

euMOVE

European Mobility Venture

Virtual Information Event, February 2nd, 6-7 pm



Organized by the chairs/professorships of...

Innovation Research

TUM SOT/SOM
Prof. Sebastian Pfotenhauer



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Urban Structure and Transport Planning

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Prof. Gebhard Wulfhorst



Julia Kinigadner

Automotive Technology

Dept. of Mech. Engineering
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Urban Design

Dept. of Architecture
Prof. Benedikt Boucsein



Mareike Schmidt



Marco Kellhammer

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European Mobility Venture

Interdisciplinary student project for the research of innovative and sustainable urban mobility in Europe

Stay abroad and experience international and interdisciplinary teamwork

- > Travel to a European city to investigate local mobility concepts
- > Compare international mobility concepts with the Munich metropolitan region
- > Write a Thesis (Semester- / Bachelor's- / Master's Thesis / IDP / Study Project)

Seminar
3 ECTS



Thesis
x ECTS

Duration:
25.04.-30.09.22
→ during lecture-free period

Thesis can take place parallel to euMOVE or afterwards

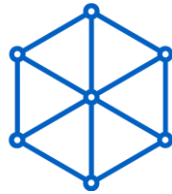
Background:
Use the seminar to do research on your thesis topic

Thesis topic: Define the topic with your supervisor

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Details



MCube

Münchner Cluster für die Zukunft
der Mobilität in Metropolregionen

- > Part of MCube research
- > Time requirements: ca. 1 day a week (excl. thesis)
- > Stay abroad: TUM covers costs for flights / train, accommodation, local transport
- > Potential partners / expert network (selection):



Landeshauptstadt
München



EUROPÄISCHE
METROPOLREGION
MÜNCHEN e.V.



DROMOS



UNTER
NEHMER
TUM

TIER

GREEN CITY

Requirements for participation

- > Open to all students focusing on or interested in mobility and transportation topics
- > Able to apply a workload within the scope of 3 ECTS approx. 1 day per week
- > Advanced semester / Thesis semester
- > (Preferably) not too many parallel course/s

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Interview process

- > Individual interviews:
 - > 30 min via Zoom
 - > Date: 01.03.2022
 - > Candidate selection: within one week
- > Expect questions regarding:
 - > Personal research focus/ interest (thesis)
 - > Ability to manage workload
 - > Experience in team work
 - > Soft skills

What we look for in the interviews

- > We want to get to know you and your motivation
- > Prior knowledge and fit with the project
- > Team spirit
- > Feasibility and fit with your stage in the study process

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Why should you become a part of euMOVE?

- > Networking opportunity with MCube Partners
- > Partners
- > Stay abroad
- > Get ready for a supervised study thesis
- > Practical research opportunity
- > Team work with motivated and smart peers
- > Interdisciplinary and international teams
- > Soft skill workshops
- > Certificate
- > Final event



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Timeline

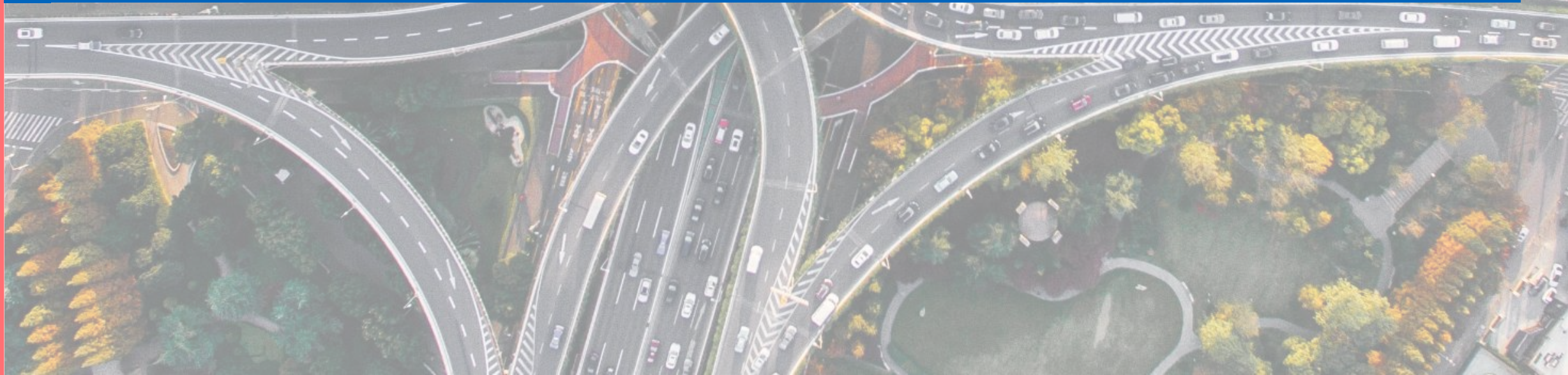
- > 25-27th April: Kick-off days
 - 1st day: Welcome & building teams
 - 2nd day: Workshops
 - 3rd day: External guest lecturers
- > Project work: preparation
- > Weekly meetings and individual mentoring
- > Meetings preferably in person
- > Approx. mid June – beginning July: Stay abroad
- > Project work: analysis and conclusions
- > Mid September: Deadline final project work
- > End of September: Final event / presentation

Timeline application process

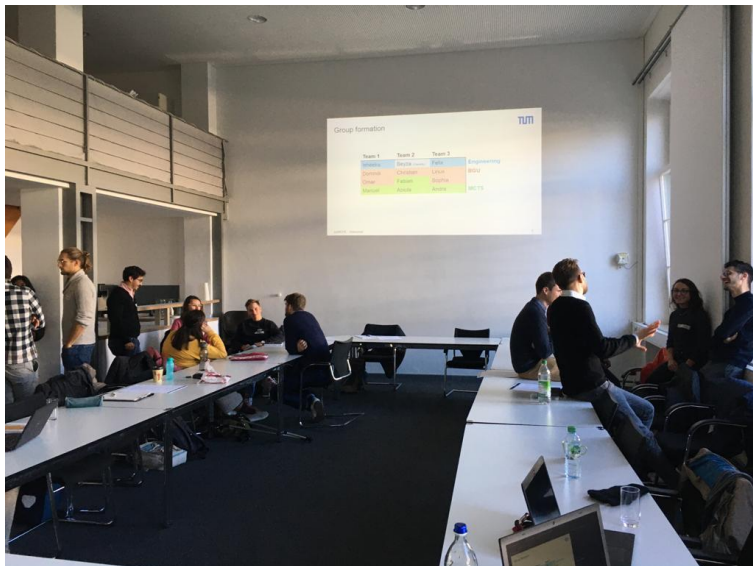
- > 15th February: Application deadline
- > 1st March: Candidate interviews
- > ~one week later: Announcement candidate selection



euMOVE 2019/20/21: Impressions

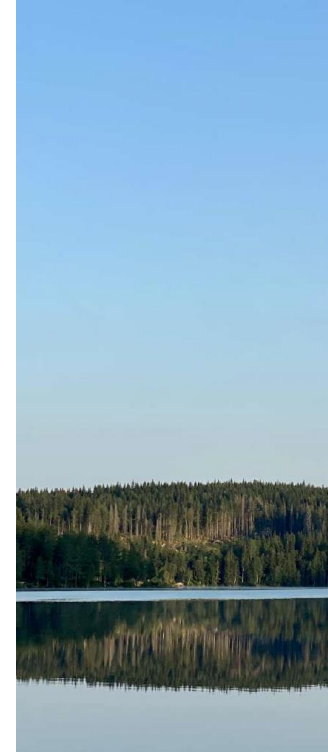
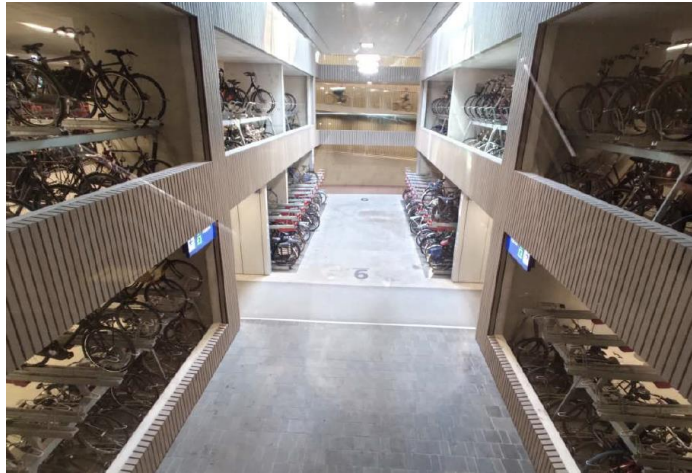


The beginning...



Kick-off (in person and virtual)
Guest lectures and partner keynotes
Workshops
Informal get togethers...

...stay abroad...



Talinn

Helsinki

Stockholm

Barcelona

Amsterdam

Malmö

Copenhagen

Oslo

Final presentation and project event at the Munich Urban Colab



EXECUTIVE SUMMARY

The report encompasses different innovations for various mobility-related fields which provide possible solutions to problems that not only challenge Munich but many other cities around the world. Important to note is that the success of every mobility project is not only based on strong innovation spirit but also on effective cooperation of all stakeholders, often with the involvement of citizens. The student teams critically analysed all projects and created a concentrate of knowledge worth sharing - so that the City of Munich can truly benefit from this report's findings.

Amsterdam adapts a cycling-friendly infrastructure, innovative traffic management, and street experiments that significantly contribute to a modal shift away from the car towards more cycling. With a large number of implemented cycling solutions and their high quality, Copenhagen is ranked as the world's most bicycle friendly city. Oslo has the highest adoption rate of electric vehicles (EVs) in the world, which helps decarbonize the transport sector, but at the same time strives to shift the modal split from private vehicles towards alternative modes like public transport, cycling and walking.

The three cities analysed are successfully achieving sustainable mobility goals and serve as an example in this field. Oslo and Amsterdam take the lead in transition to electric vehicles, while Oslo has the highest share of EVs in the world. Amsterdam boasts the highest charging station density. However, high private car use rate unites all cities which, in turn, contributes to high congestions on the roads similar to Munich.

All cities take measures to increase the attractiveness of alternative transportation modes, like active mobility and public transport. Copenhagen and Amsterdam are best-positioned in terms of active mobility, leaving Oslo and Munich behind. When considering fatal crashes involving active modes, all three cities demonstrate high road safety. Therefore, Munich can learn from best practices applied in these cities and add to its already existing measures.

In case of public transport, Amsterdam lags behind other cities, despite lower fares, while Copenhagen is in the lead with public transit affordability, annual trips per capita, and station density in the service area (Wuppertal Institute 2018). In city centers of Munich and Oslo public transportation becomes predominant, while bike use stays seasonal for both cities.

All cities presented in this report are responding in a timely manner to the challenges of high population growth, traffic congestion and CO2 emission by introducing efficient measures for reaching their sustainable urban mobility goals.

Executive Summary - 1



Munich Urban Colab



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Q&A

Ask us your questions!



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Application

- > Further information and application form:



- > Candidate interviews: March 1st 2022
- > Kickoff-Days: April 25th -27th 2022

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<https://www.linkedin.com/company/m-cube-munich-cluster-for-the-future-of-mobility-in-metropolitan-regions>

www.mcube-cluster.de

Apply
until
15.02.22

Organized by

Dept. of Science, Technology and Society, Manuel Jung

Dept. of Mechanical Engineering, Daniel Schröder

Dept. of Civil, Geo and Environmental Eng., Julia Kinigadner

Dept. of Architecture, Mareike Schmidt & Marco Kellhammer