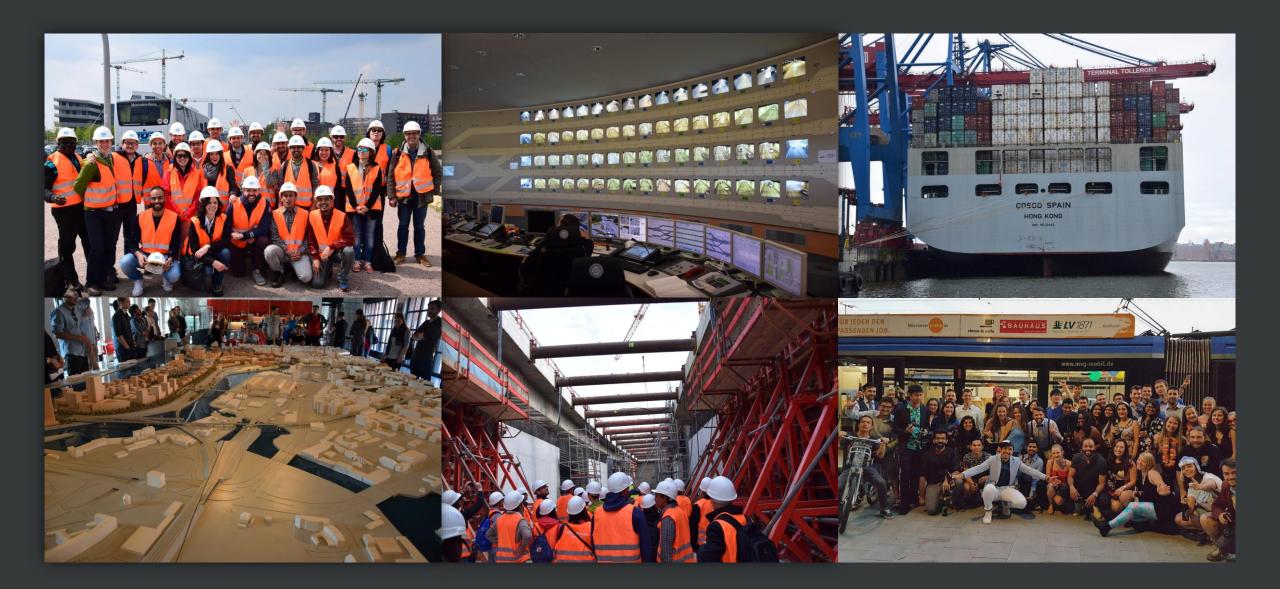
Applying German Spatial Planning



Insightful solutions. Empowering advice. Ruby.Kim@abley.com



*∧*ıabley

Assistant Professorship of Modeling Spacial Mobility TUM Department of Civil, Geo and Environmental Engineering Technical University of Munich

Northeast Munich: Forecasting the Land Use and Transportation Impacts of the Proposed Urban Development

Ruby Kim

12. December 2017





ТШ

Landeshauptstadt München Referat für Stadtplanung und Bauordnung



City of Munich Department of Urban Planning



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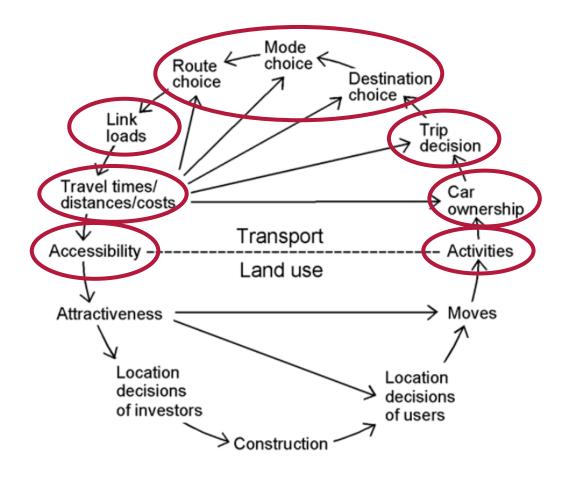
Why Integrate?

- Land Use and Transport Integrated (LUTI) model
- LUTI models are dated back to the 1950s
- Land use and transport are intrinsically linked
- Larger transport projects and urban developments need assessment



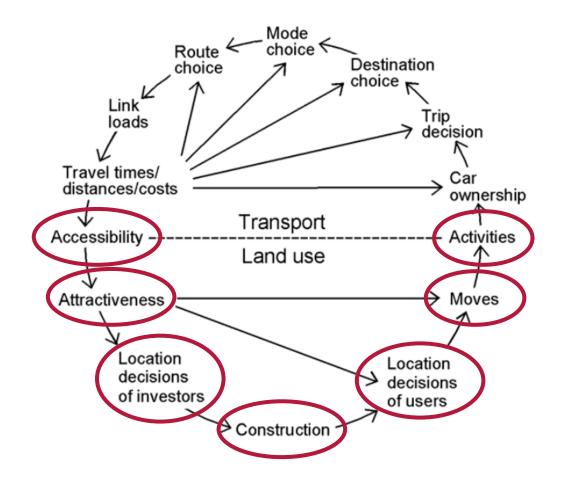
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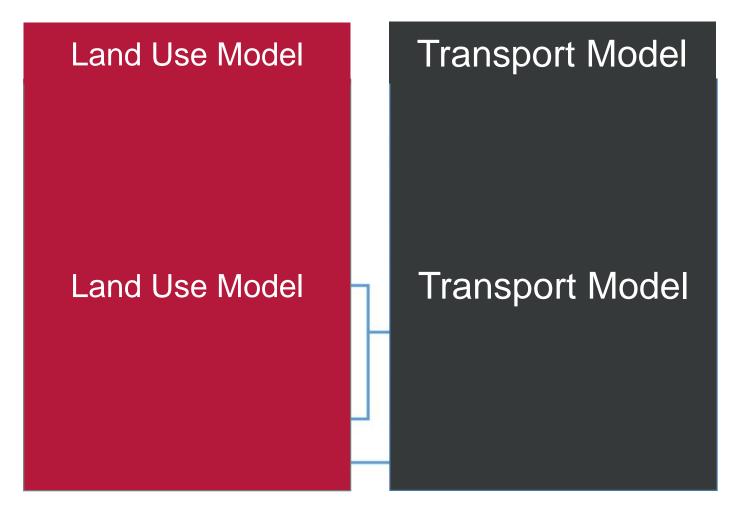
Land Use and Transport Feedback Cycle (Wegener, 1994)





Land Use and Transport Feedback Cycle (Wegener, 1994)





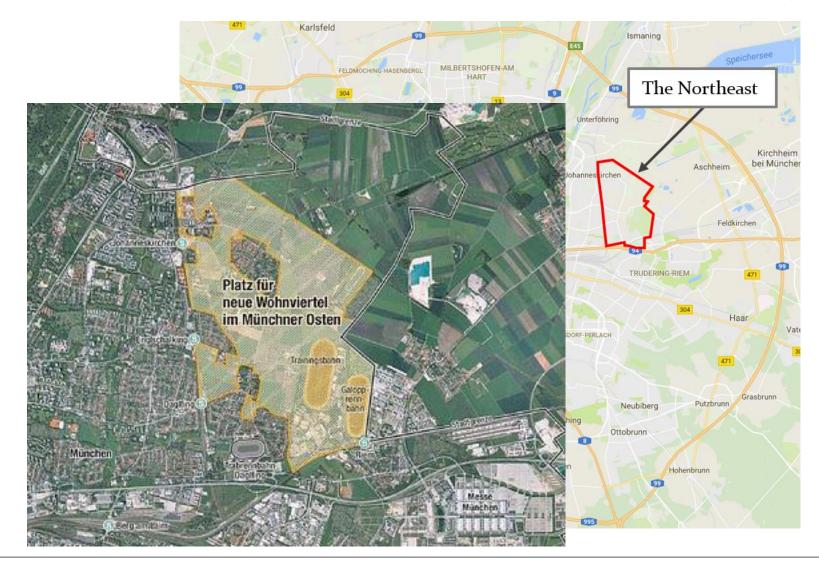
SILO/MATSim Integration (Professorship of Modeling Spatial Mobility, 2017)



Land Use Model SILO Synthetic Population Households, Persons, Dwellings, Jobs Demographic **Real estate** development changes - Birth - Construction Renovation Aging Demolition Marriage Death Household relocation

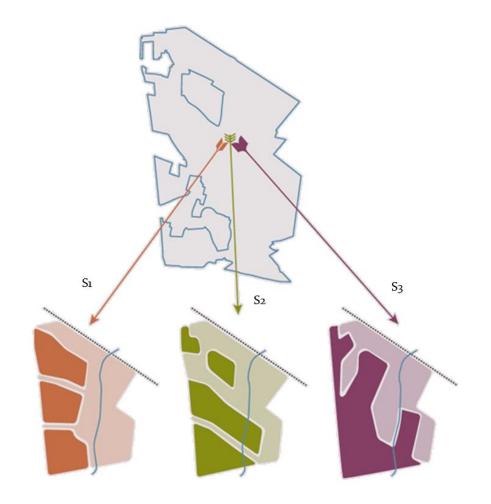
- Synthetic Population
- Each demographic change is modelled yearly
- Real estate development is modelled yearly
- Households choose to stay or move



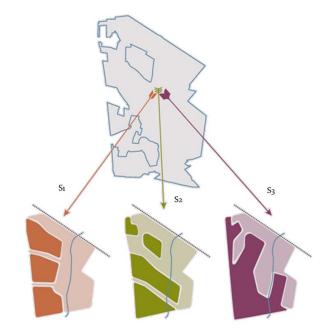


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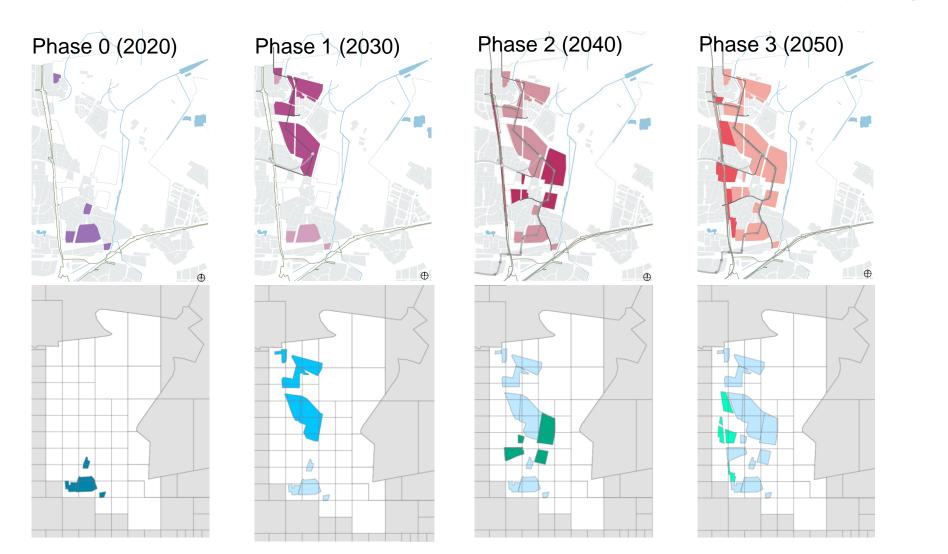




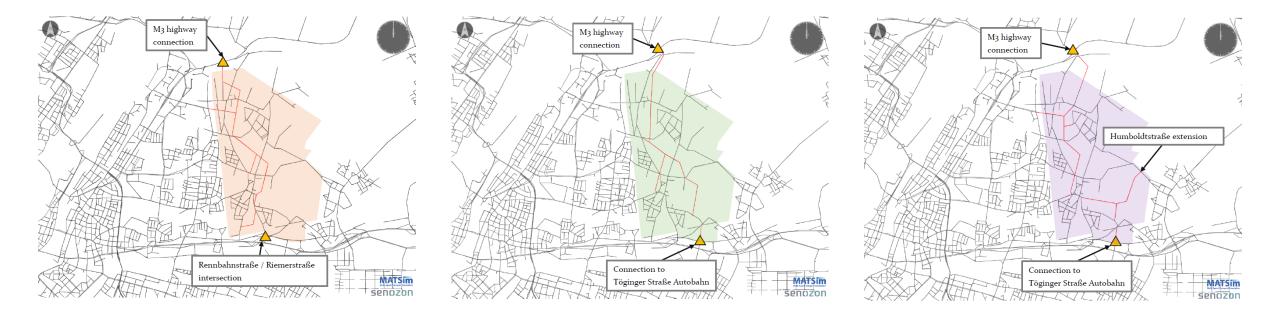


Scenario 1 29,100 people 7,900 jobs 1 new U-Bahn stop Least room for development Scenario 2 30,100 people 9,400 jobs 1 new U-Bahn stops Largest population numbers Scenario 3 29,800 people 10,500 jobs 2 new U-Bahn stops Largest employment numbers

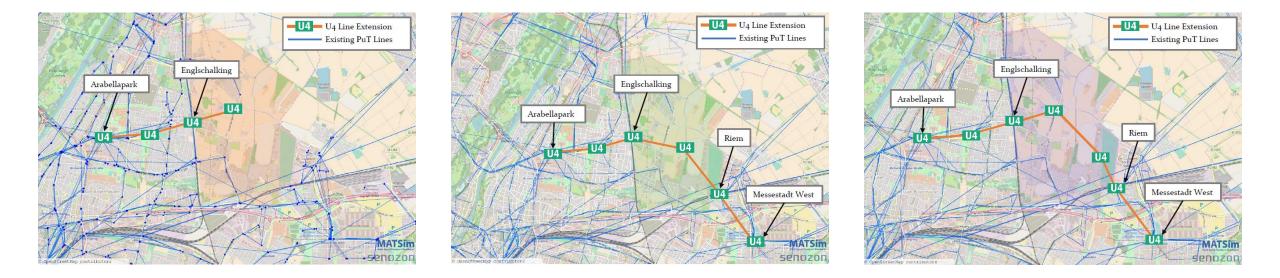




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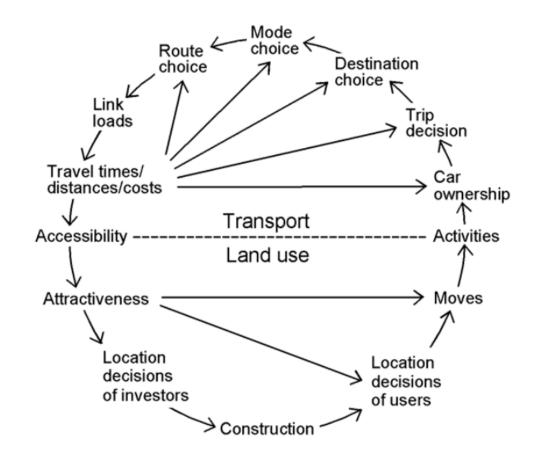


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What about Auckland? Wellington? Christchurch? Tauranga?





Thank you...

Ruby Kim

Ruby.Kim@abley.com +64 09 320 5011



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