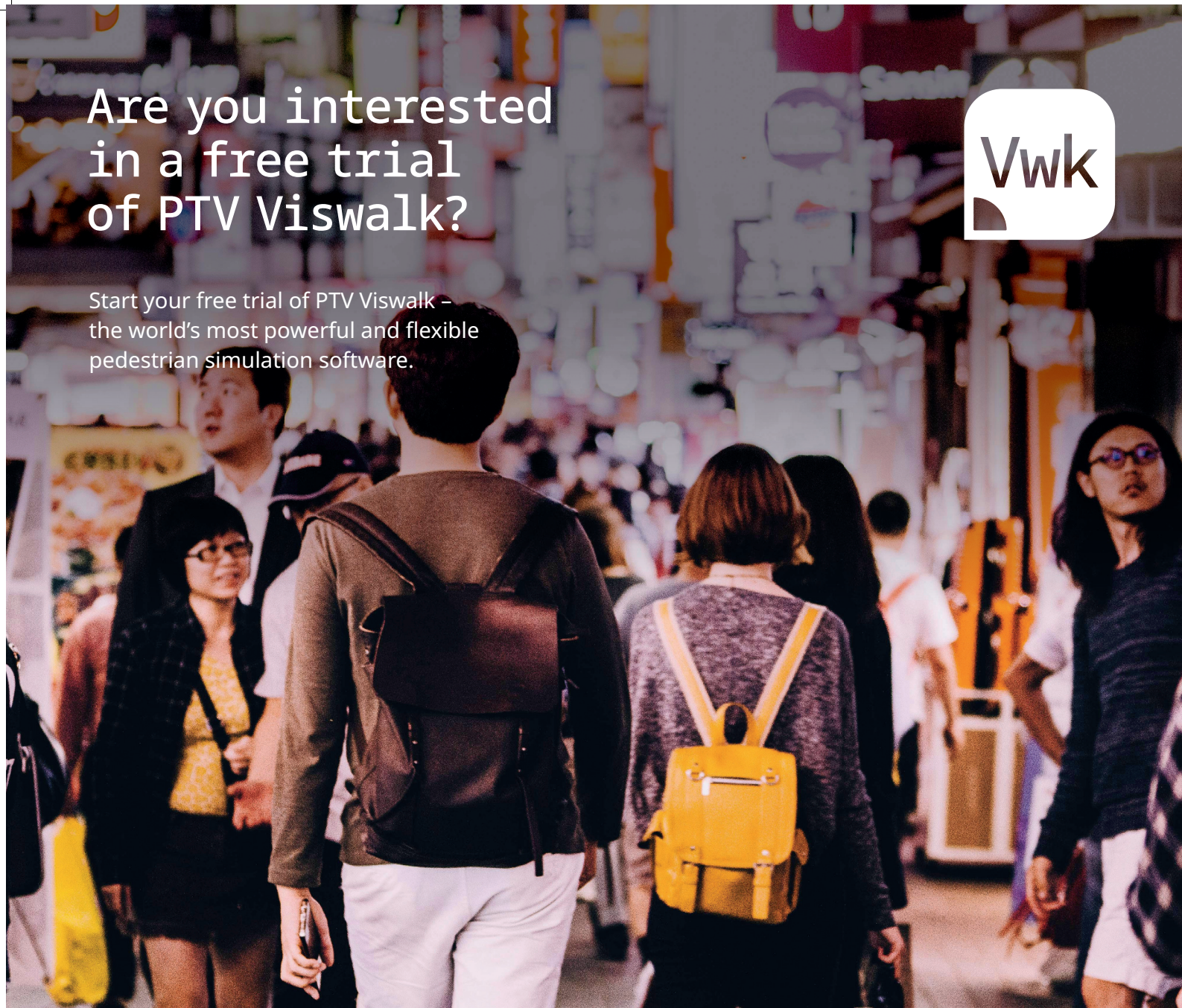


Are you interested
in a free trial
of PTV Viswalk?



Start your free trial of PTV Viswalk –
the world's most powerful and flexible
pedestrian simulation software.



PTV Viswalk in brief:

PTV Viswalk core

Unlike motorized traffic, pedestrian behavior does not follow strict rules. PTV Viswalk's Social Force Model algorithm considers the psychology of walking behavior, at any location or situation. It enhances your modeling with:

- Movement through multi-story buildings
- Crossing streets
- Boarding & alighting from trains at railway stations
- Queuing in elaborate systems
- Bi-directional movement through narrow corridors

PTV Viswalk is used for:

Station planning: compute transfer times, check whether waiting areas are sufficient, assess capacity of corridors

Streetscape planning: measure delay times at signals, check intersection capacities

Fire safety planning: calculate evacuation times, demonstrate effectiveness of measures

Event planning: get waiting times at ingress and delays during egress

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PTV Viswalk

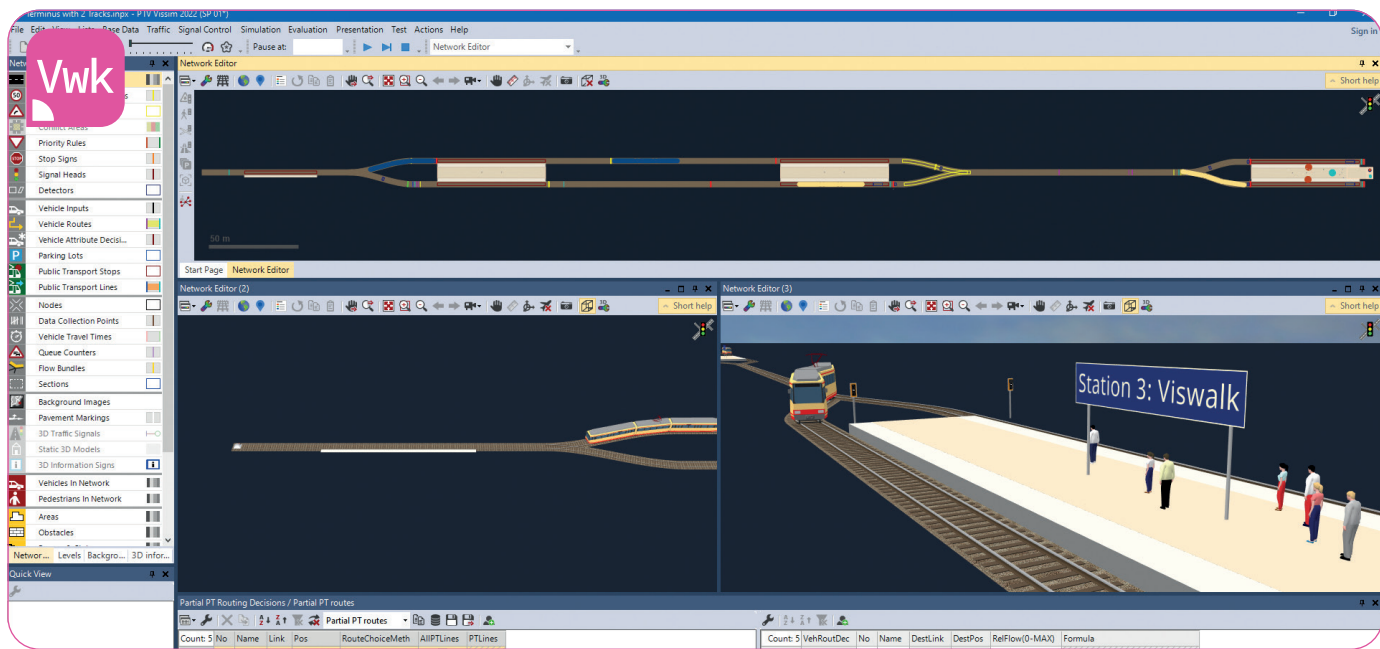
Microscopic pedestrian
simulation software

PTV GROUP
part of Umovity

PTV Viswalk: Realistic multi-environment pedestrian simulation software

PTV Viswalk depicts pedestrians and their interaction with each other. The software enables urban and traffic planners, fire safety officers, and managers of railway stations, airports, and event venues to effectively model and solve pedestrian interaction challenges.

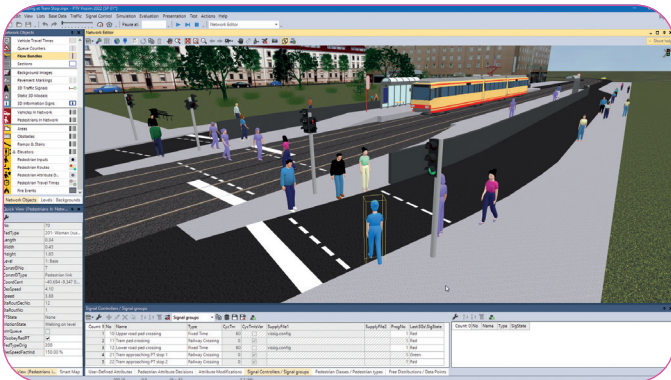
Among other things, the software helps you check passage widths, sizes of waiting areas, travel and waiting times, and ensure safety and comfort.



PTV Viswalk use cases:

Simulating pedestrians in cities

Hurrying commuters, shoppers, wandering passers-by, tourists, joggers – all meet in a limited urban space on foot, bicycle, or car. Conflicts are inevitable. PTV Viswalk's crowd simulation is realistic: It simulates behavior of passengers, pedestrians, spectators, and evacuees – with each other and with other road users, such as cars, buses, trains, and cyclists. The pedestrian flow simulation combines analysis and visualization, making it easy to understand the traffic model.



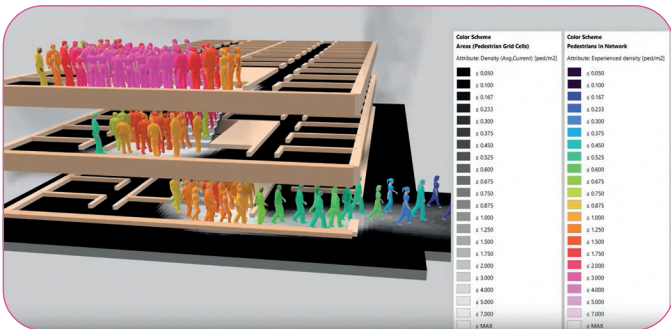
Simulating pedestrian flows in rail stations, stadiums, and airports

The walking behavior of passengers – or passenger flow – is influenced by infrastructure, timetables, and behavior of other commuters. The microscopic, individuals-based simulation with PTV Viswalk gives you a comprehensive overview of the dynamics and paths of pedestrians in intersections. Simulate passenger flows in railway stations, shopping malls, or airports to analyze transfer times and determine capacities of existing or planned infrastructure.



Crowd simulation during evacuations

How long does it take to empty a building in case of a fire? PTV Viswalk provides information about the time needed, and helps you evaluate evacuation scenarios. With PTV Viswalk, simulate and visualize emergencies in 3D, and analyze the effectiveness of different measures.



Do wider doors lead to a faster evacuation, or simply increase congestion elsewhere? Which point in the building is furthest from the exits and possibly too remote for safe evacuation? With PTV Viswalk you can evaluate congestion and evacuation times to assess the effectiveness of measures. Results from Fire Dynamic Simulator can be imported, visualized and considered for simulation and evaluation.

Your benefits:

Intuitive handling: get started quickly



Model creation, simulation, evaluation, and visualization integrated in one software and GUI

Efficient calculation



Simulate millions of pedestrians in one model and up to 100.000 in real time

Scenario Management



Develop multiple scenarios and compare evaluations

Flexibility and freedom



User-defined attributes, formulas, and scripts allow to customize and enhance the simulation highly flexible

Importers: IFC, DWG, SHP



Import geometrical data from CAD (DWG), BIM (IFC) and OpenDrive (XODR) for large models

Seamless integration with PTV Vissim



Easily combine pedestrian simulation with PTV Vissim – the world's most powerful and flexible traffic simulation software

A selection of satisfied PTV customers:



Find more user stories and references on blog.ptvgroup.com