Travellers owning a smartphone and being “always online” should be excellently informed. Navigation services calculate the fastest or shortest route from any origin to any possible destination. Recent services provide information on accidents or short-term road-works. But does this inflation of traffic information services facilitate a more reasonable and efficient use of transport infrastructure and mobility services? Wouldn’t it be more reasonable not only to provide pre-trip information for planning a journey but also to guide a traveller during his or her trip? Why not take other modes of transportation into account instead of only recommending the use of an alternative route? Why can’t the suggested routes adapt to the users’ preferences interactively?

Vielmobil is co-funded by the State of Hesse within the sustainability strategy “Mobility 2050”. The project partners RMV – Rhine/Main Regional Transport Association, Hessen Mobil – Hessian Road and Traffic Administration, traffiq – Local Public Transport association of Frankfurt and the ivm have committed themselves to providing intermodal real time traffic information and to operate a web-based service for planning individual mobility and, in the future, on-trip guidance. www.vielmobil.info
IndiVIduAl prEFErEncES And Traffic MAnAGEMEnT STrATEGIES

Vielmobil targets the growing demand for mobility by easing the use of different modes of travel during one journey. By providing real-time information connected to regional and local traffic strategies the user is given the possibility to choose from different mobility options regarding their individual preferences, as well as the demand for sustainable mobility. In the long term Vielmobil is expected to contribute to a more homogeneous and less congested traffic network.

FROM nAvIGATIon To GuIdAncE

Be it pre-trip or on-trip information – Vielmobil adapts to individual appropriate use. At the current stage it allows comfortable trip planning on a computer. With further development, Vielmobil users will be able to transfer the planned route to a personal account and retrieve it again on their smartphone. Also, spontaneous trips can be planned directly and stored on their mobile device. The actual trip is displayed on the mobile device, with the route and forthcoming way-points marked on a map. In case of relevant incidents or delays occurring in the course of the planned trip, the user will be informed in sufficient time. Vielmobil will then not only suggest different routes but also offer alternatives on how to continue the trip incorporating different modes of transport.

For the Frankfurt RhineMain region, the answer to these questions is Vielmobil, an individual intermodal mobility information and guidance service. Providing dynamic information to facilitate intermodal changes and attracting travellers to more sustainable modes of transportation is the fundamental objective of Vielmobil. To reach this goal several issues are being solved with the Vielmobil approach:

DATA INTEGRATION

As done in other projects, Vielmobil integrates the already existing static and dynamic traffic-related data. This includes dynamic traffic flow data, dynamic traffic messages on roadworks, accidents and congestions. The information is complemented with data of facilities for Park + Ride and Bike + Ride. Besides road-related information, public transport operators provide static data such as the location of stops and the corresponding time tables, as well as dynamic real time information. The available data on network infrastructure is supplemented by cycling routes and footways.

In contrast to other approaches Vielmobil does not only focus on primary road networks. Through a successful cooperation with local authorities, information on the secondary traffic infrastructure could also be integrated. Therefore Vielmobil can rely on a comprehensive data-pool maintained by different regional and local authorities.

INDIVIDUAL PREFERENCES AND TRAFFIC MANAGEMENT STRATEGIES

Vielmobil takes the growing demand for mobility by easing the use of different modes of travel during one journey. By providing real-time information connected to regional and local traffic strategies the user is given the possibility to choose from different mobility options regarding their individual preferences, as well as the demand for sustainable mobility. In the long term Vielmobil is expected to contribute to a more homogeneous and less congested traffic network.

FROM NAVIGATION TO GUIDANCE

Be it pre-trip or on-trip information – Vielmobil adapts to individual appropriate use. At the current stage it allows comfortable trip planning on a computer. With further development, Vielmobil users will be able to transfer the planned route to a personal account and retrieve it again on their smartphone. Also, spontaneous trips can be planned directly and stored on their mobile device. The actual trip is displayed on the mobile device, with the route and forthcoming way-points marked on a map. In case of relevant incidents or delays occurring in the course of the planned trip, the user will be informed in sufficient time. Vielmobil will then not only suggest different routes but also offer alternatives on how to continue the trip incorporating different modes of transport.

www.vielmobil.info

FEATURES OF VIELMOBIL

- Vielmobil takes the restrictions due to low emission zones into account.
- Vielmobil provides an interactive park + ride routing and gives the possibility to easily change the suggested parking facility.
- Vielmobil enables the user to move the suggested route and thereby adapt it to individual preferences.
- Vielmobil considers restrictions of the traffic network due to roadworks or events.
- Vielmobil offers a comparative presentation of the available modes of transportation.
- Vielmobil delivers the shortest or fastest route based on a multimodal network graph – regularly updated and easy to edit via web client.