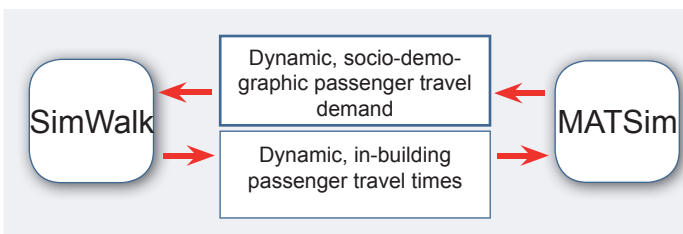# Extending Passenger Flows. Integration with MATSim Large Scale Simulator.

Dynamic and unimpeded passenger flows in public stations are a key aspect of reliable public transport infrastructures. To analyse and improve whole stations or smaller areas, SimWalk Transport offers a leading station design and passenger flow simulation software. For clients who want to model larger areas, up to urban scale simulations, SimWalk now co-operates with Senozon, the service provider for MATSim.

MATSim is a transport planning software to model and simulate individual based passenger travels within very large urban areas. Its core feature is to fully model the activity-based demand (rail, bus, car, walking) of each mobile person during the whole day, including here/his chains of activities and trips. In addition, this personalized demand is directly assigned to given transport infrastructures such as roads and public transit services of various characteristics.

The interconnection between SimWalk and MATSim allows one to extend significantly the analytic and

Business Summary

The combination of SimWalk with MATsim simulator allows to extend medium-scale passenger simulation in rail or metro stations to large-scale simulations of cities or regions. MATSim is a person based travel demand simulation software.

predictive range of passenger modeling and simulation. It provides direct assignment of MATSim's fully person based travel demand to any entrance or exit of station designs in SimWalk to improve the accuracy of passenger flow analysis in time and space. On the other hand, SimWalk delivers detailed in-building travel times of passengers for extending the MATSim demand modeling process.

Senozon

The mobility models of Senozon deliver detailed mobility demand for each individual of an area – microscopic, dynamic in time and fully activity based. It allows the analysis of traffic flows of various modes of transport.

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