

How does the European Commission use modelling to coordinate transport, energy and economic decision making?

Discover how **PTV Visum** helps decision makers to plan for the future.

About TRIMODE, the European transport model

We are developing the European Model, a comprehensive multimodal transport model that covers in detail all freight and passenger transport movements across Europe, together with the economic structures that generate this transport demand and the energy and environmental impacts that it creates. The model will be a robust, fully operational and integrated modelling system with PTV Visum at its heart.

How other customers use PTV Visum:



The Swiss Federal Railways (SBB) uses PTV Visum to plan its operations and ensure that over 1.2 million passengers and 200,000 tonnes of goods reach their destinations on time every day.



The Department of Transport (DoT) of Abu Dhabi utilises PTV Visum to streamline its planning processes and implement a twice-yearly network planning cycle.



PTV Visum - European-wide transportation network.

An aerial view of a city street at night, showing a tram and pedestrians. The street is illuminated by streetlights, and the tram is moving along its tracks. The surrounding buildings are lit up, and the overall scene is a busy urban environment.

PTV Visum is a global traffic planning software, used by more than 10,000 licensed transport professionals worldwide.

Areas of application

Reliable transport planning software

Without a robust and dependable tool, strategies for multimodal transport cannot be defined. That is why you can rely on PTV Visum to provide a holistic overview. PTV Visum creates a digital replica of your transport system so you can understand the issues of today and tomorrow and identify opportunities for intervention.

Comprehensive public transport planning

PTV Visum is the only professional transport modelling software that provides a highly detailed representation of the public transport system. From investing in new lines and stations to changes in timetables and fleet capacity, PTV Visum allows you to develop economically-feasible, demand and service-oriented transport services.

Shaping the future of mobility

PTV Visum is your digital playground. Our traffic planning software is the only platform in the world to model vehicle and ride sharing. We give you the freedom to experiment and that is why you can rely on the software to provide you with continuous innovations to prepare you for future mobility in road traffic planning and engineering.

Advanced method for large scale traffic simulations

A larger scale model can capture traffic and transport simulation accurately but at a higher computational cost. That is why PTV Visum uses Simulation-Based Dynamic Traffic Assignment that combines both microscopic and mesoscopic simulation with extremely efficient runtimes.

Benefits

Save time and money

Saves you time with on-the-fly analysis and lets you test more scenarios to gain deeper insights.

Added value and insight

The details provided with the embedded GIS greatly improve functional performance.

Multi-resolution modelling

Multi-resolution modelling with built-in Dynamic Traffic Assignment on macroscopic and mesoscopic levels, and seamless linkage to PTV Vissim.

Data fusion

Import and fuse together maps from TomTom, HERE and much more.

Standardised but flexible

All the transport planning functionalities you would expect, plus advanced features such as activity-based demand modelling.

Skill up, fast

The software is fast to learn and scripting is optional so you can build a sustainable legacy in no time.

Here for you

Technical support deployed within 24h, with webinars, user group meetings and an active community with large user base.

About PTV Group

PTV Group takes a holistic approach that integrates all aspects of traffic, transport and logistics to create and promote sustainable mobility. Recognized as global market leader, PTV develops intelligent software solutions for transport logistics, traffic planning and traffic management.

Thus cities, companies and people save time and money, enhance road safety and minimize the impact on the environment. Based on its unique expertise in every facet of mobility, PTV ensures that people and goods arrive at their destinations safe and sound, and on time.



PTV Visum at a glance:

- ▶ A digital replica of mobility, land use and socio-demography for gaining a deeper insight in to the challenges of today and future what-if scenarios
- ▶ Connected data hub for fusion, analytics and embedded GIS
- ▶ Develop strategies for future mobility including shared mobility and MaaS
- ▶ Inform cost-benefit appraisal for new infrastructure, land use development, public transport operations, and shared mobility
- ▶ Perfect platform for generating microsimulation models via seamless linkage with PTV Vissim

With over 40 years of experience, PTV Visum is a mobility data hub that supports decision-making across all modes at any scale, and on all time horizons.



“PTV Visum is a well-known, established, and fit for purpose software for the European transport model and database”.

The European Commission

PTV Group

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