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T5.02.: DE Management Software for a new Mobility Management Center

Overview/ summary (around 200-300 words) To be used on website and newsletters, together with pictures

The state of Baden-Württemberg in southern Germany is currently planning a mobility management center (MMC) to implement sustainable intermodal mobility by implementing integrated traffic management strategies based on real-time traffic information, especially in metropolitan regions. The underlying traffic management plans specify measures (e.g. dynamic traffic light control, alternative route recommendations, travel time information, transfer control, route control, public transport prioritization, parking space management, etc.) that are used to respond to situations (e.g. traffic jams, accidents, events, air quality, etc.). The MMC or the traffic management system is responsible for implementing the measures. The planned traffic management system should also have a strategy workstation for the internal supply of the aforementioned strategies as well as an analysis platform for analyzing traffic problem areas in the network or for evaluating implemented strategies. Both subsystems will be implemented using a modern IT architecture that aims to use market-ready software solutions and interfaces. This ensures interoperability and scalability. In order to meet the cross-departmental requirement, both subsystems will be implemented as web interfaces, which enables them to be used by actors in regional traffic management within the metropolitan areas of Baden-Württemberg. After commissioning, the MMC will have a modern central infrastructure that meets the latest technical standards and will be staffed around the clock in 3-shift operation. In addition, it will fulfil the requirements for critical infrastructures for both IT and property protection in accordance with the specifications of the Federal Office for Information Security (BSI). In addition to regional dynamic traffic management, the MMC is also expected to centrally monitor 45 tunnels on federal and state roads.

Introduction: General background: why is this project happening?

Traffic infrastructure is opposed to a growing number of users. Beyond that, the transport sector faces the big challenge of decarbonisation. To increase the performance of the existing infrastructure and to enforce sustainable mobility, an intermodal and intelligent traffic control will be established. For this purpose, problems in traffic flow are identified and appropriate strategies are developed (e.g. signalization, recommendation to switch transport mode). The novel approach connects different stakeholders and does not focus on only one stakeholder, e.g. road authority.

The core message Objectives, Results expected, Project description, Implementation schedule

Modern and climate friendly mobility needs intelligent traffic flow management, which addresses all stakeholders and all modes of transport. The MMC aims to achieve these goals by establishing a platform for different stakeholders to plan and execute defined intermodal strategies. The MMC is scheduled to start in 2027.

Further reading If readers want to know more, where can they go to? Whom can they contact?

Further information can be supplied by the Ministry of Transport Baden-Württemberg.
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Pictures/Media/video's/newsitems

system sketch traffic management system BW