

Cooperative Mobility Showcase 2010

CVIS will demonstrate the “ITS application store” and the “TMC of the future”

23-26 March 2010 Amsterdam RAI, The Netherlands

The “connected vehicle” is no longer a dream, and the “intelligent transport infrastructure” is already appearing on Europe’s roads. Brought together through a new generation of mobile communication technologies, they make up the future world of “Cooperative Mobility”. For four days in March 2010, the combined results of three major European R&D projects, CVIS, SAFESPOT and COOPERS, will show in Amsterdam how cooperative systems enhance safety and mobility on roads of Europe.

A wide range of cooperative mobility applications will be demonstrated on the public highways leading to Schiphol Airport, on the airport’s own road network and on a dedicated safety demonstration area. In addition, a fully operational “cooperative traffic centre of the future” will be set up to visualise the demonstrations going on outdoors and to show the migration from existing systems to future applications. I&cDRIVE is a new brand within the Intertraffic. In 2010 it is dedicated to cooperative systems. The CVIS project will have a stand together with SAFESPOT and COOPERS.

The Traffic Management Centre

The cooperative traffic management centre will be the nerve centre of the demonstrations and meeting place for the showcase event as a whole. Every hour there will be a 30 minute presentation with 2 actors, introducing the idea of cooperative systems, the traffic management operator’s perspective, the driver’s perspective, and the traffic management centre of the future. Presentation of different cooperative applications will include:

- Strategic Routing Application is based on live traffic data based on information of the National Data Warehouse and the City of Amsterdam. Data pooling of advanced traffic state information will support the decision making of the traffic manager. Routing strategies, variable message signs, dynamic speed limits, dynamic traffic light control will be harmonised.
- Information Distribution will show information distribution in a cooperative system enabling future applications improving traffic safety, traffic flow and traffic pollution. CVIS equipped vehicles generate FCD Events and provides FCD History (aggregated beaconing information). Fleet Monitoring will show the monitoring of vehicles and improved guidance. Based on traffic information vehicles can be re-routed or special advices can be provided to drivers. The application will show the monitoring of dangerous goods vehicle and their re-routing in case of an accident/incident.

Real time traffic data will show a long stretch information supply. Real time data from VMS between RAI and Schiphol will enhance the horizon for the vehicles and the drivers.



The permanent display/visualisation will use a videowall, displaying different views of the traffic situation, such as a map based online traffic state, the position and estimated time of arrival of the tour busses together with current speed limits and VMS information, other dynamic presentations of cooperative applications and a live video stream to the safety demonstration site.

Public Road Tour - Seeing is Believing!

A live tour says more than 10 presentations. We can write books on Cooperative systems, talk for hundred hours about it, present the concepts and so on. When we show you the cooperative systems in the real world, you will get the best experience! When driving between Amsterdam and the RAI, we demonstrate you cooperative systems in efficiency and safety. We selected a special track which includes Urban, Inter-Urban and regional roads, such that all

cooperative concepts can be shown. Each having its own characteristics. During this tour results of CVIS, Safespot and Coopers will be shown live:

Seamless Wireless communication

One of the key elements of cooperative systems is the seamless handover between differing communication channels. infrared (short range), M5 (medium range at 5.9GHz) and 3G (wireless internet) communication media.

Enhanced positioning and Mapping

With the new cooperative technology we are able to create a much higher accuracy than with ordinary GPS. This During the tour we will show you the car matches to the lane you are actually driving in

Sensor the surroundings

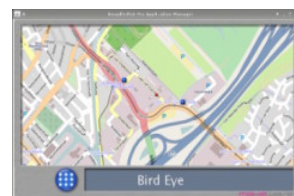
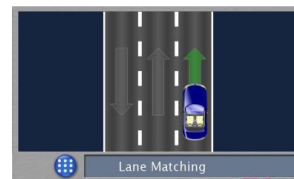
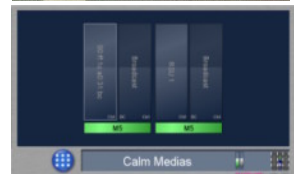
Some characteristics will be shown of the surrounding vehicles with which valuable information will be exchanged. This will be information exchange between vehicles (V2V) and between vehicles and the infrastructure (V2I)

The open environment

Cooperative systems enables smooth and easy automatic downloading of services. Anyone (public & private) can join this environment. The tour shows how new services are loaded dynamically to the car platform.

Public private cooperation

Existing legacy systems in the Netherlands have been made cooperative , such that they become part of the cooperative world. Data which is collected by the public road administrators is directly communicated to the car.



The tour will start at the premises of the RAI and will approximately take 1 hour to complete. Halfway the tour the mini-VAN's will stop at the P4 parking at Schiphol Airport, where safety applications will be shown.



- Urban Route
- Schiphol Route
- Highway