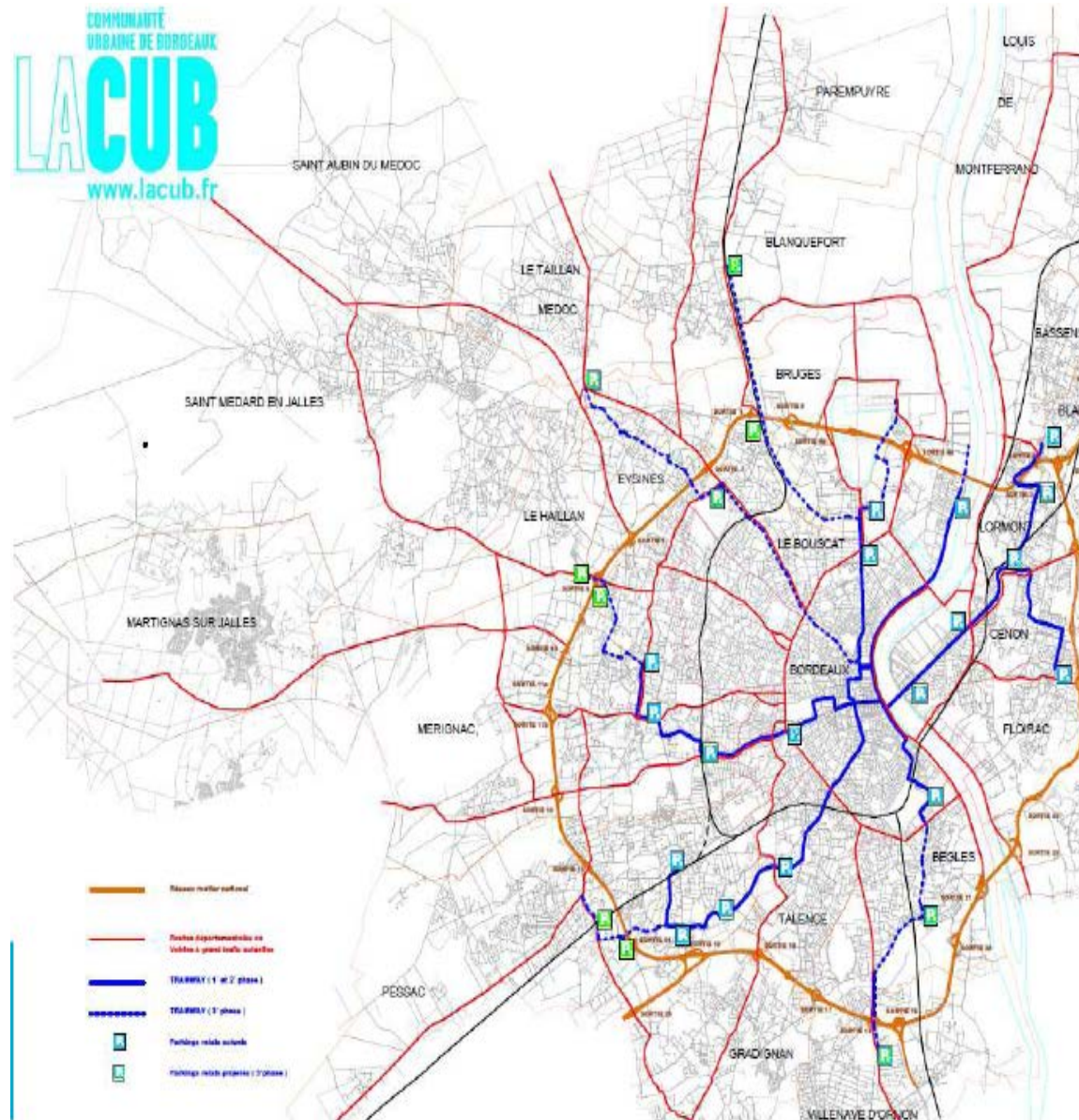




# Eco-information and guidance

## Eco-demand and access management

- Specific authorities
- Legal basis
- Funding
- Tools
- Interoperability (cars, service providers...)
- National policies



# Eco-mobility services

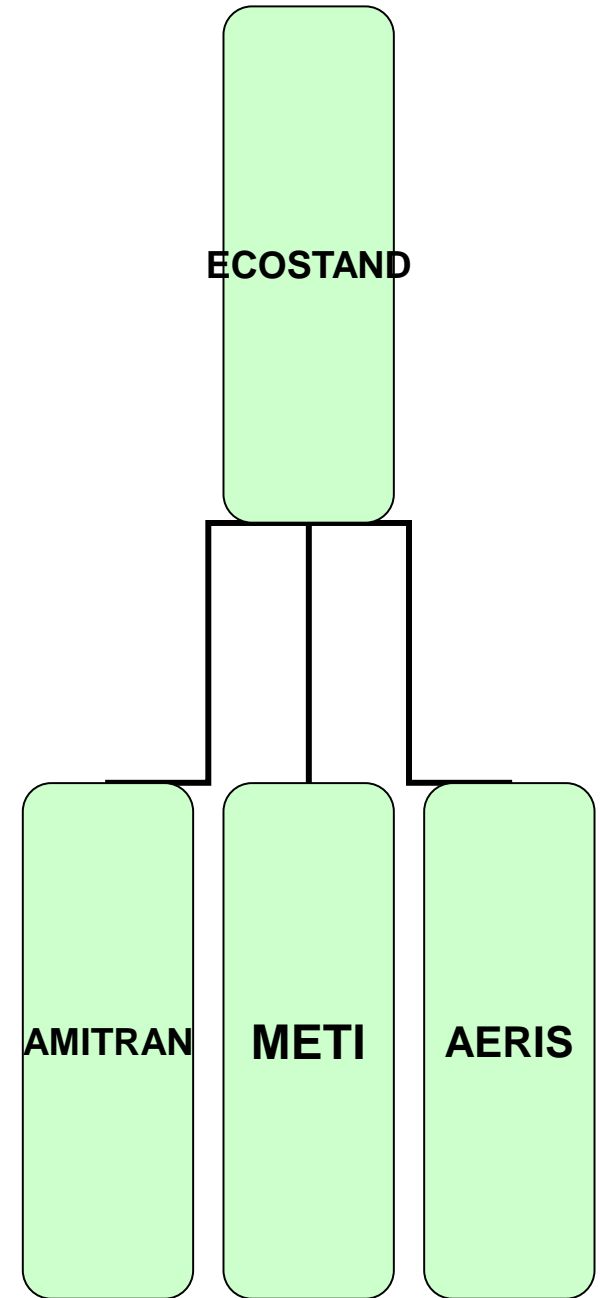
## Eco-freight and logistics

- 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 ?... ?





**TOWARDS INTELLIGENT MOBILITY**  
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# ITS World Congress 2015 BORDEAUX 5-9 October 2015



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