

# VISWALK – Pedestrian Simulation

Walk this way



# What is VISWALK?

The most prevalent mode of transport was and remains – walking. But unlike vehicles, pedestrians are individuals and do not follow strict rules. They spontaneously stop, change directions or make sudden turns.

We have accepted the challenge and in close cooperation with the science community have developed a solution that takes into account the psychology of human walking behaviour. The result is VISWALK, the software tool for pedestrian simulation from the PTV Vision software suite.

VISWALK realistically simulates and analyses walking behaviour as no other software – whether in free space, inside buildings or in connection with mass gathering environments.

VISWALK is suitable for all those who take the needs of pedestrians into account in their projects or studies i.e.: transportation planners and consultants, architects and operators of large buildings and large public spaces, event managers or fire prevention officers.

## What you get out of it

### ► Dynamic routing

VISWALK enables you to perform a simulation where pedestrians not only choose the shortest but also the fastest route to get to their destination – because time really does matter.

### ► Analytical output

Produce with VISWALK high value analytical outputs such as journey times, density levels, level of services (LOS), queuing times and waiting times.

### ► Scientific-validated results

VISWALK was developed in cooperation with the world's leading scientists and researchers and is therefore in simulation allowing you to consider the psychology of walking people.

### ► Impressive 2D and 3D animations

Generate your 2D and 3D animations concurrently.

### ► CAD import

Benefit from import possibilities of common CAD formats as well as import and export of third party visualisation software.

### ► Complete integration with VISSIM

VISWALK integrates seamlessly with VISSIM, the software for traffic simulation, offering you a combination of individual or public transport with pedestrian engineering.



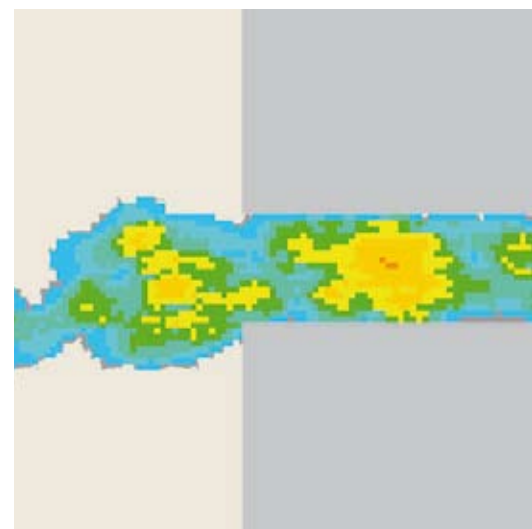
## Use cases

VISWALK is qualified for these and many other fields of application:

- ▶ **Space optimisation and capacity planning**  
Simulate pedestrians' behaviour and design spaces in order to utilize them to the utmost extent. This includes for example shopping malls, stadiums etc.
- ▶ **Evacuation analysis**  
Plan secure ingress and egress flows and escape routes for example for train stations, airports, stadiums etc.
- ▶ **Plan and optimise mass attendee events**  
Develop proper crowd and site management strategies for high density events such as Olympic Games or other important sports events, concerts, festivals, etc.
- ▶ **Routing and queuing analysis**  
Shorten queuing times and guide pedestrians via alternative routes.
- ▶ **Assessment of alternatives**  
Compare costs and efforts of alternative plannings and easily demonstrate the results.
- ▶ **Dwell time analysis**  
Establish boarding and alighting times for public means of transport and use VISSIM to simulate a complete operation of a rail or metro network.

## Benefits

- ▶ **Scientific approach**  
Use simulation software based on latest scientific insights and validated against empirical measurements.
- ▶ **High levels of demand**  
Accommodate an extensive population density of more than 100,000 in a single simulation.
- ▶ **Efficiency**  
Reduce costs and project times by concurrently building your 2D and 3D models directly in VISWALK.
- ▶ **Usability**  
Start immediately your work and concentrate on your project, thanks to easy handling and comprehensive functionality of VISWALK.
- ▶ **Visualisation**  
Simulate 2D and 3D output with just a click of a button.





► Traffic Software  
Logistics Software  
Transport Consulting

**PTV AG**  
Stumpfstr. 1  
76131 Karlsruhe  
Germany

Phone: +49 721 9651-0  
info@ptv.de  
www.ptvag.com



## More than pure pedestrian analysis: VISWALK + VISSIM

VISSIM, the traffic simulation solution from the PTV Vision software suite, started “on the street”. For analysis and simulation of complex traffic situations, it has been used around the world for many years.

Whether you implement urban design plans or plan intersection or junction sequences – with VISSIM you model your influence on traffic flow in the simulation.

Furthermore you are able to measure the impact of traffic and traffic signal control on the respective waiting times.

VISWALK and VISSIM is the fully integrated package from PTV that allows you to simulate the interaction of pedestrians and road traffic.

## The world of **ptv**

PTV Vision is the worldwide leading software suite for transportation planning and operations analyses. PTV Vision provides a full range of solutions – including VISUM, VISSIM, VISWALK and further complementary modules. The software suite offers a high level of integration within the overall transportation planning process and, in particular, between strategic planning, transport operations and traffic engineering for macro-, meso- and microscopic application levels.

## Get VISWALK

For more information on VISWALK visit:

[www.ptv-vision.com/viswalk](http://www.ptv-vision.com/viswalk)

**Contact us:**

Email: [info.vision@ptv.de](mailto:info.vision@ptv.de)

Phone: +49 721 9651-300