

TSB FAV

NEWSLETTER

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EDITORIAL

Due to an internal re-organisation of the Technology Foundation Berlin (TSB) - FAV's "parent company" - we have established a new modified logo and some new elements for our corporate identity within the TSB Group. By the beginning of 2007, the leadership of the FAV has been transferred from Wolfgang H. Steinicke to Thomas Meissner, whereas Wolfgang Steinicke further on supports FAV tasks, e.g. as the Secretary General for the EURNEX European Rail Research Network of Excellence.

However, the trademark "FAV Berlin" remains and FAV's mission remains the same - to strengthen the Center of Excellence for Transport Technologies in the German Capital Region - by developing creative networks covering industry, scientists and authorities and by initiating and sometimes coordinating of innovative R&D projects on regional, national and international level.

The recently started FP 7, onto which FAV put a lot of resources for project preparation with partners, is definitely an excellent programme to launch future oriented projects. But there are further opportunities for international cooperation: With this newsletter you will learn more about the Asia-Pacific-Weeks in Berlin, September 2007.



Thomas Meissner
Managing Director
FAV Berlin/TSB



THE FAV AT THE ASIA-PACIFIC WEEKS 2007

This year's highlight of cooperation with Asian regions are the 6th Asia-Pacific Weeks (APW) in Berlin from September 10th to 23rd, 2007. The APW are an initiative of the Mayor of Berlin and take place every two years. They create a platform for political, economical, cultural and scientific exchange with partner countries in the Asia-Pacific region and demonstrate Berlin's function as "Gateway to Asia".

The FAV organises the event "Urban Transport & Mobility Cluster", corresponding to the main topic of this year's APW: "Asia-Pacific changes the world." During their tenth anniversary, the Asia-Pacific Weeks are dedicated to the influences of the Asia-Pacific region on the western world, especially the change in metropolitan areas. This topic is extremely important, as large urban areas must increasingly establish global networks to guarantee sustainability of their complex infrastructures. The event "Berlin-Brandenburg's Transport & Mobility Cluster meets Asia" is divided into five parts:

- The opening event with introductory presentations
- Sustainable transport & mobility
- Accessibility for all - easy going
- Potentials in telematics cooperation between Asia and Europe
- Future developments in aeronautics



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Aim is to expand contacts and cooperation with Asian partners in the area of transport and mobility as well as to strengthen the internationality of science and economy in the region. Therefore the FAV has built-up alliances with Asian partners. These include the Japanese Institute for Transport Policy Studies (ITPS), the Hong Kong University of Science and Technology, the Beijing Institute of Technology and the Tongji

University Shanghai.

Some examples for mutual benefit are:

- New technologies for efficient transport management, for

analyses, new concepts and substantiated recommendations for efficient traffic solutions as well as organisational and management methods provide important decision-making tools when it comes to setting the directions for maintaining mobility in the future. Within the Business to Business (B2B) field, we develop individualized mobility services for passenger and commercial traffic based on current as well as forecast traffic situation data. Route planning and dispatching processes are optimized by integrating actual traffic data and calculated forecast data into

logistics software.

In addition to the above outlined activities, VMZ Berlin also operates a comprehensive mobility portal for the Berlin-Brandenburg area. The website (www.v mzberlin.de) provides up-to-date mobility information such as maps on the current and forecast traffic situation, various dynamic routing services for private and public transport as well as information on traffic disturbances and construction sites in the road network.

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**FRAUNHOFER INSTITUTE FOR SOFTWARE AND SYSTEMS ENGINEERING
 ISST**



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Demand orientation and adaptability are of crucial importance in transportation information or more general mobility services in order to ensure the delivery of the right information at the right time and to the right place and person. The complexity of the problem of optimizing the information supply of a user – while simultaneously preventing information overload – is further increased by its dynamic nature. The needs for information change with the situation of a user.

These issues are addressed by the area of information logistics, which is one major research theme of the Fraunhofer Institute for Software and Systems Engineering ISST. Within this theme the Location based Services department – headed by Prof. Agnès Voisard – focuses on methods and frameworks for situation-based information and service provision and their application in the area of transportation and mobility.

The basis is provided by the development of “situationalization” approaches (i.e., situation-based approaches to a dynamic personalization of mobile services) and the development of situation acquisition, anticipation, management, and provision technologies. This technology framework provides for integration and an integrated interpretation of data that comes from different heterogeneous sources like

personal and environmental sensors, navigation systems, weather forecasts, or the user’s personal digital organizer in an unified and consistent manner. On that basis ISST develops concepts (e.g., for situation-based navigation) that additionally take the expectations of the users, their habits, and their



Mobile Navigation Service

familiarity with a certain situation (e.g., including their local knowledge or their familiarity with the use of certain public transportation means) into account.

The research results are applied in projects ISST is carrying out with partners from research and industry. One of these projects is TRANSIT (www.transit4events.org) where ISST developed transportation related information services such as intermodal door-to-door navigation and orientation services for

visitors in the context of large-scale distributed events, and tested them during the FIFA World championship 2006 in Berlin. The user-centered personalization and demand-orientation concepts developed at ISST were reflected in the functionality and user interfaces of the services. The navigation service for users of public transportation and pedestrians, for instance, uses picture sequences to guide a user (e.g., a foreign guest) to the nearest tram station or show the way on the »last mile«, that is, the way to the stadium entrance or the user’s seat. The tests showed that this technology is best used in dedicated areas such as event areas, airports, and so on, and can also be applied indoors.

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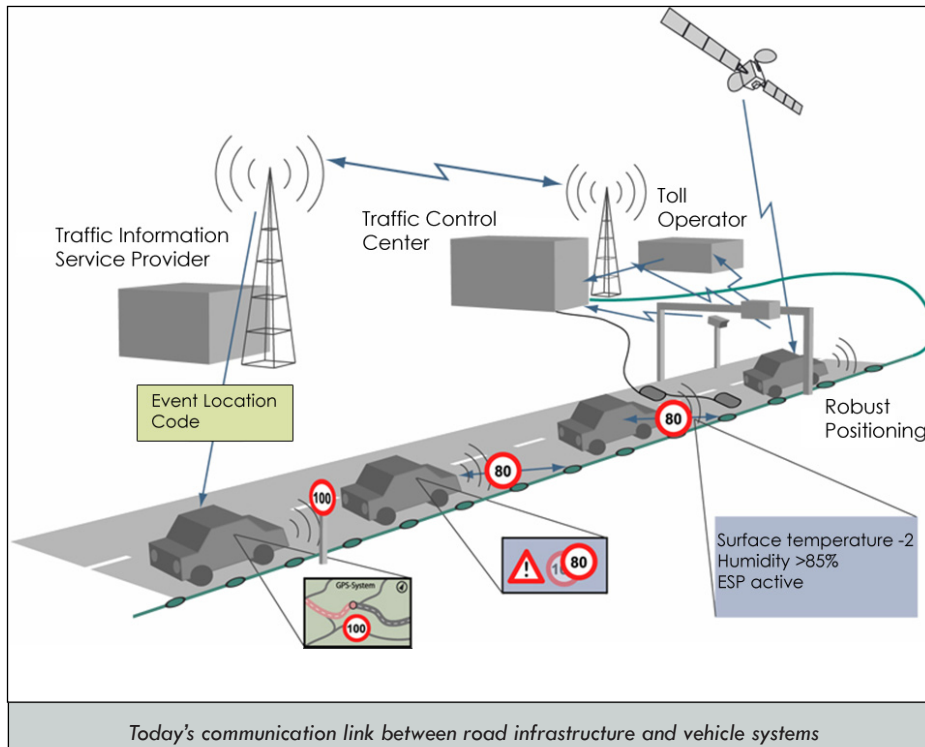
New techniques & methods are requested to move increasing numbers of vehicles (~+50% by 2015) safe, efficient & environmentally sustainable through the existing road network.

Co-operative systems enabled by enhanced telematics (vehicles & infrastructure) allow to handle dense traffic safe & efficient. Complementing the running research for in-vehicle technology & vehicle to vehicle communication (V2V) innovative solutions for communication between infrastructure & vehicles (I2V) have to be established to explore these options targeting a better use of the available infrastructure capacity.

The integrated European R&D project COOPERS focuses on the development of innovative telematics applications on the road infrastructure with the long term goal of a „cooperative traffic management“ between vehicle and infrastructure, to reduce the self-opening gap of the development of telematics applications between car industry and

infrastructure operators.

infrastructure by more efficient infrastructure to vehicle communication.



The proposed approach will allow the infrastructure operator to react in real time on the varying traffic demand and traffic situation.

To realize the project goals of COOPERS there are working 36 european research and industry partners and infrastructure operators.

The role of the FAV is the management of dissemination and the co-ordination

The role of the road operator will change and has to be redefined in terms of his obligation for precise, reliable & real time information & liability. Allowing authorities to adjust their investments in road infrastructure safety with the advances in vehicle safety, minimizing redundancy of investments.

Cooperative road infrastructure systems will result in multifunctional solutions that require less investment than autonomous systems.

COOPERS will support the demand to handle more vehicles in the given

tion of the Berlin demonstration in the second quarter of 2008.

UPCOMING EVENTS

10.9-23.09.2007 Asia -Pacific Weeks Berlin - www.apwberlin.com

29.11-30.11.2007 Integration Conference EURNEX www.eurnex.net

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