CityMobil

Advanced Transport for the Urban Environment

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CityMobil: Advanced Transport for the Urban Environment

Contents

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- Activities
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Mobility in our cities

- Congestion
- Pollution
- Traffic accidents

Resulting in a decreasing quality of living
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 implementing automated transport in urban areas
How do we reach these objectives

- 3 large scale implementations of advanced transport systems
- A number of showcases and studies into real city applications
- An R&D program to support the demonstrations and to address unresolved questions
Facts and Figures

Project start: May 1, 2006
Project duration: 5 years
Coordinator: TNO
No. of Partners: 29
Project Budget: 40 million Euros
EU funding: 11 million Euros
Budget division: About 40% for demo’s
About 60% for R&D
Examples of Advanced Transport Systems

- Cybercars
- Advanced Buses
- Personal Rapid transit
- Advanced city vehicles
How do we reach the objectives

3 large scale implementations of advanced transport systems: city demonstrations

- Heathrow
- Rome
- Castellón
City Demonstrations

- Castellón demo
- Rome demo
- Heathrow demo
City Demos: Heathrow

- Connects Business Parking with T5
- 3.9 km of single guideway
- 21 vehicles
- 3 stations
- 5min journey time

- Traverses 2 rivers and 7 roads
- Green belt land
- Negotiates aircraft surfaces
- Bridges in-ground services
- Conforms to T5 architecture
- Looks “Intended”
City Demos: Heathrow

4 passengers, 450 kg payload, 40km/h, 2kW
City Demos: Heathrow
City Demos: Rome

A cybercar system that connects the car park with the entrance of the new Rome Exhibition buildings.
City Demos: Rome

- 29 passengers;
- Max speed: 24 km/h;
- Obstacle detection systems: laser scanner and bumper switches.
City Demos: Rome

- Track round trip length of 1.617 m;
- 11 stops (2 close to the main entrances);
- 6 Cybercars (2 in the first phase and 4 later);
City Demos: Castellón

An advanced bus system that connects the university, the city centre of Castellón and the coast
City Demos: Castellón
City Demos: Castellón
Other demonstration activities

Showcases
Small demonstrations
City studies
CityMobil Showcases

Cybercars and advanced city vehicles for CityMobil showcases
CityMobil Showcases

- Daventry: October 2007
- La Rochelle: September, 2008
- Vantaa: May, 2009
- Trondheim: August, 2009
- Orta San Giulio: May 2010
# CityMobil Reference Group

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CityMobil Small Demos

CityMobil small demonstrations

La Rochelle
La Rochelle small demo

Electric boat harbour
Museums area
Technoforum (University area)
CityMobil City Studies

CityMobil City studies

Uppsala (SE) (finished)
  Feasibility study of a pilot PRT system in the Uppsala Boländerna disctrict

Sophia Antipolis (FR) (running)
  Scenario study into the possibilities of an innovative connection between the Antibes Rail station and the Sophia Antipolis cluster
CityMobil R&D programme

Focus on: Identifying and taking away barriers

Main barriers:
- Safety and certification
- Legal barriers
- Security and privacy
- Economical and administrative barriers
- Integration in existing environments
- Technological issues
- Operational issues
CityMobil results

Concrete results:

- 3 operating demonstration projects
- Showcases and possible small demonstrations
- City study reports
- Reports on R&D topics
- Dissemination activities
- Exploitation plan
CityMobil results

General results:

- A much better understanding of the possibilities of automated transport systems in cities
- An improved acceptance of advanced transport systems among the public as well as among authorities
- Less legal, administrative, operational and technological barriers for the implementation of advanced urban transport systems
THANK YOU

For information
CITYMOBIL Website:
www.citnymobil-project.eu