

ON FOCUS:

Traffic Congestion – An Everyday Certainty

HOW TO SAVE MILLIONS

Congestion Management on German Motorways

OPTIMIZED CONTENT ADMINISTRATION

Software Platform Delivers Boost in Performance

ECO-FRIENDLY COLLECTION AND DELIVERY OPERATIONS

Good Practice Guide on Urban Freight Transport





Contents

ON FOCUS

- Traffic Congestion – An Everyday Certainty 04



TRAFFIC

- Assessing the Overall Economic Impact of Transportation Systems 09
- Having Fun with the New Versions 10
- Users Group Meeting 2007 – Highlights and Awards 11



MOBILITY

- Research on Vehicle-to-infrastructure Communication Funded by the European Commission 13

- Easy Riding with the International Motorcycle Trip Planner 14

- Software Platform Delivers an Absolute Boost in Performance 16

- Fast Response to Calls for Assistance 17



LOGISTICS

- Going Global with a New Set of Planning and Visualisation Tools 18

- PTV and SAP Extend Partnership 19

- Trip Planning with New Driving and Rest Times in Germany 20

- Good Practice Guide on Urban Freight Transport 21



- INTERNATIONAL TRADE FAIRS 24



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Research on Vehicle-to-infrastructure Communication Funded by the European Commission

The European Commission has devoted EUR3.62 billion of the EUR17.5 billion Sixth Framework Programme budget to one of the main research projects concentrating on "Information society technologies". Also, over EUR20 million are dedicated to research on next-generation electronic information systems for road networks in Europe. PTV is a member of the CVIS consortium (Cooperative Vehicle Infrastructure Systems), which consists of 60 project partners. Together they concentrate on solutions which allow vehicles and infrastructure elements to co-operate and to exchange up-to-date traffic-relevant data.

The aim is to show how this new communication, interaction and co-operation system can help improve traffic safety and reduce congestion and pollution.

Communication is the basis for a broad range of services

All communication platform participants create both ad-hoc and permanent networks. Each vehicle and road infrastructure element (e.g. traffic lights) sends and receives information from other "nodes" within the network. This will result in a wide range of services – from real-time traffic information during the trip and route planning to traffic management services – all based on the actual traffic situation.

Standardised communication and network technology

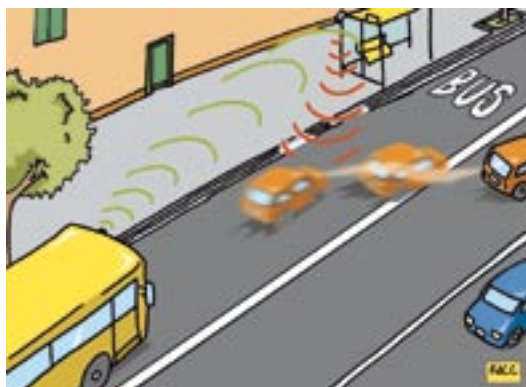
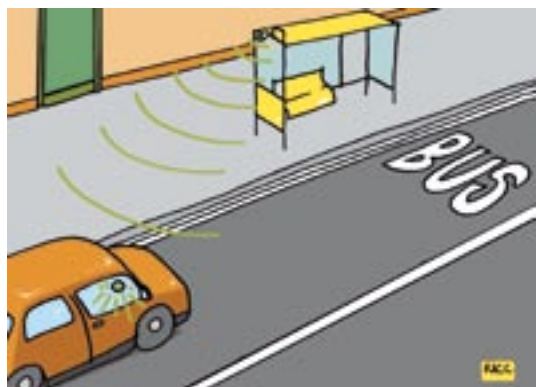
The project's aim is to provide cooperative services throughout Europe. "A standardised technical basis is



Vehicle-to-vehicle communication: The passenger car damaged by falling rocks alerts approaching vehicles to the potential danger.

essential in order to provide and utilize co-operative systems on a European scale," explains Andreas Schmid, Senior Consultant at PTV Germany. The researchers therefore concentrate on the development of a standardised technology for vehicle-to-vehicle and vehicle-to-infrastructure communications. They are setting up a multi-channel router, using numerous potential carrier technologies, such as cellular networks, (e.g. GPRS/UMTS), or mobile, wireless, local networks (e.g. WLAN 8011.2p) and infrared communication, just to mention a few. All carrier media help to either have permanent access to the "new" IPv6 Internet or to constantly provide the neighbour with important information about vehicle movements or dangerous situations in the local area.

Communication will be based on the new international CALM standards (Continuous Air Interface for Long and Medium Range). CVIS is currently testing this technology with the aim to create a solution allowing vehicles from different brands and traffic management



Communication between vehicle and infrastructure: The bus stop identifies the approaching bus and transfers this information to the vehicle allowing the driver to change lanes early.

systems from various European manufacturers to communicate with each other. CVIS applications and core technologies will be tested at different test sites in six European countries, covering urban, inter-urban and commercial environments.

Technologies and applications required for this project will be developed in close cooperation with other project partners involved in European ITS projects, such as [SAFESPOT](#), [COOPERS](#), [SEVECOM](#) or [SISTER](#). In addition to the communication platform, CVIS also provides an open Middleware platform based on JAVA-OSGi.

Important prerequisite: Close cooperation between all parties involved

All parties involved in the project need to cooperate with each other, not just in terms of technology. This is the key to ensure success of cooperative vehicle-infrastructure systems. Andreas Schmid says: "Motorists must, for instance, be ready and willing to share data with other road users, or car makers must equip new vehicles with in-vehicle communication devices. This is indeed a major challenge for the project partners who have to create a pan-European solution!" 🗨️

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Easy Riding with the International Motorcycle Trip Planner



Jacques, a French road rider, is meeting a group of motorcyclists while taking a break at a hotel located on Schwarzwaldhochstraße, a very popular scenic road through Germany's Black Forest. He tells them how he has planned every detail of his 4-week summer trip around Europe with the PC-based route planner [MOTO Journal](#). The software provides users with a wealth of useful information – from the most popular biker hotels and greatest mountain passes to plenty of information about highlights along the route. Jacques read about the desktop product in the [MOTO Journal](#) published by Motor Presse France. Although riders in Germany have been using the [MOTORRAD](#) trip planner for many years, it has not been available in France until 2007.

For more than eight years, PTV AG (until the middle of this year under the roof of its subsidiary MAP&GUIDE GmbH which recently re-merged with its parent organisation PTV) and its business partner Motor Presse have successfully marketed premium products for riders in Germany. PTV's [MOTORRAD](#) trip planner is

the leading motorcycle route planning software in Germany. In early 2007, the company therefore started several projects focusing on Motorcycling and Camping in France, Spain and the Netherlands. Dutch motorcyclists plan their trips using a licensed release of promotor onroute, which PTV's business partner WayPoint, in cooperation with [ANWB](#), offers its customers in the Netherlands. Customers can select between Dutch and English when using this bilingual product for route planning.

Target group specific products

"Not only do users benefit from versions translated in the language in use in their country, but also from tailor-made products to best suit our customer's unique needs. These customized products result from our market expertise and close co-operation with our business partners. This is also the reason why our special-interest products, such as the [MOTORCYCLE](#) trip planner, have become a great success," says Sylvia Römer, Product Manager for PC Route Planners at

[MapIT with PC-based route planners for South Africa](#)