



Infomobility demonstrator platform activated in Beijing by Thetis and Viajeo partners

Viajeo is an EU project and the purpose is to demonstrate innovative and integrated infomobility platforms. Coordinated by ERTICO, Viajeo is co-financed under the Framework Programme FP7 of the European Commission, with the support from the Italian Ministry of Environment and Protection of Land and Sea (MATTM).

Infomobility is indeed one of the enabling technologies to contribute to better use urban multi-modal (or co-modal) transport, providing the traveler with information useful to decide how his destination can be reached, possibly taking into account how traffic is going at the moment.

Viajeo involves 23 partners with a some 5.9 M Eur budget and involves 4 demonstrators, in Athens, Sao Paulo, Beijing and Shanghai.

Thetis is the coordinator and system integrator of the Beijing Demonstrator, an ITS platform activated late 2011 and to be made working along 2012.

The demonstrator operative area is North-West Beijing and its functions include:

- Real time collection and integration of traffic and public transport data available in the area. Traffic data come from the FCD available from the Beijing taxis and from some private cars, while Public Transport data come from a bus fleet AVM and from the metro.
- Data processing to calculate the actual traffic speed in the streets and the bus arrival times at the stops and metro transit times.
- Run an easy-to-use multimodal journey planner, active on the web and on smartphones, taking into account the real time traffic situation and bus transit short term forecast.

The demonstrator includes:

- A service centre, hosted by BTRC (Beijing Transportation Research Centre) to collect and integrate field data
- A website accessible to PC users and smartphone users
- Some smartphones and notepads, with purpose developed apps to allow stakeholders and users to see how the journey planner runs and the other information is provided
- LED panel provided bus stops, displaying bus arrival times, operated by BPT (Beijing Public Transport, the municipal public transport company)
- A telecommunication network made of mobile and LAN/WAN connections.

The demonstrator showed effective, thanks the huge FCD infrastructure in Beijing, which is populated by some 20,000 taxis to get a detailed estimate of traffic speed all along the city.

Viajeo partners involved in Beijing were: BTRC, to manage the existing FCD data and to provide traffic estimate; T-Systems, providing an additional FCD infrastructure using a fleet of cars; BPT, providing bus AVM data and bus arrival times at the stops, based on an AVM system previously supplied by Thetis; PTV, providing the journey planner; Thetis, providing coordination and system integration.