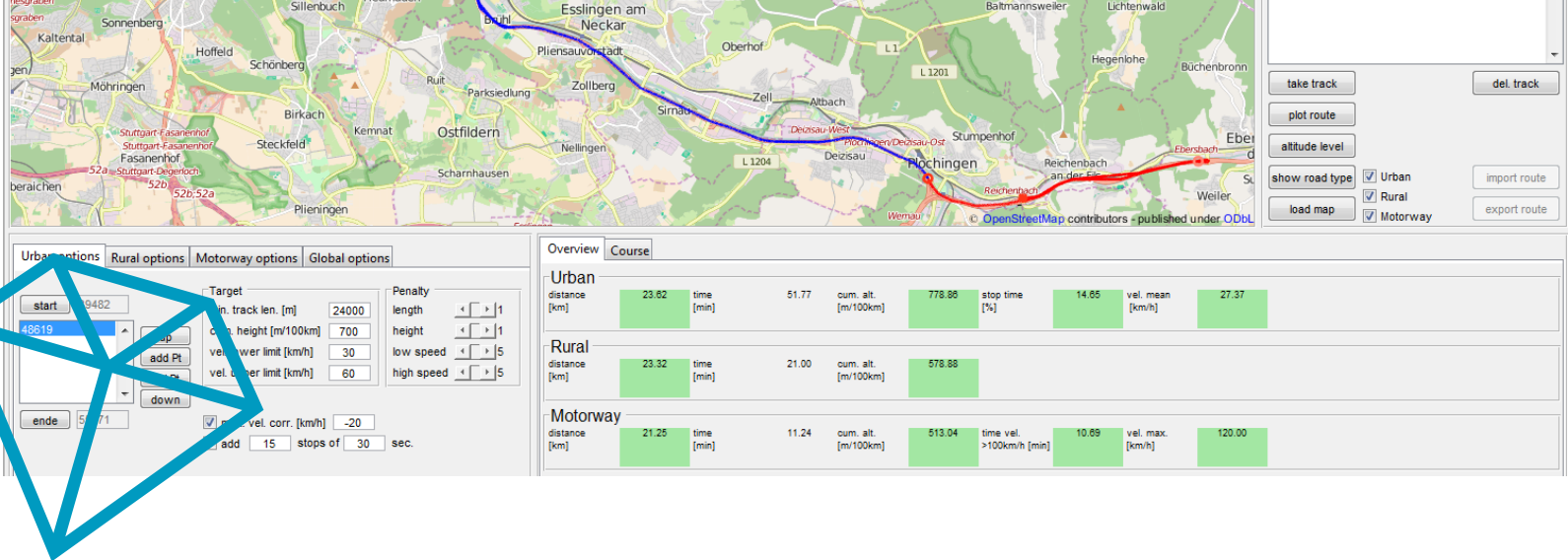




Veris®
analyze | generate

In a nutshell

INTERACTIVE
ROUTING

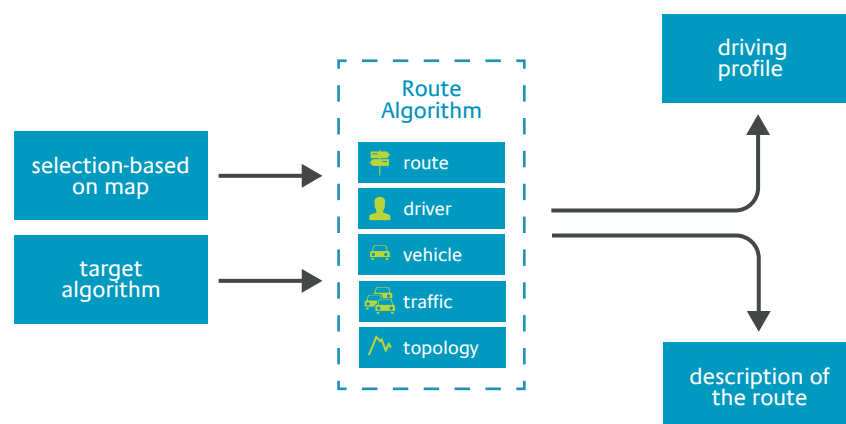
SIMULATION-
BASED
ROUTING

VIRTUAL
TEST DRIVE
ARRANGEMENT

COMPILATION OF
BENCH AND
SIMULATION
CYCLES

Tests in real environment are not only cost-intensive but also time-consuming. Legislation demands more and more of tests in real driving environments. One strategy to fulfill these requirements is to employ digital methods for better planning, for fast and efficient realization and better validation. This is exactly where **Veris®** steps in.

Significant Advantages | **Veris®** allows in-depth planning of on-road tests with respect to an extensive list of settings. The most critical deployment scenarios of your vehicle or system can be identified via digital methods. The corresponding routes and test cases can be generated. Consequently, precise product development requirements can be elicited in the early development stage based on map and route information.



Use Cases | The modular structure and the consistent development strategy of standardized interfaces at TWT allow the application of **Veris®** in a variety of fields. For example in context to tough requirements with respect to emission standards and the associated tests additional **benefits** may be **achieved** in the following scenarios:

- successful RDE (Real Drive Emission) measurements by simulation-aided routing
- prediction of worst-case RDE measurements
- virtual reproduction of RDE measurements
- virtual determination of load collectives of the power train
- virtual compilation of RDE test-bench cycle
- generation of simulated load case based on maps
- analysis of test drives



FEATURE LIST

- Ability to interactively block road connections
- Interactive selection of start, end and intermediate points based on maps
- Variation of objective function for route generation
- Visual illustration of route and driving profile
- Generation of the speed profile based on driving performance, driver and statistical influence of traffic
- Analysis of speed and height profile with respect to statistical values (power binning, trip dynamics)
- Export of driving profile and route
- Segment editor

PROVIDED FILE FORMAT

Map systems HERE

OpenStreetMap
Further informations on request

Output format

GPS Exchange Format (.gpx)
Comma Separated Values (.csv)
MatLab Formatted Data (.mat)

ROUTING TARGET SPECS

For RDE (passenger cars) following Commission Regulations (EU) 2016/427, 2016/646 and 2017/1154, other upon request

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