URSA MAJOR *neo*

Optimisation of the Bavarian Traffic Information System BayernInfo

The Bavarian Traffic Information Centre (VIZ-BY) has been collecting all Bavarian traffic data for all modes of transport since 1996. The traffic information from this centre is used for the Bayerninfo.de website. At the same time the VIZ-BY also serves as a data source for internal applications such as the construction site management system or for applications in traffic control. It also serves as a platform for data transfer to the national access point, the Mobility Data Marketplace (MDM).

The data pool contains the following information:

- Reports on dangers and other events from various sources

- Jam messages from an automatic jam alarm generator

- Reports on approx. 1,000 construction sites per year

- Traffic locations for the entire strategic network (all motorways and subordinate routes)

- Approx. 100 cameras on motorways and 50 cameras on truck parking spaces

- Critical local weather reports from more than 17 million weather data and road weather reports for more than 2,200 motorway sections
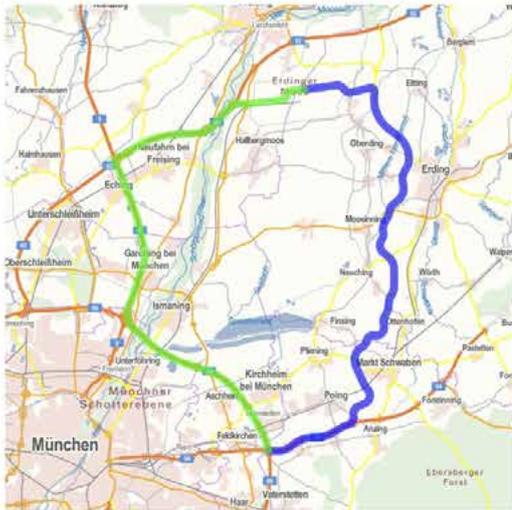
- Live data on public transport

The overall system was further expanded within the URSA MAJOR neo project.

For the construction site area, the work site integration system (Arbis) was connected to VIZ-BY. Arbis is thus the primary data source for construction sites. This allows construction site information to be passed on to users with much greater accuracy. The network of traffic cameras is continuously being expanded to include additional locations, and mobile construction site cameras are also being procured for construction work. All traffic data converging in VIZ Bayern will be made available in DATEX II format via the national access point MDM to data collectors and service providers.
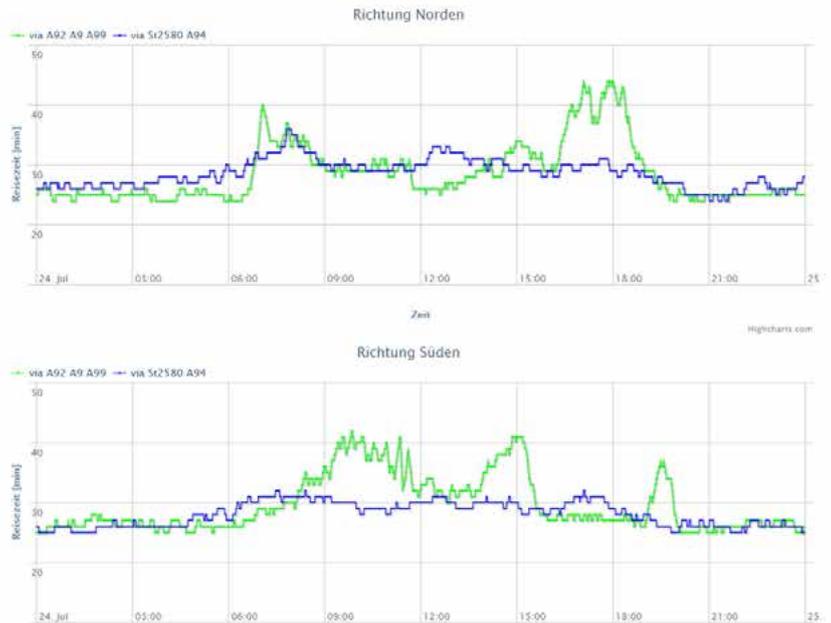
Travel time comparison on alternative routes A99 / St2580

The entire web portal of Bayerninfo (frontend and middleware) will be revised and technically and functionally updated within UMneo. This concerns among other things:

- Updating databases of the subcomponents
- Restructuring of data processes
- Modernization of interfaces
- Front end modernization (look & feel, touch operation, vector maps)

One focus of the measures in UMneo is on the topic of Floating Car Data (FCD). Real-time data based on FCD is purchased and processed in VIZ-BY to determine the traffic situation.

By using this data source, a nationwide and high-quality traffic situation can be determined.

Traffic reports in the security-relevant area are obtained from existing sources (e.g. police) as before.

FCD can also be used for other applications. A "Detector Health Tool" compares the measurements of stationary detectors with FCD-generated average speeds and can be used for plausibility checks of the sensors. Another application is the use of FCD for alternative route recommendations. A comparison of the travel times on the main and alternative routes is an important decision aid for the operators when switching changeable direction signs. For this purpose, a tool was developed that suggests an alternative route to the operators from a certain difference in the two travel times.

For further information please contact

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