

Preferred citation style

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What next?

KW Axhausen

IVT

ETH

Zurich

November 2024

 *Institut für Verkehrsplanung und Transportsysteme*
Institute for Transport Planning and Systems

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Where are we?

Prior work developing MATSim @ ETH, TU Berlin

Prof. Kay Axhausen

Dr. Milos Balac

Dr. Michael Balmer

Dr. Henrick Becker

Dr. Joschka Bischoff

Dr. David Charypar

Dr. Billy Charlton

Dr. Nurhan Cetin

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Dr. Yu Chen

Prof. Francesco Ciari

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Prof. Lijun Sun

Dr. David Strippgen

Dr. Christopher Tchervenkov

Theresa Thunig

Dr. Michael Van Eggermond

Dr. Rashid Waraich

Dr. Dominik Ziemke

Dr. Michael Zilske

and others at TU Berlin

Currently developing and using MATSim known to me

CSFM, ETH Zürich

VSP, TU Berlin

SBB, Bern

System-X, Paris

Replan, Berlin

Simunto, Zürich

Senozon, Zürich

Ming Lu, Guoangzhou

TU Dresden

TU München

Boku, Vienna

KU Leuven

Kyoto University

Hiroshima University

FCL, Singapore

NYU, New York

**Loughborough
University**

MOIA, Hamburg

VW, Wolfsburg

KPMG, Melbourne

ARUP, London

FCL, Singapore

Lost and current Models (2025) as far as we know



What next organisationally?

Organisation

- MATSim association
 - Github
 - New versions
 - Reference collection
- User meetings
 - Annually attached to a larger conference
 - Regional ad-hoc (to become regular ?)
- Hub ?
 - Code development
 - Testing
 - Integration

What substantially?

Data issues

- Provision of open-source demand
 - Persons
 - Households
 - Social networks
 - Behaviour
 - Freight (matrices)
 - In-bound and through matrices
 - Counts across all modes
- Open-source supply networks
 - OSM
 - Walking
 - Cycling
 - GTFS
 - Vehicle fleets

Code issues

- Speed of convergence
- Memory usage

- Maintenance
- Testing

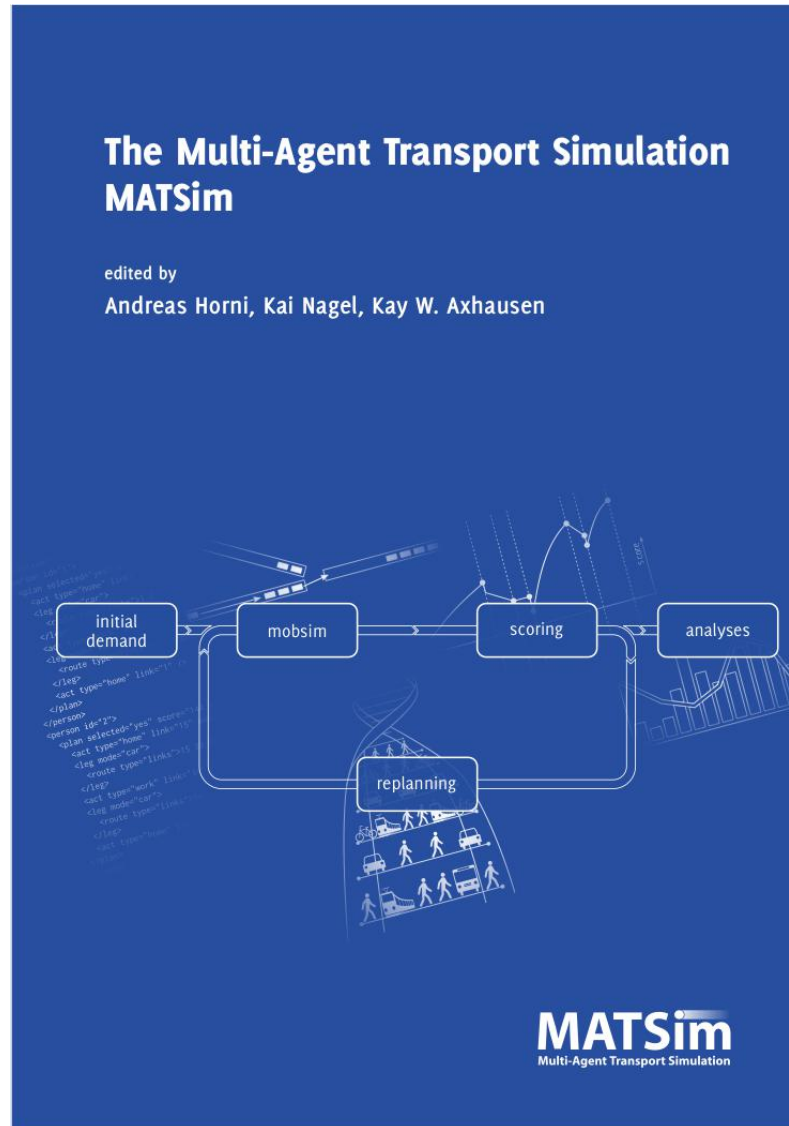
- New versions
- Integration of new elements

- Reimplementation
- New language ?

New capabilities

- "Automated" scenario generation (equasim, etc.)
- Estimated scoring function
 - More work with OASIS
 - More locations
- Freight
- Social networks
 - Generation
 - Interactions
 - Car passengers

New „book“ ?



Questions?

www.matsim.org

www.ivt.ethz.ch