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# Update on MATSim-T

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# Structure

Software:

- Open-source project under GNU public licence

Coordination:

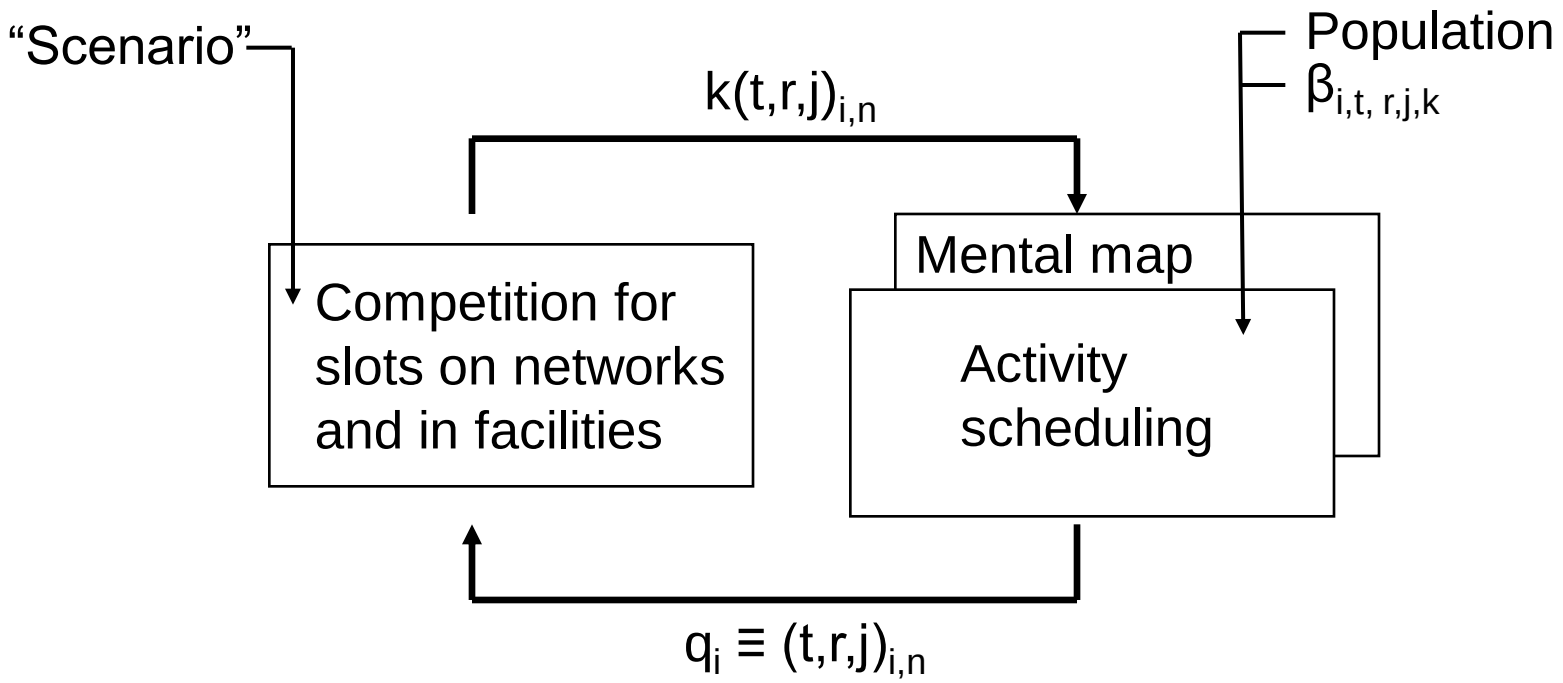
- Kai Nagel, TU Berlin

- Kay Axhausen, ETH Zürich
- Fabrice Marchal, LET, Lyon

# Current team

- Michael Balmer, ETH
- David Charypar, ETH
- Francesco Ciari, ETH
- Mathias Feil, ETH
- Dominik Grether, TU Berlin
- Jeremy Hackney, ETH
- Andreas Horni, ETH
- Johannes Illenberger, TU Berlin
- Gregor Lämmel, TU Berlin
- Michael Löchl, ETH
- Konrad Meister, ETH
- Marcel Rieser, TU Berlin
- Nadine Schüssler, ETH
- David Strippgen, TU Berlin
- Rashid Waraish, ETH

# What does MATSim-T do ?




Demand q are the $i^{th}$movements of person p from the current location at time t on route (connection) r to location j. The resulting generalised costs k are used to adjust the schedules and to change the capacities C and prices P of facilities f

# MATSIM-T: Scale

- Scale: 7.5 mio agents, 1 mio facilities, 1 mio links and nodes
- Continuous time resolution;

- Shared time-of-day dependent generalised costs of travel and activity participation
- Best-response models for schedules and routes
- Choice models for mode and location

- Queuing for slots for movement (and activities)

# Current configuration: Initial demand generation

- *Number and type of activities*
- *Sequence of activities*
  - (Rough) start and duration of activity
  - Composition of the group undertaking the activity
  - Expenditure division
  - *Location of the activity*
    - Connection between sequential locations
      - Location of access and egress from the mean of transport
      - *Vehicle/means of transport*
      - Route/service
      - Group travelling together
      - Expenditure division

# Current configuration: (Iterative) activity scheduling

- Number and type of activities
- Sequence of activities
  - Start and duration of activity
  - Composition of the group undertaking the activity
  - Expenditure division
  - Location of the activity
    - Connection between sequential locations
      - Location of access and egress from the mean of transport
      - Vehicle/means of transport
      - Route/service
      - Group travelling together
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# 2009 configuration: (Iterative) activity scheduling

- Number and type of activities
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# Support

April 21-23rd 2009 Tutorial

April 23-24th 2009 User meeting

# More information

www.matsim.org

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