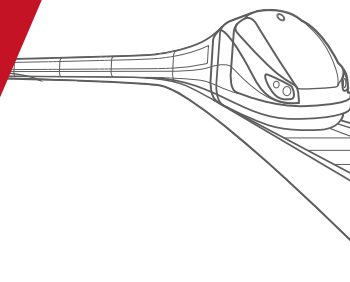


Operation



• CHALLENGES

Local authorities and transport operators are faced with the following problems when they wish to develop efficient public transport lines and networks:

- Is the system capable of providing sufficient capacity to increase the level of service?
- Can vehicles with alternative propulsion guarantee the same operating conditions as today?
- How can the performance of current lines be improved in terms of journey times and regularity?
- Is the maintenance and storage facility of sufficient size?

.....
Provide optimised operating solutions

• OUR ASSETS

Our experienced team will help you to :

- Check the feasibility of a line according to the capacity of the infrastructure
- Create a timetable that is attractive to users and optimised for operations
- Estimate the number of rolling stock required
- Optimise operations in terms of journey times, km travelled and rolling stock
- Estimate operating costs
- Check the robustness of the operation, propose different operating scenarios according to the propulsion modes (electric motors, hydrogen...)

We are involved in all stages of a line creation and network evolution project: from the opportunity and preliminary design phases all the way to the project implementation phase. Our expertises are both on light rail lines and networks, BRT, bus networks or maintenance and storage sites.

• OUR TOOLS

TTK develops dynamic modelling models that reproduce as closely as possible the situation of a real operation using OpenTrack, FBA and VISSIM software. All modelling of existing networks or lines is based either on a first stage of detailed analysis of the data from the operating assistance system (OAS), or by taking operating hypotheses from a local and international benchmark and several feedbacks, serving as a good calibration of the model. Our analyses can also be fed by the field experience of the operator and the organising authority of the Karlsruhe tram and tram-train network (AVG and VBK), which is a real asset for our clients.

The software allows the visualisation of vehicle traffic on the modelled network, thus quickly identifying operational challenges and obtaining reliable quantitative results of the present and future robustness of the system.

