

BusMezzo Webinar

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Why now?

- Series of projects
 - ADAPT-IT: Analysis and Development of Attractive Public Transport through Information Technology
 - TRANS-FORM: Smart Transfers through Unravelling Urban Form and Travel Flow Dynamics
 - SMART: Simulation and Modelling of Autonomous Road Transport
 - iQMobility: Coordination of a Fleet of Autonomous Buses for Efficient Urban Transportation
- Additional developments in PhD projects, master theses, commissioned projects
- Diverse topics, countries, training, experience, applications, extent of involvement



Who are we?







ERIK

DAVID

TOMER

HEND



HECTOR



WILCO



ODED



FLURIN



MENNO



RAFAL



AREK



JENS

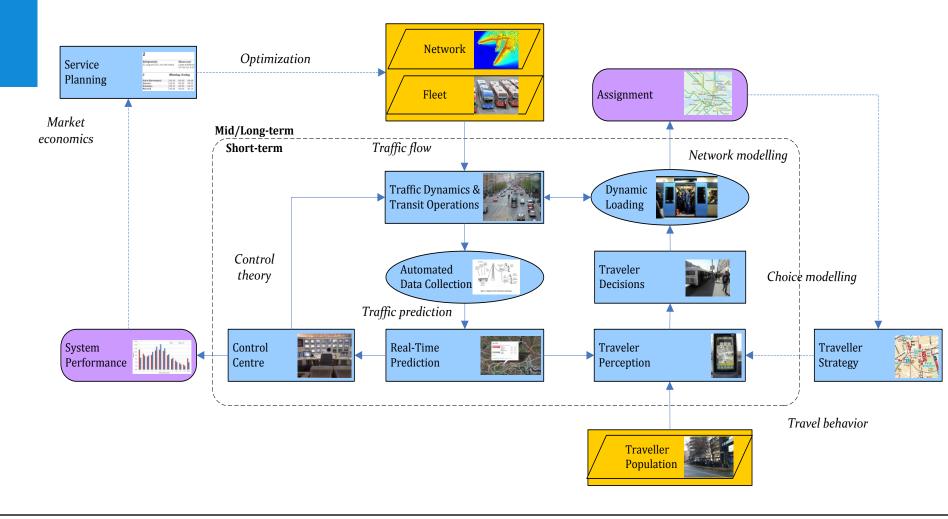


Agenda

- Overview of on-going BM developments
- Updates on development environment and Mezzo editor
- Software development workflow
 - Working with branches
 - Reporting issues, bugs
 - Project board
 - Working with GitHub
- Q&A, open discussion



Modelling framework





Key development directions

- Modular controller and predictor units
- Control: beyond the single line
- Relaxing rigid fixed services
- Crowding: information, propagation, redistribution
- Smartcard input/output data formatting
- BusMezzo/Omnitrans compatibility
- (sub-)network gates
- Using BM as part of tactical planning optimization











Partners















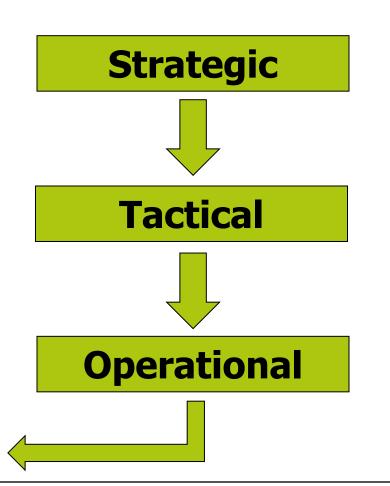




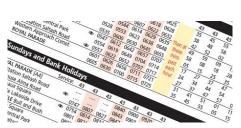




Range of model applications











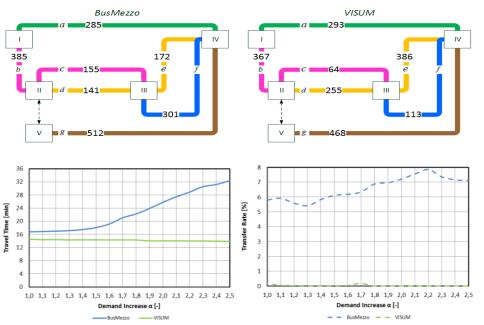


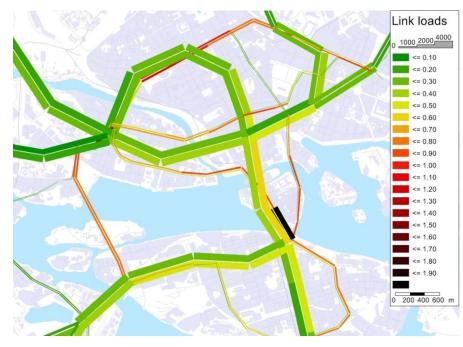




Recent studies

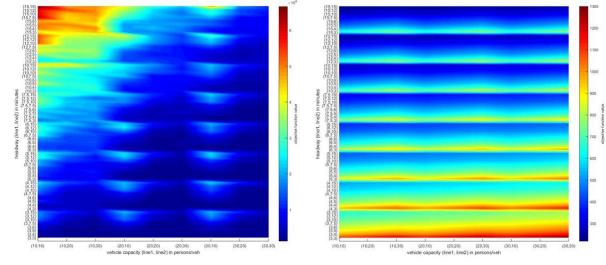
Comparison with static assignment





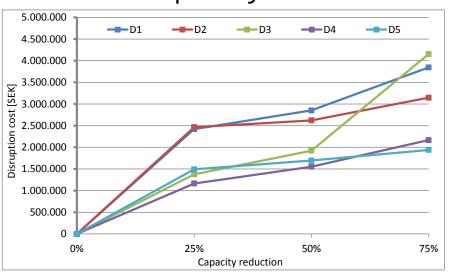
Day to day learning assignment





Frequency and capacity determination

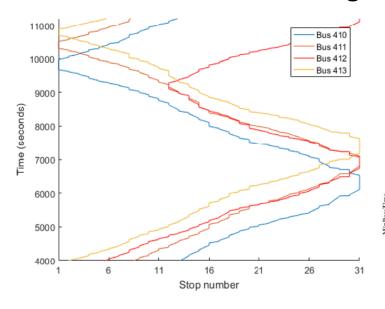
Partial capacity reductions



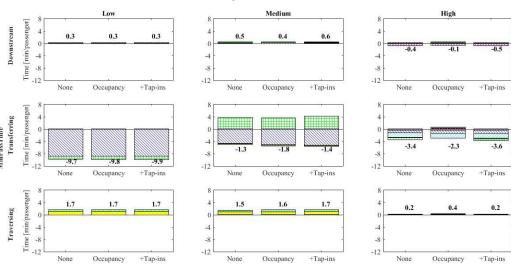




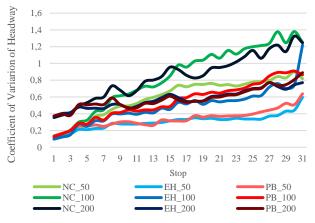
Real-time short-turning



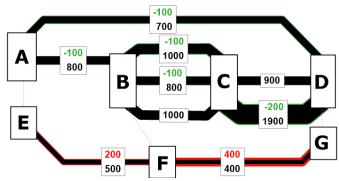
Transfer synchronization



Holding control



Crowding information





Resources

- BusMezzo <u>webpage</u>
- Input/output manual
 - Traffic (Mezzo)/transit (BusMezzo)
- Dropbox with .exe and example networks
- Installation instructions on weblog
- (basic) Editor and GUI
- Program code and project board on GitHub
- Network repository on GitHub

