

Test deployment project of cooperative intelligent transport systems

May 2014

Cooperative intelligent transport systems (cooperative ITS) embrace a wide variety of communications-related applications between vehicles, road infrastructures and communication infrastructures, intended to increase travel and operation safety, while improving travel quality.

The Ministry of Sustainable Development is in charge of the **SCOOP@F** project, which aims at deploying cooperative ITS from 2014 onwards. It is a nation-wide project, which will equip 3000 vehicles and 2000 km of streets, intercity roads and highways in 2016.

Partners and test sites

The ministry manages this project which involves partners such as local authorities, State services in charge of national road management, automotive industries, automotive suppliers, study centres, universities and research centres, from which Cerema and IFSTTAR.

The five tests sites will be:

- intercity roads in île-de-France;
- Bretagne;
- Paris-Strasbourg highway;
- Bordeaux and its by-pass road;
- County roads in the Isère "département".

How it works

For each test site, roads and vehicles will communicate through wireless networks:

- using wifi routers along the road and embedded receptors in the vehicles;
- using public GSM networks.

Vehicles will exchange with the infrastructures and other connected vehicles some information about their position, speed, obstacles, etc. Roads will broadcast about traffic conditions, works, speed limit, accidents, obstacles...

The driver will get through a tablet computer all of these alerts. The data sent by vehicles to routers will be gathered by road managers as traffic information, to help them react faster in case of emergency. The system increases safety for workers in the construction zones, since an alert will be sent to each and every connected vehicle for them to be aware of the danger.

Enhance safety and travel quality

The project should allow to know which services are useful to users, like works alert, embedded speed limit information, hazardous situations signaling (traffic jam tails, accidents, wrong-way vehicles, availability of park-and-ride to favour public transit use).

Cutting-edge traffic management

Developing cooperative ITS will offer a lot of opportunities:

- accurate and real-time road information;
- tailored traffic management and lowered intervention time;
- suppression of dynamic signage and counting devices, while having a better service for the user and a reduced cost for the road operator.

SCOOP@F also allows the automotive industry to prepare the next generation of vehicles.

Agenda

- February 11th, 2014: launch of SCOOP@F
- 2014: technical specifications and developments
- 2015: first connected infrastructures and vehicles plus tests
- 2016: full scale experimentation
- 2017: if the outcomes are positive, nation-wide deployment

Financing

The overall cost of the project is expected to be around 20 million euros, and it has been applied for a European support in March 2014.