

**PTV VISUM**

the mind of movement

**WHO KEEPS AN OVERALL  
EYE ON TRAFFIC?**





# PTV VISUM

There are simple rules, that control traffic. Why shouldn't transport planning and modelling be as simple as that? PTV Visum allows you to analyse all modes of transport in a single network model. An unbeatable tool for modern traffic strategies and solutions.

## USE CASES

### TRAFFIC MASTER PLAN

- ▶ Import road and rail networks from various sources (OSM, shape, Google Transit etc.)
- ▶ Calculate the appropriate multimodal demand model
- ▶ Choose the suitable assignment method for your model and task

### PUBLIC TRANSPORT PLANNING

- ▶ Optimise line networks
- ▶ Calculate cost-benefit analyses
- ▶ Process operational planning (e.g. line blocking)

### CONSTRUCTION AND DEVELOPMENT OF ROADS

- ▶ Optimise traffic flows by optimal improvement of the road network
- ▶ Model different development scenarios
- ▶ Perform environmental impact analyses (e.g. noise, pollutants)

### ANALYSIS OF TRAFFIC ENGINEERING APPLICATIONS

- ▶ Build realistic node impedance models
- ▶ Automatically optimise signal programs
- ▶ Create simulation network for further microscopic analyses

### ECONOMIC EFFICIENCY ANALYSIS

- ▶ Economic assessment of investments in road construction according to uniform standards
- ▶ Calculate public transport operational costs and revenues from fare systems
- ▶ Support decision-making regarding the measures to be taken





## FUNCTIONS

PTV Visum is a comprehensive, flexible software system for strategic traffic and transport planning. Around the globe, the system is used for metropolitan, regional and state-wide infrastructure planning.

- ▶ Multimodal network modelling
- ▶ Tour-based and 4-step demand calculation
- ▶ Various static and dynamic assignment methods for private transport
- ▶ Two distinct public transport assignment procedures and operational planning modules
- ▶ Traffic engineering incl. signal time optimization
- ▶ Graphical and tabular analyses of results, output of reports
- ▶ Environmental impact evaluation methods
- ▶ Scenario manager for the easy handling of various scenarios



## ADVANTAGES

- ▶ Well known by users, their customers and scientists – worldwide
- ▶ Intuitive user interface
- ▶ Descriptive and convincing results
- ▶ Seamless integration with Vision Traffic suite
- ▶ Strong services available

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## HOW DOES PTV VISUM FIT INTO THE VISION TRAFFIC SUITE?

