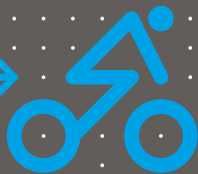


MODE OF TRANSPORT:



BIKE

MENTZ Cycle Route Planner

at the center of new mobility

Application

Product

MENTZ
Cycle Route Planner

Features

Intermodal routing,
Bike navigation,
OSM database,
Offline-capable apps

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The MENTZ Cycle Route Planner – an Important Contribution to Mobility

Bikes are one of the most important modes of transport in the field of mobility. Understood as “multimodality”, the ability to mix different means of transport has kept the industry busy for years. Bikes are particularly integral to urban mobility. In the past they were used mainly for leisure or sport, but now bikes represent a large percentage of the commute to work. The numbers from the modal mix, which is the volume which is the distribution for various types of transport, are rather conclusive. For example, as part of the “Bike Capital” initiative, the City of Munich was able to raise the percentage of bike use for commutes from 11% to 17% in only eight years.



MENTZ supported this development from the beginning by supplying multimodal journey planning. In fact, multimodal information has been part of EFA for more than 10 years (e. g. Bike & Ride, Kiss & Ride or Park & Ride) and other means of transport like car-sharing are continually being integrated into the system.

In addition, transport authorities like the Stuttgart Transport and Tariff Association (VVS) have been using the MENTZ cycle route planner (CRP) for some time. In conjunction with the state-wide platform "Bayernnetz für Radler" in Bavaria, such offerings were the beginning of a whole range of other projects like the CRP for Transport for Ireland and Transport for London, the CRP for the Munich Transport Authority (MVV) and the City of Munich as well as the CRP for the State of Baden-Wuerttemberg. These projects also contributed to the further development of the topic of cycle routing. Another important milestone was the introduction and implementation of Open Street Map (OSM) as a routing basis.

For a long time, the commercial GIS data, which are optimized for cars, had to be arduously refined to incorporate cycle attributes. With the implementation of OSM to DIVA GIS over the last three years, a real alternative can be offered to replace this cumbersome process. The OSM data is modelled correctly in urban areas with a number of cycle specific attributes. When changes need to be made, they are performed by a large number of activists from the OSM community, which results in data that are both detailed and up-to-date. MENTZ recognized these possibilities earlier on and is able to process the OSM GIS-data structures quickly and consistently in all routing modules.

Similar to EFA systems, the layouts of apps and desktop applications are customer-specific and provide functionally different options.



Fig. 1
The MVV cycle route planner with speedometer and display of cycle transport on the train



Fig. 2
The BW cycle route planning app also shows rental bike availability

**Pinakothek der Moderne
(Museum of Modern Art)**
Munich





Angel of Peace in Munich
 Corner of Prinzregentenstraße/
 Widenmayerstraße,
 Munich



Fig. 3
 Display of traffic load on
 the streets of Dublin



Fig. 4
 The new VVS cycle
 route planning app

The decision how and which features should be offered to consumers is not always easy. As part of a collaboration between the City of Munich, the MVV and the University of the German Federal Armed Forces, the web portal of the MVV cycle route planner was analyzed. In addition to statistical evaluations, consumer surveys were conducted. The positive results of the study were presented to the public and will be fed into future enhancement of and upgrades to the cycle route planner. The study can be found at the following web address of the Sueddeutsche Zeitung (in German): <http://www.sueddeutsche.de/muenchen/studie-was-muenchner-radler-bewegt-1.2920184>.

MENTZ cycle route planners now navigate areas across Ireland, Greater London, Baden-Wuerttemberg and Bavaria and will be expanded to cover all of Germany. Part of this strategy is to continually develop the apps. The cycle route planning app is similar to the MENTZ Companion in the realm of public transport. As a licensed product, the option is provided to brand specific areas of the app to meet customer needs. The first expansion phase "Speedometer & Tracking" was released in May. Bikers can display core values on a speedometer and trace the travelled route and save it. The second phase is dedicated to the topic of "sharing" content, or the exchange of planned and travelled routes between users, and between desktop and app.

MENTZ Cycle Route Planner

**English Garden,
 Chinese Tower**
 Munich

