

An aerial photograph of a complex highway interchange with multiple levels of overpasses and ramps. The roads are filled with cars, and there are green trees and a building visible in the background.

euMOVE

European Mobility

A white line-art icon of a lit lightbulb, symbolizing an idea or information.

Virtual Information Event, February 7th, 3-4 pm

Organized by the chairs/professorships of...

Innovation Research

Prof. Sebastian Pfotenhauer



Manuel Jung

Urban Structure and Transport Planning

Prof. Gebhard Wulfhorst



Julia Kinigadner

Automotive Technology

Prof. Markus Lienkamp



Nico Nachtigall

Urban Design

Prof. Benedikt Boucsein



Mareike Schmidt

euMOVE

European Mobility Venture

Join an interdisciplinary student project focusing on research of innovative and sustainable mobility in Europe

Stay abroad and experience international and interdisciplinary teamwork

- > Travel to a European metropolitan region to investigate local mobility concepts
- > Write a thesis (Semester- / Bachelor's- / Master's Thesis / IDP / Study Project)

Seminar
3 ECTS



Thesis
x ECTS

Duration:
19.04.-27.07.23

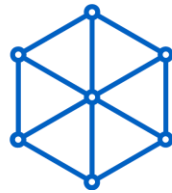
Thesis can take place parallel to euMOVE or afterwards

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

Thesis topic:
Define the topic with your supervisor

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M Cube

Münchner Cluster für die Zukunft
der Mobilität in Metropolregionen

Partners



Landeshauptstadt
München

SW/M



EUROPÄISCHE
METROPOLREGION
MÜNCHEN e.V.



DROMOS



**UNTER
NEHMER
TUM**

TIER

GREEN CITY

TUM

Requirements for participation

- > Open to all students focusing on or interested in mobility and transportation topics
- > Be ready to handle a workload of approximately 1.5 days per week
- > Advanced semester / Thesis semester
- > (Preferably) not too many parallel course/s

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Why should you become a part of euMOVE?

- > Networking opportunity with MCube partners and international experts
- > Stay abroad
- > Prepare your thesis
- > Practical research opportunity
- > Work together with motivated and smart peers
- > Be part of an interdisciplinary and international team
- > Become an expert in science communication
- > Receive a certificate
- > Present your results during a final event



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Timeline

- > Beginning of March: Admission and handout of first task (abstract for thesis)
- > 19th April: Kick-off day: Welcome, presentation of abstracts & building teams
- > Project work: preparation of stay abroad, position paper on meta-topics and report on metropolitan areas
- > Bi-weekly meetings on Wednesday mornings 9:45-11:15 (in person)
- > End of May- beginning of June: Stay abroad
- > 24th July: Submission of papers and reports
- > End of July: Public final event

Timeline application process

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

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Topics

- > Your potential master thesis
- > Group work 1 (Mobility Discourses):
 - > Crises and resiliency strategies of metropolitan areas
 - > (Post-)Growth Society in the context of mobility
 - > “mobility transition” discourse in different contexts
- > Group work 2 (Practice Topics):
 - > Experimentation (Urban Living Labs)
 - > Shared mobility
 - > Mobility pricing

Expected outputs:

- > Individual work: abstract for thesis
- > Group work 1: Write a position paper on one of three different meta topics around transformation of urban transport
- > Group work 2: Practical reports on mobility strategies and technical solutions for 4 metropolitan regions
- > Science communication : Transfer key findings of papers and reports to easily digestible content for social media (video, graphics)
- > Presentation and discussion during public event in cooperation with MCube

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Workload

- > Single work: Prepare an abstract for your thesis
- > Group work 1: Write a position paper on one of three different meta topics around transformation of urban transport
- > Group work 2: Write a practical report on mobility strategies and technical solutions in your metropolitan region

Expected additional outputs:

- > Science communication : Transfer key findings of papers and reports to easily digestible content for social media (video, graphics ...)
- > Presentation and discussion during public event in the cooperation with MCube

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Interview process

- > Application deadline: 15.02.2023
- > Individual interviews:
 - > 12 min via Zoom
 - > Date: 01.03.2023
 - > Candidate selection: within one week

What we look for in the interviews

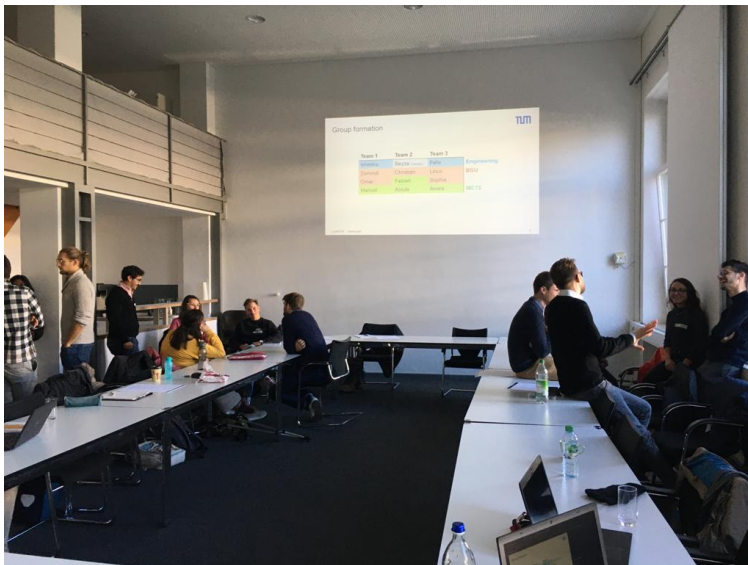
- > We want to get to know you and your motivation
- > Prior knowledge and fit with the project
- > Team spirit
- > Feasibility and fit with your stage in the study process

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euMOVE 2019/20/21/22: Impressions

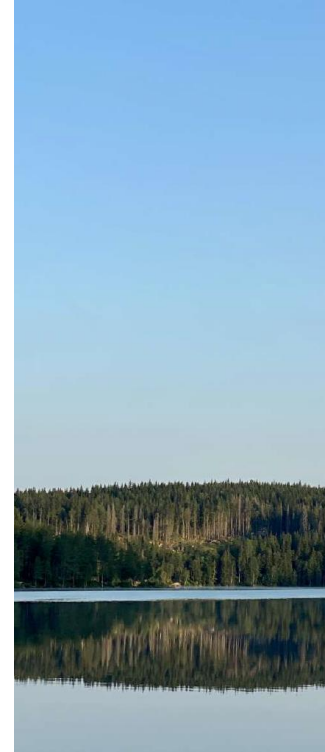
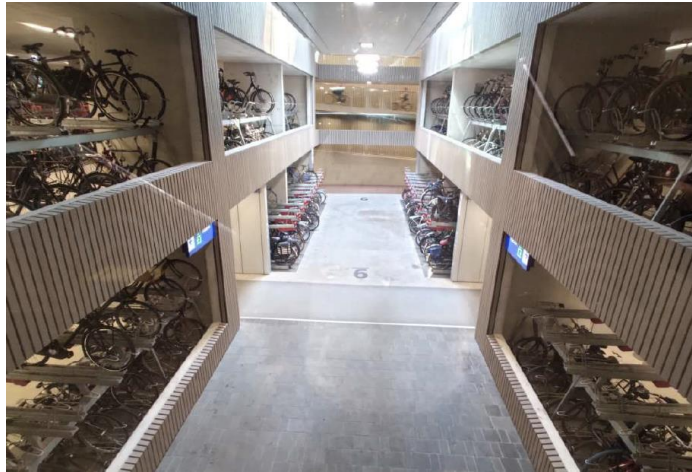


The beginning...



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
- Milano
- Bruxelles
- Lisbon
- Paris

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 analyzed 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 contributes 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 analyzed 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 its 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 total 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 (Wagapital 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!

