Advanced Transport for the Urban Environment

What is CityMobil
CityMobil is an Integrated Project co-funded by 6th Framework Programme of the EU.

Citymobil objectives
- A more effective and sustainable organization of urban transport
- A more rational use of motorized traffic with:
  - less congestion
  - safer driving
  - higher quality of living
  - enhanced integration with spatial development
- By bringing the implementation of automated transport in urban areas a major step forward

Examples of Advanced Transport Systems

CityMobil background
- Mobility demands cause an ever increasing pressure on the urban arena
- There is a need for innovative solutions to facilitate mobility
- Automated road transport may contribute to sustainability by a more efficient use of resources and space and increased transport safety

Facts and figures
- Project start: May 1, 2006
- Project duration: 5 years
- Coordinator: TNO
- Number of Partners: 28
- Project Budget: 40 million Euros
- EU funding: 11 million Euros

How do we reach the objectives
- Mobility demands cause an ever increasing pressure on the urban arena
- There is a need for innovative solutions to facilitate mobility
- Automated road transport may contribute to sustainability by a more efficient use of resources and space and increased transport safety

City demonstrations Heathrow
Personal Rapid Transit (PRT) At Heathrow airport, a personal rapid transit system will be implemented to bring people from the car park to the terminals.

Features
- Small automatic vehicles
- One way guideway network
- Off line stations

Gaining on demand non-stop journeys and excellent operational flexibility. Transport that is waiting for you rather than you waiting for it.

Agreed Route
- Link from Car Park to T5
- 3.9 km of track
- 500,000 persons/year
- Operational June 2008

City demonstrations Rome
At the new exhibition centre in Rome, a fleet of automated shuttles will operate in the car park carrying visitors between the car park, the railway station and the exhibition centre.

Features
- Short distance transport service
- Use of small automated vehicles (cybercars)
- To improve visitors’ accessibility to the building for people coming both by car and by train
- To eliminate the current shuttle needed to serve the farthest car-slots
- To compensate the economic viability of automated systems for feeder transport service

City demonstrations Castellón
The Spanish town of Castellón will deploy dual mode buses, linking some corridors along the coastal line with the inner city centre and university.

- A more than 20 Km corridor linking the University, the city of Castellón –including the old city centre-, the port and then the coastal line up to the next big population
- High speed, high quality public transport service
- A flagship project for the Regional Government, large potential of replication
- The project is already included in the Plan for Strategic Infrastructures of the region, with an allocated budget of 97 M€
- The call for tenders for first phase - from the University to the city centre- is being opened in the course of 2007, with a budget of 17.5 M€

Technical aspects
- Electric buses/trolleybuses with dual propulsion – in city centre should be autonomous e.g. by using batteries.
- Operating within dedicated platforms in some sections, but on shared infrastructure in others.
- Dual mode of operation: autoguided during normal operation but intervention of a human driver should always be possible.
- Initially conceived for passenger transport, but a study on urban logistics was already made in Castellón and the Generalitat is open to consider that issue as well within the project.

R&D Program

CityMobil partners
- TNO - The Netherlands Organization for Applied Scientific Research
- ETRA - Investigation y Desarrollo
- CIF - Centro Investigación y Desarrollo
- ITMK - Institut National de Recherche en Informatique et Automatique
- IITS - Institute for Transport Studies, University of Leeds
- DLR - German Aerospace Center
- Roboaut SA
- TRG - Transport Research Group, University of Southampton
- CEST - Centro Estudios del Sistemas de Transporte
- NUIRE - Norwegian Institute of Technology
- IKA - Institut fuer Kraftfahrzeuwe der RWTH Aachen
- CNR - National Institute of Technology
- Universidad de Roma “La Sapienza”, Dipartimento di Idraulica Trasporti e Strade
- GEA - J.M. Vallotton - T. Chauvard SA
- RTT - EU cities and regions networking for innovative transport solutions
- Rups Consulting Projectmanagement B.V.
- Peer Navigation Systems B.V.
- Transport & Mobility Leaven
- ISIS - Institute of Studies for the Integration of Systems
- Technion (IIT) Israel Institute of Technology
- Vapol - Ministry of the National Transport
- INFRA - Infra Logis Verkehrsmanagement GmbH
- Comune di Roma
- BTS - Strade e Trasporti
- ATS - Advanced transport systems Ltd.
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