

Cooperative Vehicle Infrastructure Systems - CVIS

THE CONNECTED TRAVELLER

How communication technology can support road traffic management and increase road safety in cities

Prague, March 10, 2010

Cooperative systems: “talking” cars and roadside infrastructure

Cooperative vehicle-infrastructure systems provide technology to allow cars to communicate with one another and with roadside infrastructure.

Cooperative systems promise to substantially **increase the efficient use of the road network, to increase road safety**, and to **reduce the environmental impact of road transport**.

One example of such cooperative applications is the priority application: some vehicles deserve higher attention than others, for instance public transport vehicles, emergency vehicles, heavy trucks or trucks with dangerous goods. The priority application communicates with roadside infrastructure in order to gain priority at junctions, and the application aims at a more fluid and safe intersection crossing for the vehicle categories set by the authorities.

Another example (which aims at increasing safety) involves warning vehicles about impending collisions at urban intersections. In order to reduce the likelihood of collision, a warning for left or right turns can be given to the driver if there are vehicles or cyclists approaching: This warning is triggered via vehicle-to-vehicle or vehicle-to-infrastructure communications.

These are just two examples, but there are many others! Cooperative systems will allow public authorities to improve their traffic management and road safety services by using the new communication channels and communicating with individual vehicles. Additionally, this communication with individual vehicles will allow for benefits in terms of data collection for public authorities (more data and better quality without the need to equip the roads with lots of sensors, detecting loops, etc.).

Car manufacturers have agreed to equip their vehicles with the necessary onboard unit and European national road authorities are in discussions on how to deploy cooperative systems. Cooperative technology is not ready today – but all investments in ITS equipment today should consider the option of cooperative operation tomorrow!



The training workshop

The training workshop aims at providing participants with a solid grounding in the basic concepts of cooperative systems, as well as discussing the potential of this technology to address transport challenges at urban and regional levels.

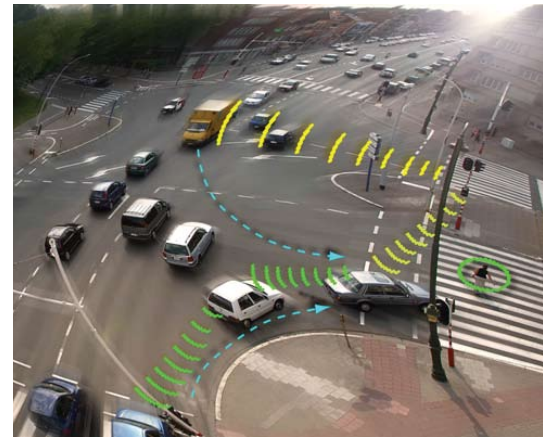
Programme

10 March, 09.00-13.00

The programme will start with sketching the main challenges for traffic management (and road safety) in urban areas (using the Czech Republic as example) and presenting the state-of-the-art ITS solutions to address these. This will lead to limitations with the current systems and the potential of cooperative systems.

The CVIS project invites you to a networking dinner the evening before the workshop.

Languages: Simultaneous, Czech-English-Czech translation will be available.



Who should join?

The workshop is mainly addressed at traffic managers, transport planners, and decision makers from local and regional authorities. The workshop is also open to researchers, consultants and others interested in the topic.

Participation in the event is **free of charge**.

Contact and information

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