

euMOVE

European Mobility
Venture



Organized by

Innovation Research

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euMOVE

European Mobility Venture

- Interdisciplinary, international study project
- Innovative and sustainable mobility

→ Stay abroad in European region

→ Develop a mobility solution

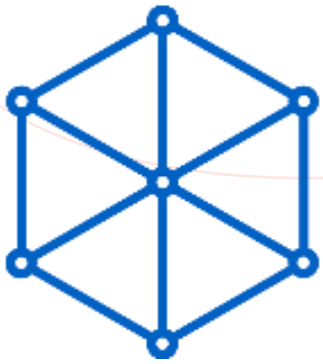
→ Present your concept



Seminar (April – July)
3 ECTS

Design Process

Opportunity Master's Thesis



M Cube

Münchner Cluster für die Zukunft der Mobilität in Metropolregionen

miteinander - möglich - machen

14 Projects - 50 Partners - 50 Mio EUR

WISSENSCHAFT

Hochschule Augsburg
University of Applied Sciences

KATHOLISCHE UNIVERSITÄT
EICHSTÄTT-INGOLSTADT

TUM als koordinierende Institution:
Führende europ. Universität im Bereich Mobilitätsinnovation
>35 ProfessorInnen aus 8 Fakultäten forschen zu Mobilität

INDUSTRIE

GESELLSCHAFT



Ziel: München zur europäischen Vorreiterin und Referenzregion für nachhaltige und transformative Mobilitätsinnovationen zu etablieren

- Prof. Markus Lienkamp
 Professor für Fahrzeugtechnik
- Prof. Sebastian Pfotenhauer
 Professor für Innovationsforschung
- Prof. Gebhard Wulffhorst
 Professor für Siedlungsstruktur und Verkehrsplanung
- Oliver May-Beckmann
 Geschäftsführer
- Svenja Harter
 Projektmanagement



MCube
Munich Cluster for the Future of
Mobility in Metropolitan Regions



**Wir machen München und die Region zur
Vorreiterin für nachhaltige und
transformative Mobilitätsinnovationen.**



14 Projekte Viele Reallabore

Field of integration: Governance, Living Labs, Responsibility



ReMGo

Responsible Mobility Governance & Innovation.

Field of integration: Data and Models



DatSim

Data hub and simulation model.

Integration field: Evaluation and System Design



SUE

Providing decision support for the system design and integration of new mobility offers for traffic between the city and surrounding areas.

Innovation projects

Field of innovation: Electrify and Automate Transportation Systems



Wies'n Shuttle

Autonomous driving in complex situations.



Testkreuzung

Test intersection for Urban Automated Driving.



ComfficientShare

Comfortable and efficient electric vehicle and charge point sharing for residential districts.



InterLog

Integrated logistics concepts for sustainable and flexible urban logistics networks.



Field of innovation: Develop and Integrate Mobility Options



TrEx

Transformative Mobility Experiments

[read more](#)
(~1 min)



STEAM

Holistic and user-centered concepts for the use of vehicles for the transport of people and goods.



SASIM

Smart Advisor for Sustainable Integrated Mobility - A full cost perspective on urban traffic (SASIM)



Field of innovation: Connect Locations and Design Mobility Spaces



AQT

Car-reduced quarters for a more livable city.



MGeM

Mobility justice in metropolitan regions (MGeM)



BeneVit

Innovative assessment methods for sustainable transportation investments.



COLTOC

Collaborative traffic optimization and control.



Why euMOVE?

- Networking opportunity with MCube partners and international experts
- Experience a guided design process and develop a mobility solution
- Stay abroad
- Practical research opportunity
- Work together with an interdisciplinary and international team
- Present your concept or prototype
- Receive a certificate
- Preparation and inspiration for your thesis



Timeline

- Week 11: Feedback to the applicants
- 17.04.2024: Kickoff Day from 1pm incl. evening event
- Project meetings on Wednesday afternoon (24.04. and 08.05.)
- June 2024: Excursion (9 - 14 days)
- Project meetings on Wednesday afternoon (12.06. and 03.07.)
- tbd: Final event in cooperation with MCube



28.02.2024:

Application deadline

06.03.2024:

Application Interviews



Topics of euMOVE 2024

- Commuting from suburban areas
- Cycling in the city
- Distribution of public space



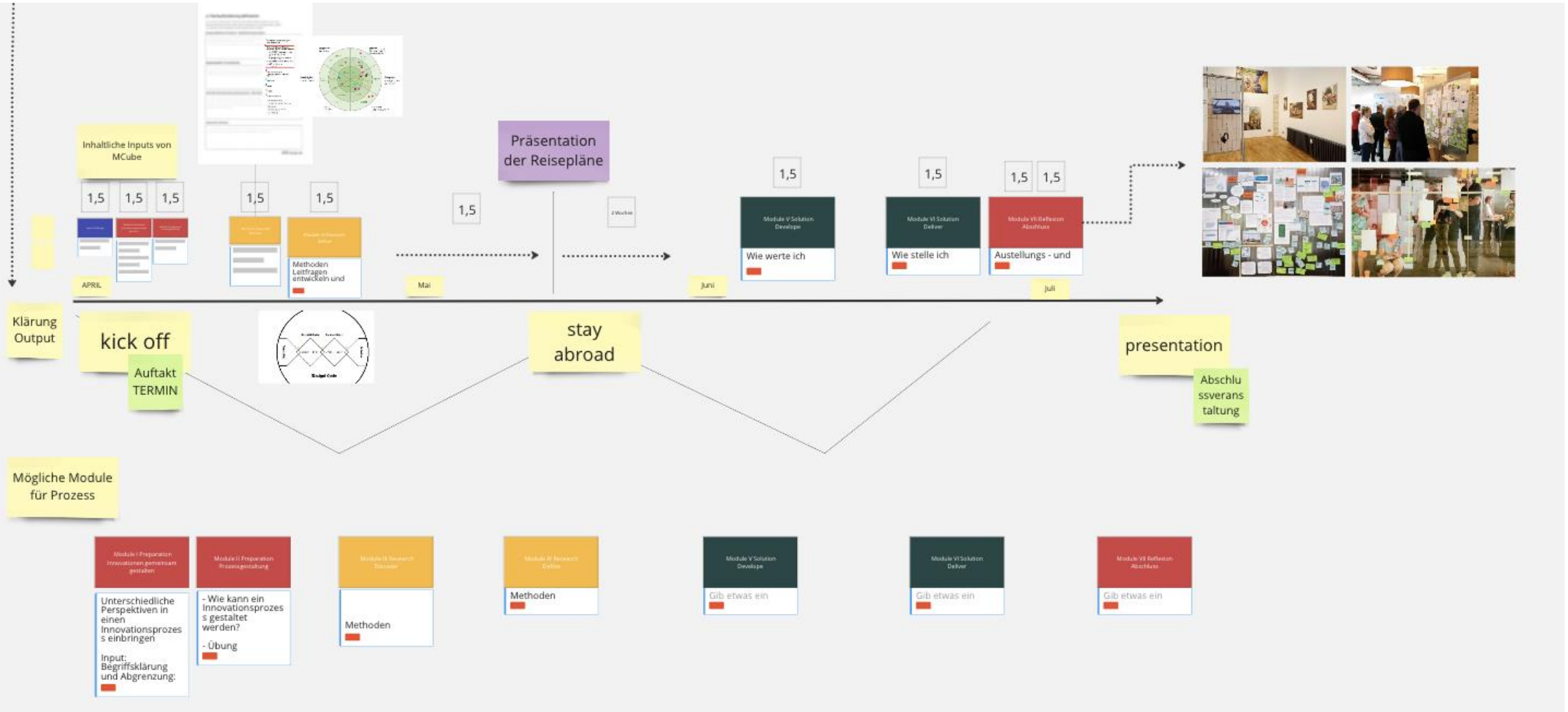
Workload

- Social Design Process and development of a concept or prototype
- Organization of stay abroad
- Preparation of the final event
- (Preparing Master's Thesis)



2-3 days per week!

Social Design Process



Impressions



MCube
Munich Cluster for the Future of
Mobility in Metropolitan Regions



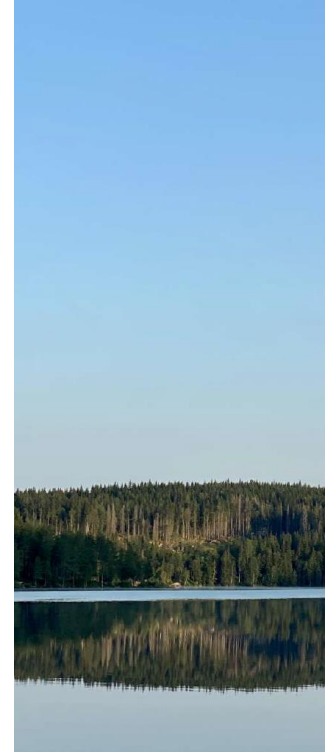
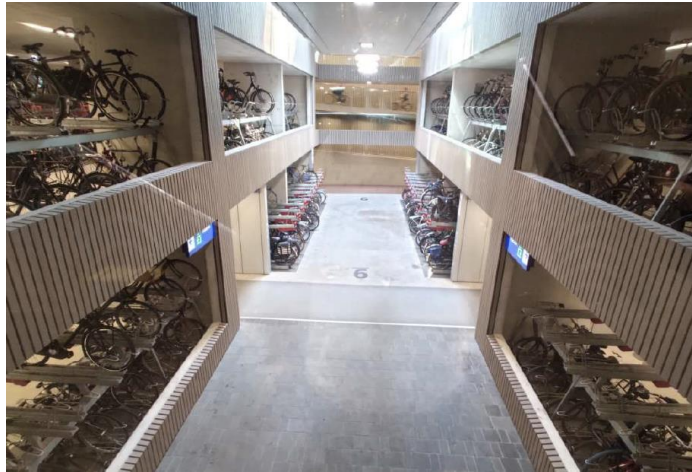
The beginning...



Kick-off (in person)
Partner keynotes
Workshops
Informal get togethers...



...stay abroad...



Talinn
Helsinki
Stockholm
Barcelona
Amsterdam
Malmö
Copenhagen
Oslo
Milano
Bruxelles
Lisbon
Paris
Prague
Lyon
Budapest

Final presentation and project events



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 2020). 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



Application

- CV
- current examination report
- Letter of motivation (max. 1 page)

Your Questions



Send until 28.02.2024 to:
eumove.ftm@ed.tum.de

Mark in your calendar:
06.03. for interviews

