

euMOVE

European Mobility Venture

Final Presentation



Technische Universität München



Agenda

- The Choice of the Cities
- The Team
- Introduction
- Clusters & Measures
- Conclusions
- Open Discussions

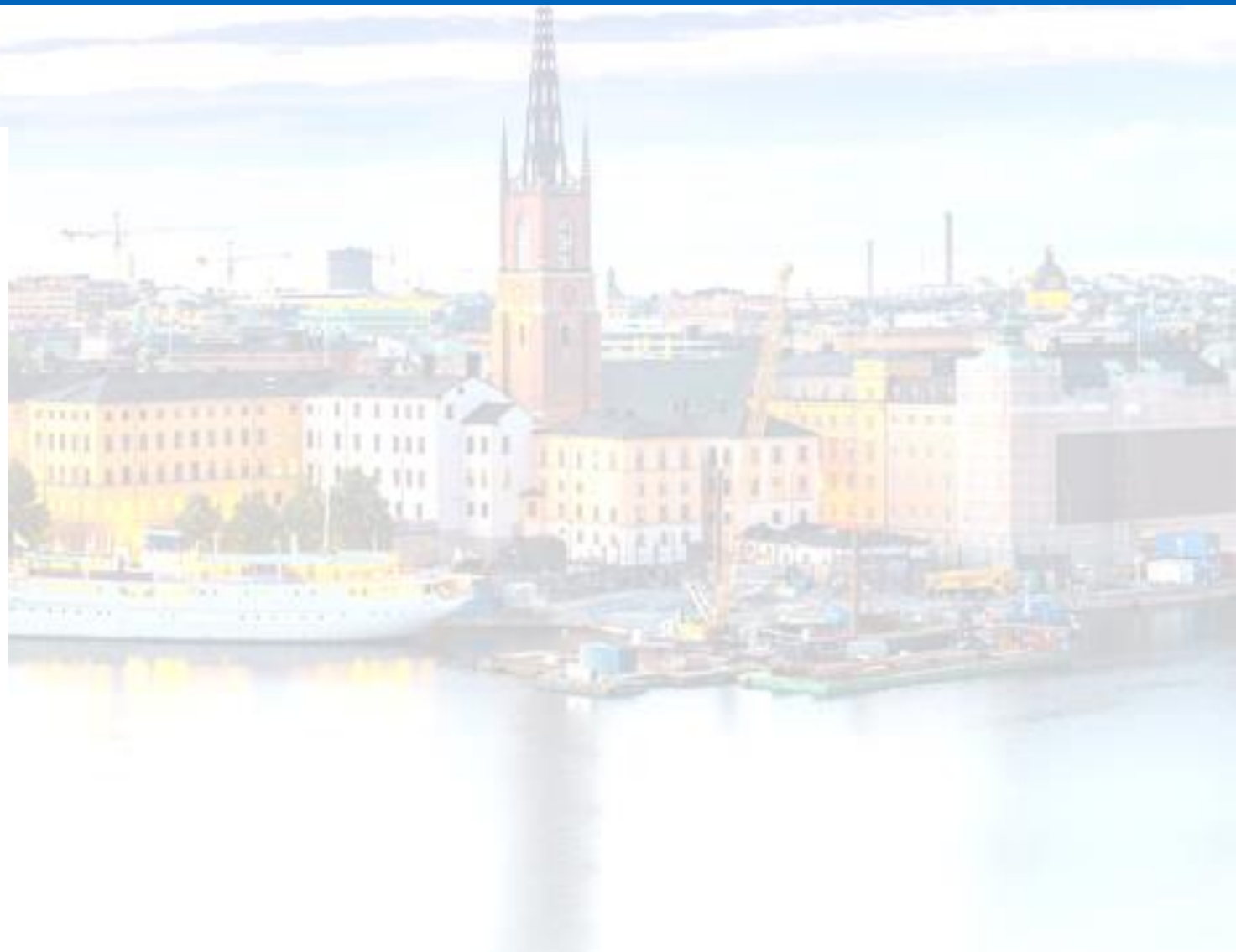


The Choice of the Cities

■ City Characteristics

■ Similar Challenges

■ Success & Innovation



Stockholm



MUC



STO



MUC



Tallinn & Helsinki



MUC



TLL



HEL



MUC



euMOVE – Final Presentation



Barcelona



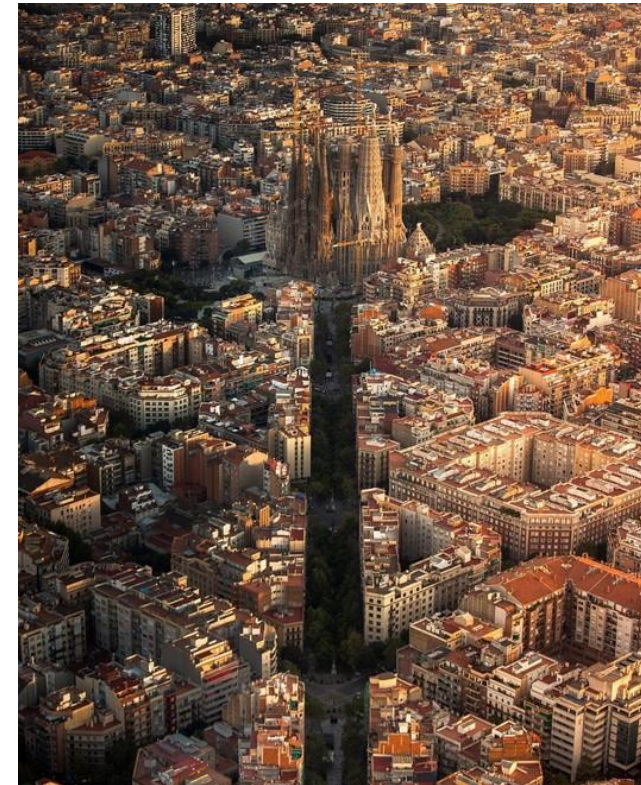
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BCN



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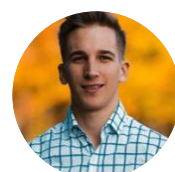


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Challenges of Munich



How to tackle them

- **Electrification and automation of traffic systems**



- **Development and integration of mobility options**



- **Redesign and network of mobility spaces**



Electrification and Automation of Traffic Systems

- Sohjoa Baltic & Fabulos (Tallinn & Helsinki)



Sohjoa Baltic & Fabulos Projects

Implementation of
Autonomous Buses in PT



Air 

Time 

Space 

Challenges

- technological readiness
- financing
- application areas
- humans and their driving behaviour
- perceived safety
- legislations
- current design of transport plans and cities

Applicability to Munich

- analyze current laws
- educate and inform citizens
- Easyride - Automated and Connected Driving in an Urban Context: pilot project in Munich

Development and Integration of Mobility Options

- UbiGO (Stockholm) & Whim (Helsinki)
- Open Data (Helsinki)

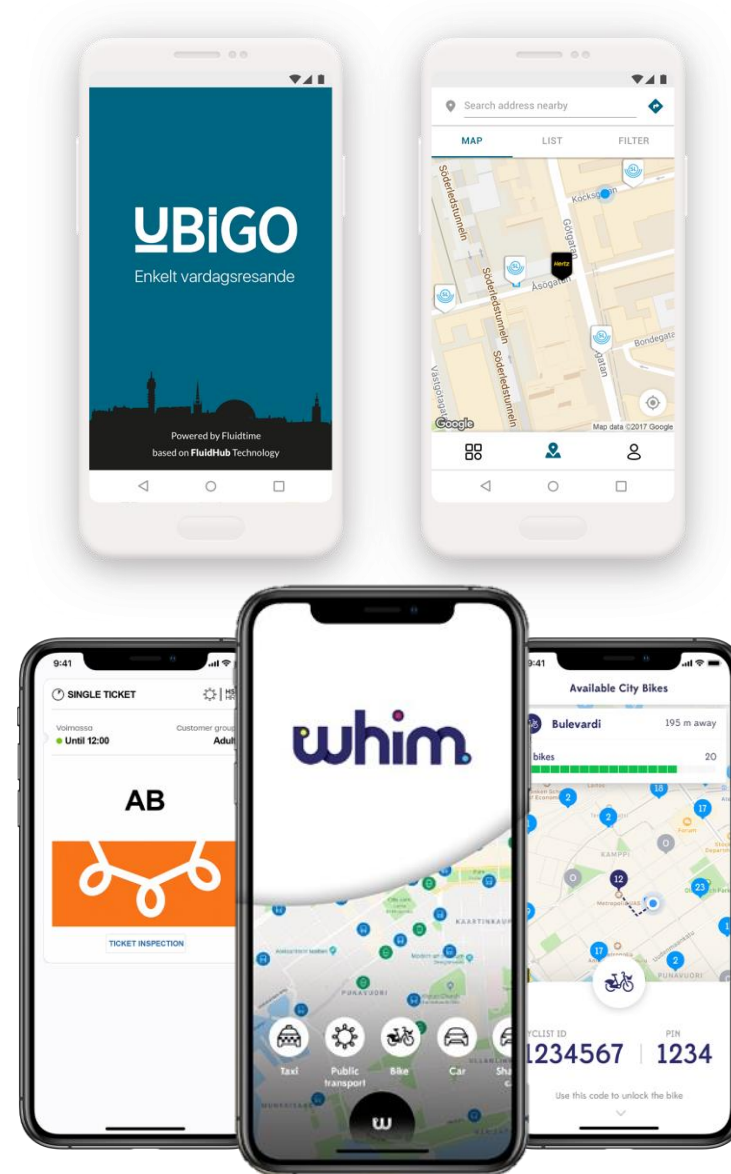


UbiGo (Stockholm) & Whim (Helsinki)

Mobility as a Service

They provide access to these modes of transport: public transport, bike sharing, car sharing, taxi, car rental and e-scooter (Whim).

The apps enable the users to plan trips by providing information on travel times, fares and departures.





Challenges

- structural model - beneficial for everyone
- willingness to share customers and data
- collaboration
- PT operators - bureaucratically complex procurement procedure
- awareness for the collective goals



Air

Time

Space



Applicability to Munich

- collaborate and make it happen
- private car ownership
- opens up a new customer group: car owners
- convenience of subscription model
- MaaS integrator: PT operator or 3rd party



Open Data

as an Enabler of Mobility
Innovation

Over 1000 data sets have been created so far:
Forum Virium (City Innovation Office) have lead
the project

Mobility service provider are obliged to open
their APIs since July 2018: A nation wide
legislation to support mobility innovation





Challenges

- quality and structure of data
- maintenance of data
- data sharing regulations: owner, access, purpose of use etc.
- the cities to support companies in using open data

Air - Time - Space indirect effects



Applicability to Munich

- innovation and new businesses
- huge public benefit
- public - private collaboration
- not personal but collective data
- necessary legislations and incentives

Redesign and Network of Mobility Spaces

- Tyck Till (Stockholm)
- Free PT (Tallinn)
- Summer Streets (Stockholm)
- Superblocks and Supporting Measures (Barcelona)

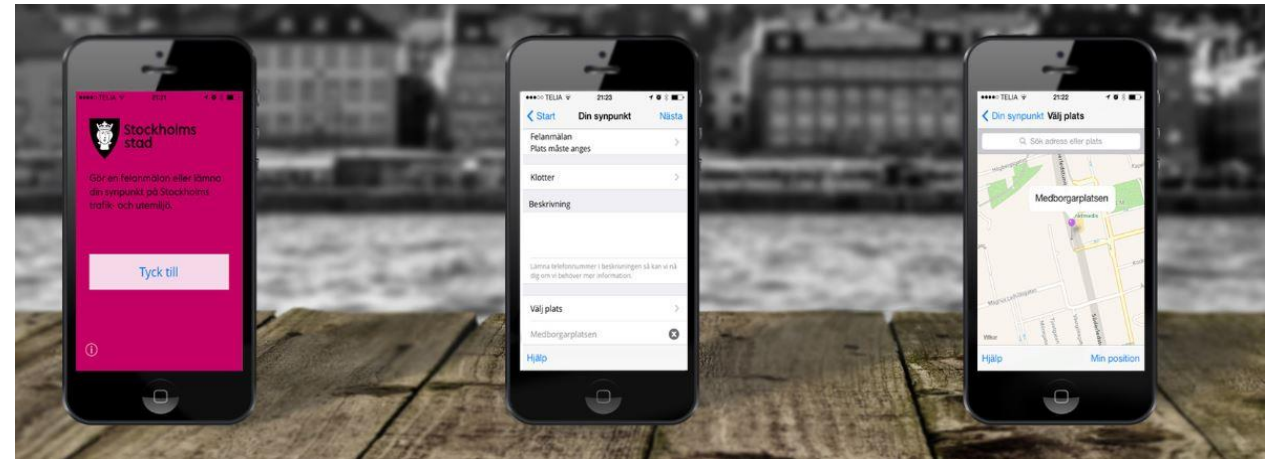


Tyck Till

Stockholm's Mobile Application & e-Service for the Citizens

Tyck Till (english: *Leave a comment*) is the dedicated mobile app and an e-service provided by the City of Stockholm to engage its citizens in the city live actively.

Specific examples of the use of the app: reporting a hole in the asphalt or bad signage.





Air

Time  

Space  

Solved Problem

- in 2016 10.000 stockholmers used the app
- keeping in touch and knowing the opinion of every citizen
- helping the municipality to know in real time what is happening on each and every street
- engaging citizens in city's life, in order to keep better care of it

Applicability to Munich

- when advertised properly and with a support team in the back, it can only be a success
- a very good way of keeping the communication between the city administration and citizens
- it engages the citizens in a modern, fun and pleasant way to participate actively in the city's live

Free Public Transport

For Tallinn residents

Tallinn was the first European capital that offered free public transport for its citizens. It happened in 2013.

Main problem solved: people who lived in Tallinn were not officially registered there.



Challenges

- not easy to assess the long term results
- social meaning and comfort of car ownership
- 12 million euros revenues from ticket sales in 2012 vs. 1000 euros per year in tax revenues from each resident



Air 

Time 

Space 

Results & Applicability to Munich

- 400,000 people registered vs. 450,000
- in 2014: the use of PT increased by 14%
- share of car usage declined only by 5%
- the long term effects should be reassessed to see if the measure is translatable to another city

Summer Streets

Temporary Pedestrian Zones

Normal streets are transformed and converted into pedestrian streets.

The implementation of the concept helped businesses in the neighbourhood area (pubs, restaurants, cafes, etc), and promoted walking and cycling.

Liveability increased.



Solved Problem

- reintroduces neighbourhoods as places to travel actively by foot, bike or scooter
- represents a powerful way of modelling a car-free future



Air 

Time 

Space 

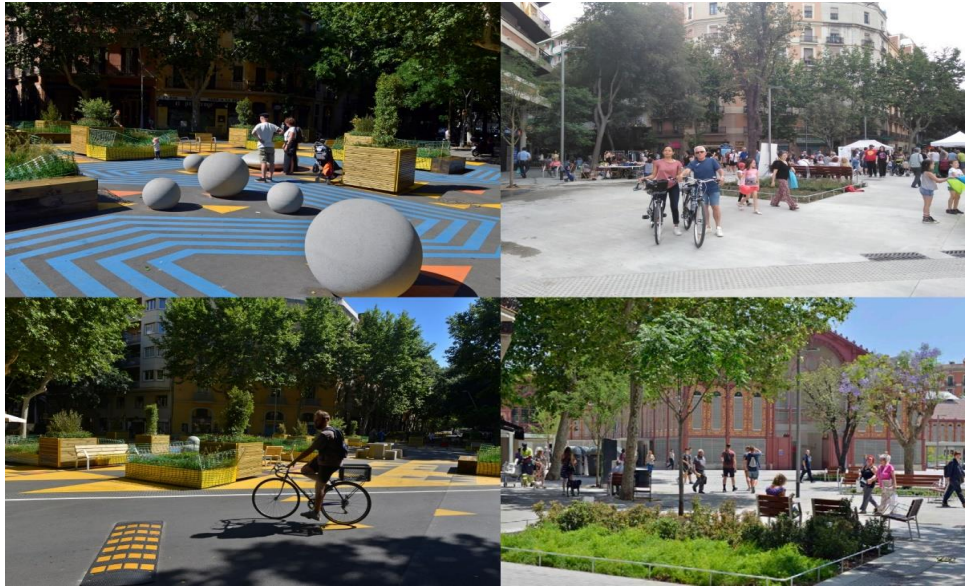
Applicability to Munich

- such an urban intervention will always attract visitors
- gives the possibility to test, evaluate and implement different solutions
- a space is created for people to raise questions and imagine what could be done with the streets if they were set up differently



Superblocks

Urban Mobility Plan



Challenges

- public acceptance and streamlining participation process
- gentrification during the transition period
- supporting public transport expansion and adaptation



Air 

Time 

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Applicability to Munich

- similar projects on a lower scale
- planned, transparent and all inclusive participatory process at all stages
- success does not depend on a quadratic structure
- higher density would be helpful



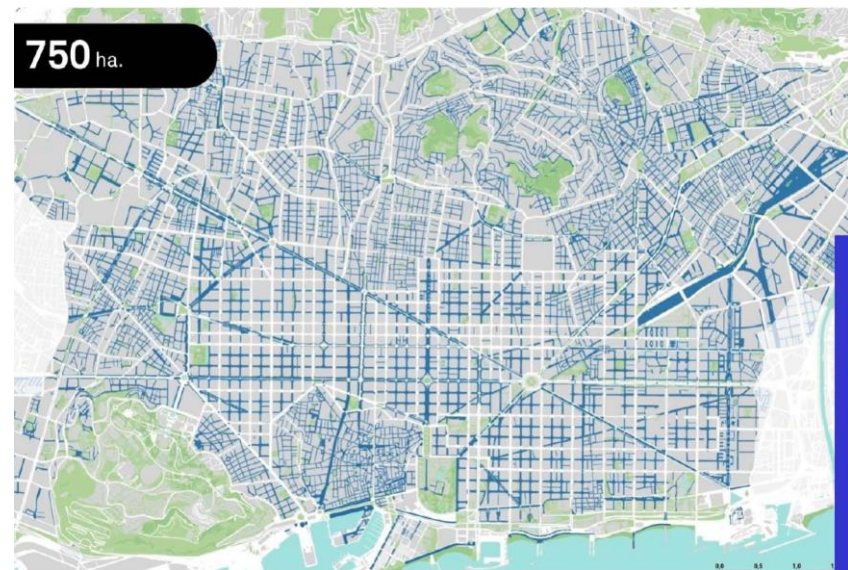
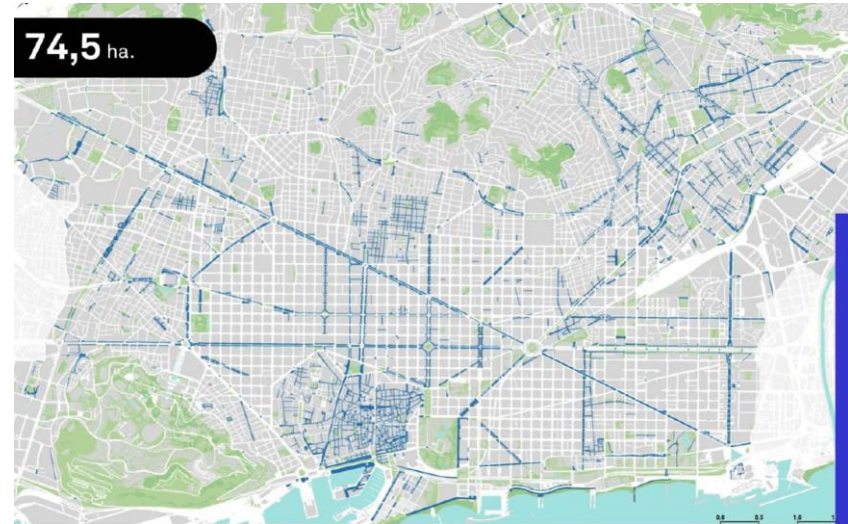
Orthogonal Bus System

Complimentary & Green PT System to Superblocks



Pacification and Increase of Pedestrian Space

Complimentary Pedestrian Safety System



Implementation

- step by step expansion
- speed bumps, radar sensors and tactical urbanism in Superblocks as infrastructure

Air 

Time 

Space 

Applicability to Munich

- supports the appeal for pedestrian friendly area in in the inner city
- infrastructure for active mobility and reshaping urban spaces.

Conclusion



Key insights from our experience

- Active mobility and aiding infrastructure is of utmost priority
- Re-imagining car free urban space with supporting public transport and shared usage
- Citizen participation, collaboration between competing stakeholders and transparent planning via open data



Open Discussion

