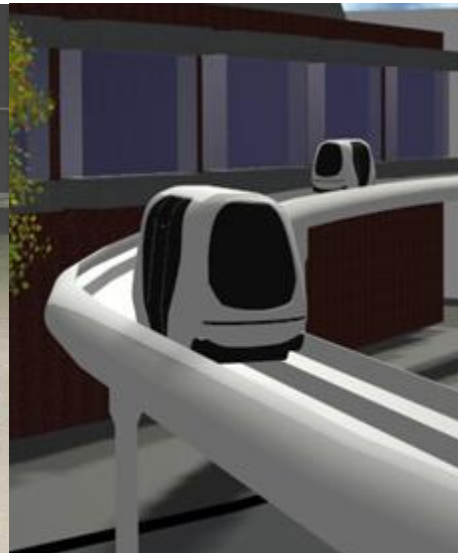


Advanced City Cars, PRT and Cybercars, New Forms of Urban Transportation



Adriano Alessandrini

CityMobil Evaluation SP leader

DITS Rome



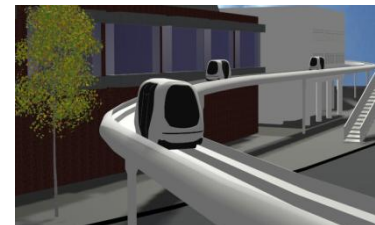
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Background

- 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

CityMobil Advanced Transport Systems

- Advanced city cars: city vehicles integrating driver assistance and other features to be better used in car-sharing services.
- PRT: small fully automatic vehicles operating on guide ways, segregated from pedestrians and other traffic
- CyberCars: fully automated road vehicles for individual or collective transport, for specific areas with little or no interaction with other (manual) vehicles



CityMobil approach

- Three large scale demonstrations
- Technical developments on vehicles and infrastructures
- City studies
- Small demos
- Showcases

Reference Group Cities

Almelo

Almere

Cardiff

Clermont-Ferrand

Daventry

Gateshead

Genova

Hyvinkää

Halver

Helmond

La Rochelle

Lausanne

Limeil-Brévannes

Milano

Montbéliard

Opole

Orvieto

Santa Margherita Ligure

Trondheim

Uppsala

Valencia

Vienna

Selection methodology

- Each city had to propose one or more sites for a potential showcase
- Each application had to be “pre-designed”
- Local objectives had to be defined
- User needs had to be analysed
- A form measuring the compliance of each site to each criteria had to be filled

Ranking criteria

- National and local transport strategies and plans
 - Application consistency with local, regional and national plans for transport
 - Application consistency with legal framework
- Site-specific criteria
 - Project progress
 - Integration opportunities
 - Technical feasibility
 - Stakeholder acceptance
 - Data availability
- Criteria related to the project consortium
 - CityMobil partner involvement in the local project

Other selection criteria

- Geographical coverage
- Vehicle availability (within the showcase WP of CityMobil) for the specific application
- City willingness to cover its own costs

Selected showcases

- Cybercars showcases
 - Daventry
 - Hyvinkää
- Advanced city cars
 - Genova
 - La Rochelle

Daventry showcase outcomes

- Open from 24.09.2007 to 05.10.2007
- 3 permanent vehicles (plus 2 other vehicles)
- Conference hosted on 26.09.2007 by the City Council with more than 200 attendants
- Coverage by BBC (news - live morning show - BBC world service, 60M audience reported by BBC), article in THE INDEPENDENT, local TV and 1st page on regional newspapers
- 9 school groups visited on week 1 (~180 children)
- 10-15 individual visitors daily

Daventry showcasse pictures

The Gusher

Daventry Express

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Daventry bids to be global leader in transport innovation

Ambitious pod plans to show to the world

By Alice Dyer
@daventrytoday

UNIQUE public transport system costing around £10m could make Daventry a world leader in innovation, a conference was told this week.

More than 100 representatives from around the globe are in town this week for a much anticipated Daventry Transport Conference 2007, where talks were given and debates were held on the potential benefits of Personal Rapid Transit (PRT) and other related transport technologies.

Alan Vincent, Daventry District Council's head of road service, told the conference yesterday (Wednesday). He has an extensive youth agenda and we want to demonstrate to the world that we can lead on something as innovative as a PRT system.

"We want people to be proud of the town they live in."

World leader: Daventry District Council leader Chris Millar and head of paid service Ian Vincent with an example of a PRT driverless pod. (see page 2)

The proposals include a state-of-the-art public transport system, to replace the existing bus network.

Demonstrations of a number of driverless PRT vehicles are currently taking place along Eastern Way as part of a national showcase, due to run until October 5.

As part of the event, which has received media attention across Europe, yesterday's conference attracted leading experts of pioneering transport solutions.



'We want to demonstrate to the world that we can lead on something as innovative as a PRT system. We want people to be proud of the town they live in.'

Alan Vincent DDC

"Everywhere in Daventry will be in easy reach of one station or more."

"This system would put Daventry on the map."

The study revealed that 10km of track - 50 per cent of which would be at ground level - would be required to serve Daventry and three would be in stations across the town, including one at Long Buckby train station.

The energy efficient, battery powered vehicles would provide an automatic, per-second service the people, and it would cut the number of parking spaces in the town by 1,000. Although the cost to build it would be around £10 million, the running costs would be low because there would be no driver and no fuel.

Chris Millar, leader of the district council, said: "We truly believe the people of this town and district will benefit from what we are trying to achieve."

Daventry needs a new system. We are trying to get people out of their cars and into another form of transport."

The transport conference was ongoing as the Daventry Express went to press yesterday.

For more on the pod visit www.daventrytoday.co.uk

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Town gets first taste of planned new pods

By Alice Dyer
alice.dyer@daventrytoday.co.uk

STATE-OF-THE-ART driverless vehicles have taken to the streets of Daventry, giving residents a possible glimpse into the future.

A national showcase, organised by the European Commission CityMobil 5th Framework Programme for Research and Technological Development, has descended on Daventry this week in an attempt to show residents potential alternatives to public transport in the town centre.

Many people find it difficult to get from one side of Daventry to another on public transport.

"This system is environmentally clean and it's a flexible system."

"It's not just an exciting prospect."

Chris Millar, leader of Daventry District Council, was invited to the demonstration area and members of the public are being encouraged to take part in the showcase, which has attracted media attention across Europe.

Residents would be able to travel on a driverless vehicle from dozens of stops across the town, including one at Dauntsey School, and it would be navigated by a satellite navigation system.

The innovative transport system, which is hoped would encourage investment into the town, would eventually replace Daventry's bus network, if it is given the go-ahead.

A pilot scheme, with a proposed test system around Norton Road and Middleton, could be in place by 2008.

Michel Parent, director of French national research institution INRIA, who has been spearheading the CityMobil project Europe-wide, said: "I think it's a very exciting opportunity to have a town like Daventry that is so interested in future technology."

"This is a unique case because we have the right kind of space in town to deploy the technology."

"Officials in Daventry really have the will and motivation to try something that has never been tried before."

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Find out about a 'bizarre' experience

By Alice Dyer
@daventrytoday

DAVENTRY Express reporter Alice Dyer was the first media representative to ride on one of the PRT vehicles. Here she describes her trundle down Eastern Way.

"I DON'T know a lot about technology, but what I do know is that the concept behind the Personal Rapid Transport (PRT) is very clever."

Sitting in one of the driverless vehicles and riding down the Eastern Way cycle path on Tuesday was really quite bizarre.

"Our driver" or should I say the man operating the vehicle, began by navigating it manually with a little joystick, and this way it can reach up to speeds of 30mph, which is very impressive indeed.

Daventry needs a new system. We are trying to get people out of their cars and into another form of transport."

The transport conference was ongoing as the Daventry Express went to press yesterday.

For more on the pod visit www.daventrytoday.co.uk

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about the PRT system for the Daventry Express, and having the pleasure of riding in a PRT. I am all in favour of it being brought into the town.

In theory, it all seems too good to be true - dozens of transport stops across the town which would take you to pretty much anywhere in Daventry, environmentally friendly, and more accessible than buses.

What do you think?

Write to Letters to the Editor, Daventry Express, 63 High Street, Daventry, Northants NN11 1AA.

Email editorial@daventrytoday.co.uk

Text DEVENTRY (space) and up to 160 characters to 08707, because the standard number for text messages is 160.

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An example of PRT: the ULTRA test site



An example of cybercar: Yamaha minibus automated by INRIA

