

# VIB – Bavarian Traffic Information Agency. BayernInfo.de Portal

Central Building Department of the Bavarian Ministry of the Interior

*The Free State of Bavaria cooperates with VIB (Bavarian Traffic Information Agency) that has developed and operated a Bavarian-wide platform for traffic information. At [www.bayerninfo.de](http://www.bayerninfo.de), the Free State of Bavaria provides the services “Traffic Condition“, “Travel Information“ and “Bavaria’s Cycle Network“ free of charge to the public.*



## Challenge

Provision of services to citizens and authorities: traffic reports and forecasts, dynamic and intermodal journey planner. The areas of application range from tourism and leisure services to traffic and infrastructure management and administration.

## Solution

### Traffic models

PTV deploys a wide spectrum of methods to determine the traffic volume on roads and what future development looks like:

### ASDA/FOTO

This method invented by Daimler research uses the traffic data collected by

detectors to calculate the current traffic volumes and travel speeds on motorways. The calculations are performed every minute. Only recently has VIB also used ASDA/FOTO to make short-term forecasts (for up to 60 minutes).

### PTV Validate

This approach is based on assignment modelling and is used to calculate the traffic volume on the entire road network. This product can be used at PTV throughout Germany. This method was extended for Bavaria: With the „online“ implementation, scheduled changes to the network (e.g. limitations through construction work) are now accounted for on a daily basis in a 365-day preview.

In addition, a holiday forecast created for this project is also taken into account when calculating the traffic volume. This means there is a separate travel demand forecast for every day which considers both the typical travel demand and any changes during the holiday season.

When combining the results of all methods for certain times and places, you receive the most accurate traffic forecast for Bavaria.

To supply the system with a map basis and reference data, we used INTREST as a joint data model and reference system. Maintenance of the map and infrastructure data is carried out in INTREST. For information, such as POIs, detectors,



Siemens and PTV Planung Transport Verkehr AG in Karlsruhe jointly founded an operating company responsible for operating the system and its services for a period of ten years.

Further Bayerninfo partners are Mentz DV (intermodal routing and cycle network) and micKS (weather).

stops, location codes and reports, the map or infrastructure data is used as a reference.

## Result

The public has access to the services provided at [www.bayerninfo.de](http://www.bayerninfo.de).

### These services include:

#### Visualisation of the traffic condition

Based on the PTV Mobility Platform, the current traffic situation and all forecasts, including traffic reports, will be displayed on a map. Forecasts are available for up to 365 days into the future. The current traffic information includes warnings about aquaplaning or the slipperiness of roads due to bad weather.

#### Intermodal journey planner

From address to address or from stop to POI – by train, bus, tram, metro, ship, car, bike or on foot – you can plan your

individual journey for any route.

When calculating your journey by car, all forecast data will be included. For route calculation, quarterly-hour forecasts for the day are used, predicting the traffic situation at the time of your journey. After all, current traffic information is only good for the moment – and normally does not tell you anything about the traffic situation in a few hours!

#### Bavaria's cycle network

Do you want to go on a bike ride in Bavaria? Bavaria's cycle network contains all cycle paths in Bavaria and detailed descriptions of interesting sites. The primary function of the service is door-to-door intermodal routing. The individually planned journeys can later be transferred to a GPS device.

