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Abstract

Travel demand models are an important tool for transport planning. They are used in cities and regions to reproduce existing conditions in a transport network and to evaluate the impacts of future developments or planned transport measures. Thus, travel demand models support transport planning, operational planning, traffic engineering and transport policy decisions.

Since the model results are the foundation for a variety of decisions, the users of such models expect an appropriate quality of the results. Based on the observation that different travel demand models are used in practice, whose resulting quality is usually not verifiable by the user of the model results, the project aims to formulate requirements for the structure and quality of travel demand models. This should serve as a common basis for the practitioners and the developers of travel demand models. To achieve this goal, the project provides the following content:

- An overview on travel demand models,
- A description of the scope of travel demand models and the resulting requirements for the model development,
- Recommendations for the development and the application of travel demand models in municipalities and regions,
- Quality indicators for model quality assessment,
- Lists for documenting the requirements,
- A template for a tender document,
- Specifications for the documentation of travel demand models.

The results of the research project will support users and developers of travel demand models in the development and application of travel demand models. The results shall enable planners to build on the results of high-quality travel demand models in the transport planning process.