ITS Upper Austria 2

Up-to-date traffic information for citizens and logistics companies plays an important role in the Upper Austrian region, both from a traffic planning and a strategic point of view. In order to be able to implement traffic management initiatives and modern mobility concepts, the generation of a real-time traffic situation and traffic forecasts is inevitable.

As part of EVIS.AT, the focus in Upper Austria in recent years has been on the development of an infrastructure that provides real-time traffic situations and traffic forecasts as well as efficient incident management. For the acquisition of the required sensors and the subsequent calculation of the real-time traffic situation, based on the network graph GIP.AT, different sensor types such as vehicle detection loops, bluetooth sensors and floating car data (FCD) were installed during the first phase of the project. The upcoming second phase of EVIS.AT is co-financed by the Upper Austrian Transport Department with the ITS Upper Austria 2 project (ITS = Intelligent Transport Systems). With ITS Upper Austria 2, the federal project EVIS.AT will be completed at Upper Austrian level and the traffic management system generated in EVIS.AT will be put into operation. The ITS Upper Austria 2 consortium consists of RISC Software GmbH and the University of Applied Sciences Upper Austria - Logistikum Steyr.

The first half of ITS Upper Austria 2 focuses on the implementation of EVIS.AT by 2020. Special focus will be placed on the optimization of the existing data basis by combining different traffic sensor data or extending it by integrating additional data sources. In order to carry out data analyses and quality checks, historical data will be stored in a statistics tool, which is constantly being further developed. Another essential component of the first project phase is the optimization of the traffic simulation to fill gaps in the database. This includes improving the calibration and validation processes of the traffic simulation with the overall goal of generating a reliable real-time traffic situation and a realistic forecast for typical traffic days. This real-time traffic information and the traffic forecast are an essential basis for route calculations of subsequent systems. In Upper Austria, for example, this applies to the route calculation of the "Lisi-Go" app. In addition, the information also serves as a basis for the Traffic Information Austria (VAO).

The second half of ITS Upper Austria 2 consists of preparing the operational phase of EVIS.AT after 2020 from the Upper Austrian Transport Department perspective. For this purpose, an activity plan and service management for the transition of the project into the operational phase in 2021 will be set-up. In addition, long-term forecasts for vacations, public holidays and special occasions (i.e. events etc.) are to be made possible.

The continued operation of EVIS.AT will ensure the supply of real-time traffic information to Upper Austria, thus laying an important foundation for innovation. Future topics such as automated driving and cooperative vehicles (CCAM - cooperative connected and automated mobility) will benefit from a high-quality database. Real-time traffic information also offers the opportunity to better plan mobility needs. This influences the choice of means of transport, departure times and the overall traffic situation. However, owning real-time traffic information also means independence from international corporations like Google or TomTom for carrying out necessary tasks such as traffic information.

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