

# URSA MAJOR <sup>★★★</sup> neo

## Project description: Verkehr.NRW

The traffic information portal Verkehr.NRW of the federal state North Rhine-Westphalia (NRW) provides road users with up-to-date information for car and bicycle traffic as well as public transport. The current traffic situation on motorways as well as extra-urban and urban main roads is presented - not only for North Rhine-Westphalia, but for entire Germany and the Benelux countries.

### Standards

Verkehr.NRW consistently relies on the use of open standards and open source software. The map for example is based on Open Street Map (OSM), in other words a map created by citizens for citizens. Changes are realised very quickly by the community and new versions of the map are continuously and automatically adopted by Verkehr.NRW, so that the latest data is always available. The level of detail of the map is very high so it even includes footpaths.

### Timeliness and details of dynamic information

The majority of the information displayed at Verkehr.NRW is updated every minute. The traffic situation is based on the evaluation of Floating Car Data (FCD). Construction sites and closures are displayed as location-accurate as possible, including specifications on traffic routing. This means that the exact track layout is displayed and provided with further information, e.g. relevant for large capacity and heavy goods vehicle traffic. Webcams are located at neuralgic points in the North Rhine-Westphalian motorway network in order to be able to visually display the traffic situation to drivers and operators in the NRW Traffic Centre. In addition to an up-to-date picture of the traffic situation, a live stream is also provided by the service. Of course, Verkehr.NRW can calculate routes to individual destinations and display all known events with regards to the chosen route.

## Interfaces

The Mobility Data Marketplace (MDM) of the Federal Government uses the standardised DATEX II format and serves primarily as a hub for data exchange between data sources and Verkehr.NRW. Many municipalities already have made available a standardised publication of their data on the MDM. The data integration into Verkehr.NRW is only a small configuration task. Verkehr.NRW supports proprietary data sources with individual interfaces, such as parking data. In case that only raw data is provided by the parking guidance system, Verkehr.NRW provides an adaptable conversion service in order to incorporate the data seamlessly. This represents an important contribution to improving mobility and Smart Cities.

## Operation

Verkehr.NRW can be expanded at any time, due to its standardisation and modular structure. Thanks to the sophisticated user guidance, Verkehr.NRW is becoming increasingly popular: currently up to 100,000 visits are counted daily (one visit is identified with an IP address website counter). Furthermore, Verkehr.NRW can be accessed by everyone via the internet from a wide variety of devices, and there is also an app for all common smartphones.

Verkehr.NRW is operated completely self-sufficient with self-scaling hardware, so that spontaneous peak loads can be covered with high performance.



Verbindungen für Auto, Bus&Bahn\*, Fahrrad\*\*  
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