

Press release

Vienna, 26.04.2017

Go with the flow

Innovative crowd simulation to analyze complex pedestrian flows

How to optimize pedestrian flows?

Can evacuations be handled safely?

How to evaluate the design of shared spaces?

AIT addresses this challenge with its solution SIMULATE, which offers the perfect tool for answering above questions – and more.

AIT's solution SIMULATE analyzes and predicts complex crowd movements in train stations, airports, shopping centers, sports stadiums or at event locations – the perfect tool for operators and planners. The possible applications range from **validation of architectural plans, evacuation analysis and safety assessment to the optimization of vehicle layouts.**

New feature

AIT's latest developments for SIMULATE enable to examine possible impacts of bus and tram station designs on the passenger flow already during the planning phase. By simulating the movement of passengers inside the public transport vehicles and the interaction with other road users (e.g. cars, bikes) and the built environment of the station, valuable information on the boarding and alighting times, station-level variations and hotspot detection can be identified.

Successful projects

Successful projects executed with partners like Bombardier Transportation Austria GmbH (design evaluation study of the Flexity-Tram for Vienna and Zurich) and Vienna's public transport operator Wiener Linien GmbH & Co KG (simulation and evacuation analysis of planned and existing metro stations) are only some examples of the versatility of SIMULATE.

Next show up

UITP Global Public Transport Summit in Montréal/Canada

15 – 17 May 2017

AIT booth: # 2D100

<https://uitpsummit.org/exhibitors/ait-austrian-institute-of-technology-gmbh/>

About AIT

The AIT Austrian Institute of Technology is Austria's largest non-university research institute. With its eight Centers, AIT regards itself as a highly specialised research and development partner for industry. Its researchers focus on the key infrastructure issues of the future: Energy, Health & Bioresources, Digital Safety & Security, Vision, Automation & Control, Mobility Systems, Low-Emission Transport, Technology Experience and Innovation Systems & Policy. Throughout the whole of Austria – in particular at the main locations Wien Tech Gate, Wien TECHbase, Wien Muthgasse, Seibersdorf, Wiener Neustadt, Ranshofen and Leoben – around 1,300 employees carry out research on the development of those tools, technologies and solutions that will keep Austria's economy fit for the future in line with our motto "Tomorrow Today".

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