

mobilität · TUM 2024

THE FUTURE OF MOBILITY AND URBAN SPACE

13th International Scientific Conference on Mobility

▪ CONFERENCE GUIDELINE ▪

April 10-12
Munich, Germany

Design Offices München ATLAS
Rosenheimer Str. 143C, 81671 München

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■ PRESENTATIONS & WORKSHOPS ■

■ Oral presentations

Each session will have 90 minutes, with participants having a 20-minute slot, each comprising a 15-minute presentation followed by a 5-minute Q&A.

Each participant is responsible for preparing their presentation; no template is provided.

☆ Please upload your presentation under the corresponding folder in the following link: [mobil.TUM 2024 Presentations here](#)

■ Poster instructions

We aim to facilitate a 3-minute pitching session. Each participant is required to prepare three slides for their 3-minute presentation. The slides should focus on images (as little text as possible). Additionally, please bring a printed poster (A1 format) to further the discussion.

☆ Please use the following template by accessing through the following link: [poster template here](#)

☆ Please upload your poster slides under the corresponding folder in the following link: [mobil.TUM 2024 Presentations here](#)

■ Workshops registration

The last day of the conference will be dedicated to workshop sessions and excursions. We have organised four different thematic workshops, two in parallel per session and two outdoor activities.

To participate in any workshop and excursion, we need your registration. Information regarding each workshop and excursion is detailed at the end of this document.

☆ Please follow the next steps to register:

1. Log in to your conference account (credentials used to register) on the registration page: [mobil.TUM 2024 Workshops registration here.](#)
2. Click on the button “Book other offers”.
3. Select the workshop and excursion you would like to participate. It is possible to pick just one workshop and one excursion per parallel session.

*If you do not have a conference account, please use the same link above, click on the button “Register as attendee”, complete the information and book the workshops and excursions.

■ Book of abstracts



■ Online program



■ VENUES ■

■ *Wednesday 10th and Thursday 11th*

Design Offices München ATLAS

Rosenheimer Str. 143C, 81671

[Google Maps link](#)

How to get there?

Sbahn (trains) lines: S1-S2-S3-S4-S6-S7-S8

Ubahn (metro): U5

Bus: line 100

Walking: 10 minutes from Ostbahnhof Station (Munich East)

■ *Friday 12th*

Technical University of Munich - Main Campus

Arcisstraße 21, 80333

[Google Maps link](#)

How to get there?

Tram: 27 - 28

Ubahn (metro): U2

Bus: lines 58 - 100

Walking: 15 minutes from Hauptbahnhof (central station)

☆ **Parallel Workshops 1 & 3**

Room 1713, 1.OG

Building 0507 Bestelmeyer North

[TUM roomfinder link](#)

☆ **Parallel Workshops 2 & 4**

Vorhoelzer Forum - Room 5166, 5.OG

Building 0501 Institutsbau

[TUM roomfinder link](#)

■ CONFERENCE DINNER ■

■ *Thursday 11th at 19:00*

Löwenbräukeller

Stiglmaierplatz, Nymphenburger Str. 2, 80335

[Google Maps link](#)

How to get there?

Ubahn (metro): U1, U7

Tram: 20 - 21

Walking: 13 minutes from Hauptbahnhof (main train station)

Note: Dinner will be provided exclusively to participants who have chosen the dinner option during registration.

■ OUR KEYNOTE SPEAKERS ■



Karen Lucas

Topic at mobil.TUM 2024:

Why social inclusion matters in transport planning now and in the future

Karen Lucas is a Professor of Human Geography and Director of Research in the Department of Geography within the School of Environment, Education and Development (SEED) at the University of Manchester. She is deputy director of the Manchester Urban Institute and leads its Transport and Mobilities research group. She has 25+ years' experience of delivering social research into practice in transport, employing a variety of mixed methods approaches to issues of mobility, accessibility and social justice.



Karst Geurs

Topic at mobil.TUM 2024:

Mobility Hubs: a game changer for sustainable and inclusive mobility?

Karst Geurs is Full Professor of Transport Planning at the Department of Civil Engineering and Management, Faculty of Engineering Technology, University of Twente, the Netherlands. His research focuses on accessibility analysis and modeling, linkages between land-use, transport and technologies, travel behavior research, transport policy evaluation and sustainable transport.



Cecília Silva

Topic at mobil.TUM 2024:

Going Nowhere Fast: Undermining proximity with speed

Cecília Silva is an Associate Professor with Habilitation at the Faculty of Engineering, University of Porto (FEUP), and senior researcher at CITTA - the Research Centre for Territory, Transports and Environment - where she coordinates the transversal thematic area on Accessibility and Mobilities. She is specialized in Urban Planning and Mobility Management, with a core focus on crafting sustainable, liveable cities that provide citizens with enriching experiences. Her main research focus is on accessibility planning and integrated land use and transport policies for human-scale cities, developed in close collaboration with local authorities.



Catherine Gall

Topic at mobil.TUM 2024:

The power of urban proximities

Catherine Gall is a creative design thinker with a background in Business Management from the Strasbourg School of Business and has over 25 years of experience in strategy and innovation in the corporate interior industry. She has led workplace transformation projects globally and co-authored the "Culture Code" research, exploring cultural influences on the design of working and learning environments in 11 countries. Since March 2020, she has been the Executive Director of the Sorbonne Research Lab called Chaire ETI (Entrepreneurship Territory Innovation), created by Professors Carlos Moreno, Didier Chabaud and Florent Pratlong challenging conventional city planning models with the renowned research called "the 15-minute City / 30 mn territory Model".

PROGRAM OVERVIEW

- mobil.TUM topics sessions
- NECTAR sessions
- MCube sessions

| Time | Wednesday, April 10 Design Offices ATLAS | | | Thursday, April 11 Design Offices ATLAS | | | Friday, April 12 TUM Main Campus | |
|-------|---|---|---|--|---|---|---|--|
| 08:00 | Check-in 08:00 - 08:30 | | | | | | | |
| 08:15 | Venue Reception | | | | | | | |
| 08:30 | Welcoming Words 08:30 - 09:00 | | | | | | | |
| 08:45 | Room "Münchner Kindl" | | | | | | | |
| 09:00 | Karst Geurs Keynote Mobility Hubs: a game changer for sustainable and inclusive mobility? 09:00 - 09:30 Room "Münchner Kindl" | | | Karen Lucas Keynote Why social inclusion matters in transport planning now and in the future 09:00 - 09:30 Room "Münchner Kindl" | | | Welcome at TUM 09:00 - 09:30 Vorhoelzer Forum Room 5166 | |
| 09:15 | | | | | | | | |
| 09:30 | Parallel Session A1 15mC challenges NECTAR session 09:30 - 11:00 Room "Münchner Kindl" | Parallel Session A2 Mobility hubs 09:30 - 11:00 Room "Brezn" | Parallel Session A3 Public participation 09:30 - 11:00 Room "Lederhosen" | Parallel Session E1 15mC and walking NECTAR session 09:30 - 11:00 Room "Münchner Kindl" | Parallel Session E2 Public participation and governance 09:30 - 11:00 Room "Brezn" | Parallel Session E3 Appraisal and evaluation MCube session 09:30 - 11:00 Room "Lederhosen" | Parallel Workshop 1 Agenda for change: Driving transport policy towards justice 09:30 - 11:00 Vorhoelzer Forum Room 5166 | Parallel Workshop 2 New highway traffic analysis methods for the highway capacity manual 09:30 - 11:00 Room 1713 |
| 09:45 | | | | | | | | |
| 10:00 | | | | | | | | |
| 10:15 | | | | | | | | |
| 10:30 | | | | | | | | |
| 10:45 | | | | | | | | |
| 11:00 | Coffee Break | | | Coffee Break | | | Coffee Break | |
| 11:15 | Parallel Session B1 Planning for justice 11:15 - 12:45 Room "Münchner Kindl" | Parallel Session B2 15mC and logistics NECTAR session 11:15 - 12:45 Room "Brezn" | Parallel Session B3 Planning the cycling city 11:15 - 12:45 Room "Lederhosen" | Parallel Session F1 Parking and traffic control 11:15 - 12:45 Room "Münchner Kindl" | Parallel Session F2 Cycling network 11:15 - 12:45 Room "Brezn" | Parallel Session F3 Travel behaviour 11:15 - 12:45 Room "Lederhosen" | Parallel Workshop 3 15mC - What is next? 11:15 - 12:45 Vorhoelzer Forum Room 5166 | Parallel Workshop 4 Planning the active city 11:15 - 12:45 Room 1713 |
| 11:30 | | | | | | | | |
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| 12:00 | | | | | | | | |
| 12:15 | | | | | | | | |
| 12:30 | | | | | | | | |
| 12:45 | Lunch Break 12:45 - 13:45 | | | Lunch Break 12:45 - 13:45 | | | | |
| 13:00 | | | | | | | | |
| 13:15 | | | | | | | | |
| 13:30 | | | | | | | | |
| 13:45 | Parallel Session C1 Environmental justice 13:45 - 15:15 Room "Münchner Kindl" | Parallel Session C2 Playing with data 13:45 - 15:15 Room "Brezn" | Parallel Session C3 Emerging services 13:45 - 15:15 Room "Lederhosen" | Parallel Session G1 Reducing car usage 13:45 - 15:15 Room "Münchner Kindl" | Parallel Session G2 Governance for sustainable mobility MCube session 13:45 - 15:15 Room "Brezn" | Parallel Session G3 The inclusive 15mC NECTAR session 13:45 - 15:15 Room "Lederhosen" | Optional excursions Walking City Center Tour Marienplatz - Fish Fountain | Optional excursions Biking Tour |
| 14:00 | | | | | | | | |
| 14:15 | | | | | | | | |
| 14:30 | | | | | | | | |
| 14:45 | | | | | | | | |
| 15:00 | | | | | | | | |
| 15:15 | Cecilia Silva Keynote Going Nowhere Fast: Undermining proximity with speed 15:15 - 15:45 Room "Münchner Kindl" | | | Catherine Gall Keynote The power of urban proximities 15:15 - 15:45 Room "Münchner Kindl" | | | | |
| 15:30 | | | | | | | | |
| 15:45 | Coffee Break | | | Coffee Break | | | | |
| 16:00 | Poster Session I 16:00 - 16:30 Presentations: Room "Münchner Kindl" Poster hanging: Room "Dirndl" | | | Poster Session II 16:00 - 16:30 Presentations: Room "Münchner Kindl" Poster hanging: Room "Dirndl" | | | | |
| 16:15 | | | | | | | | |
| 16:30 | Parallel Session D1 Understanding the disadvantaged social groups 16:30 - 18:00 Room "Münchner Kindl" | Parallel Session D2 Multimodal transportation 16:30 - 18:00 Room "Brezn" | Parallel Session D3 Public transport 16:30 - 18:00 Room "Lederhosen" | Closing Ceremony: Benjamin Büttner 16:30 - 17:30 Room "Münchner Kindl" | | | | |
| 16:45 | | | | | | | | |
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| 18:30 | | | | | | | | |
| 18:45 | | | | | | | | |
| 19:00 | | | | DINNER AT LÖWENBRÄUKELLER | | | | |

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■ DETAILED PROGRAM ■

WEDNESDAY 08:00 - 08:30
April 10 Check-in

08:30 - 09:00

Welcoming Words

 Room “Münchner Kindl”

Benjamin Büttner - Deputy Head of Chair of Urban Structure and Transport Planning

Jeanne Rubner - Technical University of Munich Vice President and MCube

Judith O’Meara - EIT Urban Mobility Director Innovation Hub Central

09:00 - 09:30

Karst Geurs Keynote

Mobility hubs: a game changer for sustainable and inclusive mobility?

 Room “Münchner Kindl”

09:30 - 11:00


Parallel Session A1: 15mC challenges (NECTAR Session)

 Room “Münchner Kindl”

Chair: Catherine Gall

- 1 10 facts of the 15mC
Presenter: Benjamin Büttner - Technical University of Munich
- 2 The potential and challenges of digital twins for 15-minute cities
Presenter: Lucas Van der Meer - University of Salzburg
- 3 Dealing with the “15-min City concept in the Lyon metropolitan area: accessibility challenges for sustainable mobility and inclusiveness
Presenter: Nicolas Ovtracht - LAET CNRS University of Lyon
- 4 Dissecting opposition to the 15-Minute City in the post-COVID era
Presenter: Oriol Marquet - Universitat Autònoma de Barcelona

Parallel Session A2: Mobility hubs

 Room “Brezn”

Chair: Karst Geurs

- 1 Unlocking the potential of crowd-sourced data for smart mobility hubs
Presenter: Christoph Kirchberger - Technical University of Vienna
- 2 Experimental and participatory governance of mobility hubs in urban sustainable transitions
Presenter: Julia Hansel - University of Münster
- 3 Mobility hubs and Transit-Oriented Development (TOD) - The urban morphology, public transport and shared mobilities
Presenter: Todor Stojanovski - KTH Royal Institute of Technology
- 4 Barriers and preferences to mobility hubs: An analysis of users and non-users
Presenter: Oliver Roider - University of Natural Resources and Life Sciences BOKU

Parallel Session A3: Public participation

 Room “Lederhosen”


Chair: Imre Keserü

- 1 To approve or not to approve - The role of polarization in street experiments
Presenter: Mareike Schmidt - Technical University of Munich

- 2 The voice of the city: Analysing user-generated content to inform active mobility policy making using natural language models
Presenter: Charlotte van Vessem - Vrije Universiteit Brussel
- 3 Mobile apps for tourists - Insignificant fad or effective tool to shape the destination and mode choice decisions?
Presenter: Sebastian Vicoli - Universität of Innsbruck
- 4 How can municipalities contribute to the promotion of urban consolidation centres?
Presenter: Maria Savall-Mañó

11:00 - 11:15

Coffee Break

 Room “Boazn”

11:15 - 12:45


Parallel Session B1: Planning for justice

 Room “Münchner Kindl”

Chair: David Duran-Rodas

- 1 Vulnerability to fuel price increases: Socio-spatial patterns in Germany
Presenter: Giulio Mattioli - TU Dortmund University
- 2 Creating safe spaces for a just mobility transition: The case of cycling
Presenters: Henrike Rau & Monika Popp - Ludwig-Maximilians Universität
- 3 The interplay between travel behavior and public participation in sustainable urban mobility
Presenter: Roxani Gkavra - University of Natural Resources and Life Sciences BOKU
- 4 Multi-Stakeholder analysis of mobility justice perspectives
Presenter: David Duran-Rodas - Technical University of Munich


Parallel Session B2: 15mC and logistics (NECTAR Session)

 Room “Brezn”

Chair: Benjamin Büttner

- 1 Insights for enhancing urban freight accessibility
Presenter: Julia Amaral - University of Antwerp
- 2 Environmental benefits of logistics facilities in the 15-Minute City - A trade-off analysis of transportation and real estate impacts
Presenter: Claire Schelfhout - Vrije Universiteit Brussel
- 3 The driving factors of consumers’ shopping channel choices in the omnichannel shopping context
Presenter: Yubing Lei - University of Antwerp
- 4 Experiential learning in urban mobility: Logic, impact and applications
Presenter: Els Beukers & Job Oberman - Windesheim

Parallel Session B3: Planning the cycling city


 Room “Lederhosen”

Chair: George Liu

- 1 Bike-sharing stations in urban areas and proximity: a multi-criteria approach
Presenter: Rebecca Rossetti - University of Bologna
- 2 Cargo bike sharing: The potential of a new socially innovative mobility service for metropolitan regions and beyond
Presenter: Michael Bissel - Technische Universität Berlin
- 3 Pedaling progress: Insights into the acceptance and consequences of bicycle-friendly side streets
Presenter: Jana Busse - Research Lab for Urban Transport
- 4 Scale matters: Proximity and cycling share in 40 european metropolitan areas
Presenter: Beatriz Martinez Rico - Universidad Politécnica de Madrid

12:45 - 13:45

Lunch Break

 Room "Boazn"

13:45 - 15:15


Parallel Session C1: Environmental justice

 Room "Münchner Kindl"

Chair: Sebastian Rauch

- **1** Assessing sustainable mobility scenarios and their Influence on street level air pollution: A comparative analysis in Kesselsdorfer street in Dresden, Germany
Presenter: Elisa Bernal-Reino - Glasgow Caledonian University
- **2** Suburban dream vs. climate-friendly transport? Assessing the transport and environmental implications of urban sprawl development in Polish cities
Presenter: Arkadiusz Drabicki - Technical University of Munich
- **3** Access to education and clean air: Urban policies in Warsaw primary schooling
Presenter: Joanna Rachubik - University of Warsaw
- **4** Are Parents driving air pollution around schools?
Presenter: Henrik Grythe - NILU, Norway

Parallel Session C2: Playing with data

 Room "Brezn"

Chair: Yusak Susilo

- **1** Traffic light assistant app for cooperative multimodal signal control
Presenter: Kim Jannik Eggers - German Aerospace Center (DLR)
- **2** Determination of a representative travel speed for road facility performance evaluation using floating car data
Presenter: Torben Lelke - TU Braunschweig
- **3** Open data platforms for smart mobility planning: The case of Brazilian capitals
Presenter: Tatiane Borchers - Universität Duisburg-Essen
- **4** The gender data gap in mobility: A systematic guide to gender-sensitive data in mobility research
Presenter: Ines Kawgan-Kagan

Parallel Session C3: Emerging services

 Room "Lederhosen"

Chair: Els Beukers

- **1** Smart shared mobility hubs: the future of hubs for vulnerable users
Presenter: Anna Grigolon - University of Twente
- **2** What does data tell you? - insights from a carpooling dataset
Presenter: Marcel Porschen - RWTH Aachen University
- **3** Location selection for integrated mobility services: A study on mobility hub placement for UAM and surface mobility services
Presenter: Jaehyun So - Ajou University
- **4** Business model innovation in urban air mobility: An application of business model innovation to vertiports
Presenter: Vasiliki Kalliga - Bauhaus Luftfahrt E. V.

15:15 - 15:45


Cecilia Silva Keynote

Going Nowhere fast: undermining proximity with speed

 Room "Münchner Kindl"

15:45 - 16:00


Coffee Break

 Room "Boazn"

16:00 - 16:30

Poster Session 1 - Chair: Sebastian Seisenberger

 Room “Münchner Kindl”: Pitching session

 Room “Dirndl”: Poster hanging

- 1 A summer tale for the mobility transition? The German 9-euro-ticket through the lens of socio-technical experimentation
Presenter: Michael Bissel - Technische Universität Berlin
- 2 Development of an algorithm for ridesharing in an autonomous mobility-on-demand system
Presenter: Supraja Hariharan - Imperial College London
- 3 Quantifying emission and cost reduction potentials of corporate mobility as a Service
Presenter: Antonia Klopfer - RWTH Aachen University
- 4 Reconditioning Train to Subway: planning and design tools based on sustainable urban mobility in Rio de Janeiro, Brazil
Presenter: Teresa Cahú - Federal University of Rio de Janeiro
- 5 The role of perceived road and personal safety on the mode choice for school trips in Lima/ Peru
Presenter: Jessica Iris Huaylinos Cardenas - Dornier Group
- 6 Dynamic charging solutions for future mobility: A viability review
Presenter: Mohd Aiman Khan Khan - KTH Royal Institute of Technology
- 7 Navigating the road ahead: Advancing transportation infrastructure maintenance for sustainable mobility
Presenter: Henrike Rau - Ludwig-Maximilians Universität München

16:30 - 18:00


Parallel Session D1: Understanding the disadvantaged social groups

 Room “Münchner Kindl”

Chair: Karen Lucas

- 1 The influence of the built and social environment on elderly’s wellbeing in an activity-travel context
Presenter: Caroline Beckers - Ghent University
- 2 Inclusive methodologies to involve disadvantaged groups in the development of sustainable mobility solutions
Presenter: Lluís Martínez - Vrije Universiteit Brussel
- 3 How to combat mobility injustices for older people?
Presenter: Helena Gartmeier - Technical University of Munich
- 4 Transcending the duality of the “mobile” and “immobile”. Revealing human capacities for planetary wellbeing through “third cultures”
Presenter: Kim Carlotta von Schönfeld - Western Norway University of Applied Sciences

Parallel Session D2: Multimodal transportation


 Room “Brezn”

Chair: Ines Kawgan-Kagan

- 1 Understanding multimodal mobility strategies of micromobility users in urban environments: Insights from Barcelona
Presenter: Oriol Roig - Universitat Autònoma de Barcelona
- 2 Co-Designing Participation Processes for Regional Multimodal Transport: An Untapped Potential?
Presenter: Õnne Kask - Tallinn University
- 3 MaaS acceptance in global South cities: comparison of Bogota and Barranquilla (Colombia) and Manila (Philippines)
Presenter: Mauricio Orozco-Fontalvo - Universidade de Lisboa

- 4 Improving interest in public, active, and shared travel modes through nudging interventions
Presenter: Hannah Hook - Ghent University

Parallel Session D3: Public transport

 Room "Lederhosen"

Chair: Fabian Wenner

- 1 What's in a railway station? Developing a scientific model for sustainable railway stations of the future
Presenter: Spyridon Nektarios Koulouris - Technical University of Munich
- 2 Who buys housing with good public transport? Exploring residential mobility with house transaction data
Presenter: Erik Lunke - Institute of Transport Economics (TØI)
- 3 Exploring Seamless and Attractive Transfers to Public Transport Stations with Digital Tactical Urbanism
Presenter: Heike Marquart - German Aerospace Center (DLR)
- 4 Regional rail stations as catalysts and barriers for 15-minute-neighbourhoods. Transit-oriented or transit-adjacent development in the Munich Metropolitan Region?
Presenter: Fabian Wenner - Technical University of Munich

THURSDAY
April 11

9:00 - 9:30

Karen Lucas Keynote

Why social inclusion matters in transport planning now and in the future

 Room "Münchner Kindl"

9:30 - 11:00


Parallel Session E1: 15mC and walking (NECTAR Session)

 Room "Münchner Kindl"

Chair: Benjamin Büttner

- 1 Mixed methods approach to understanding perceived walkability in the 15 Minute-City
Presenter: Anna-Lena van der Vlugt - Research Institute for Regional and Urban Development
- 2 The Role of urban green infrastructure in 15-minute Cities
Presenter: Mathtab BaghaiePoor - Technical University of Munich
- 3 Walk the talk - mapping the 15-Minute City towards actionable policy in Malta
Presenter: Wendy Jo Mifsud & Therese Bajada - University of Malta
- 4 '23 minutes is walking distance, unless...': Factors reducing walking time thresholds of Twitter users
Presenter: Hannah Hook - Ghent University

Parallel Session E2: Public participation and governance


 Room "Brezn"

Chair: Hilda Tellioglu

- 1 Looking for consensus to create more liveable streets: Exploring the objectives, barriers and relationships of key stakeholders of street transformations
Presenter: Imre Keserü - Vrije Universiteit Brussel
- 2 Beliefs, governance and context of car-reduced planning - A comparison of new housing developments within and between cities
Presenter: Annika Schröder - ILS Research, Dortmund
- 3 Identifying which street characteristics promote walking for transport - A virtual reality think-aloud study
Presenter: Benjamin Beirens - Ghent University

- 4 Speculative design and human behavior in seeding the future of mobility
Presenter: Hilda Tellioglu - Technical University of Vienna

Parallel Session E3: Appraisal and evaluation (MCube Session)


 Room "Lederhosen"

Chair: Maximilian Pfertner

- 1 The Mobil-o-mat: A simplified assessment approach for early stages of transportation planning
Presenter: Yamam Alayasreih - Technical University of Munich
- 2 An alternative framework for the assessment of 'push and pull' transport schemes in metropolitan regions
Presenter: Jonas Horlemann - Technical University of Munich
- 3 Indicator development framework for innovative mobility programs - the top-down-bottom-up approach
Presenter: Matthias Grundei - Technical University of Munich

11:00 - 11:15

Coffee Break

 Room "Boazn"

11:15 - 12:45


Parallel Session F1: Parking and traffic control

 Room "Münchner Kindl"

Chair: Alex Erath

- 1 Parking supply and parking policies in European cities - An assessment based on public data
Presenter: Conny Louen - RWTH Aachen University
- 2 Comprehensive traffic calming methodology and impacts: findings from a small municipality in Slovenia
Presenter: Mojca Balant - Urban Planning Institute of the Republic of Slovenia
- 3 A Method to increase line capacity at peak hour with limited platform capacity
Presenter: Zhihua Jin - Technical University of Munich
- 4 Traffic impact of flexibly rented, private parking spaces
Presenter: Alex Erath - University of Applied Sciences Northwestern Switzerland


Parallel Session F2: Cycling network

 Room "Brezn"

Chair: Cecília Silva

- 1 Modelling road infrastructure potential for the appraisal of sustainable bicycling networks
Presenter: David Zani - ETH Zurich
- 2 City-wide cycling network extension and bicycle ridership in São Paulo: a causal analysis
Presenter: Francisco Macedo - Radboud University
- 3 A spatial accessibility analysis for cycling in Bari
Presenter: Alessandro Gardelli - University of Bari Aldo Moro
- 4 E-Bike city masterplan: Designing a car-reduced urban mobility future for Zurich
Presenter: Lukas Ballo - ETH Zurich

Parallel Session F3: Travel behaviour

 Room "Lederhosen"


Chair: David Vale

- 1 Data fusion from real-time and historical trajectories for the microscopic traffic flow simulation of the campus of the University of the Bundeswehr Munich
Presenter: Eftychios Papapanagiotou - Universität der Bundeswehr München

- **2** Changes to vehicle distance travelled in Germany, USA and Melbourne, Australia and demographic trends and the external influences
Presenter: Kieran Mann - Technical University of Munich
- **3** Identifying equitable solutions for the parking problem in Munich's Dreimühlenviertel with an integrated travel behavior and parking study
Presenter: Lukas Burger - Karlsruhe Institute of Technology
- **4** Residential relocation & travel behaviour - A comparison between residents of a car-reduced neighbourhood and a control group
Presenter: Simon Werschmöller - Goethe University Frankfurt am Main

12:45 - 13:45

Lunch Break

 Room "Boazn"

13:45 - 15:15


Parallel Session G1: Reducing car usage

 Room "Münchner Kindl"

Chair: Thomas Schönberger

- **1** Generating car dependence: exploration of factors from a multidimensional perspective in Lombardy, Italy
Presenter: Jaime Sierra Muñoz - Politecnico di Milano
- **2** Understanding politicians' positions about contentious car restrictive measures: public protest and ways to build support for them
Presenter: Robert Hrelja - Malmö University
- **3** Addressing infrequent car users to reduce car ownership in dense urban areas - a case study from Dreimühlenviertel in Munich
Presenter: Andreas Rall - Karlsruhe Institute of Technology
- **4** Composing effective packages of push and pull measures to reduce inner city car traffic
Presenter: Thomas Schönberger - Bundesinstitut für Bau- Stadt- und Raumforschung

Parallel Session G2: Governance for sustainable mobility (MCube Session)

 Room "Brezn"

Chair: Carolin Zimmer

- **1** Who is the nag, who is the drag? Comparing the visions for the future of mobility of policymakers and the population in Munich
Presenter: Franziska X. Meinherz & Stefanie Ruf - Technical University of Munich
- **2** Responsible Mobility governance at the regional level - an empirically grounded framework on mobility innovation in Munich
Presenter: Sophia Knopf - Technical University of Munich
- **3** Understanding local destabilization policies in the mobility sector: A comparison of mobility governance in Amsterdam, London and Munich
Presenter: Alina Weiss - Technical University of Munich
- **4** Making Mobility Futures by Experiment. Real-World and Virtual Testing as Governance in the Munich Mobility Landscape
Presenter: Michael Mögele - Technical University of Munich

Parallel Session G3: The inclusive 15mC

 Room "Lederhosen"

Chair: Hannah Hook

- **1** 15-minutes walking accessibility to primary schools across space and time
Presenter: Cecilia Silva - Universidade do Porto
- **2** The 15-minute neighbourhood game
Presenter: Kelt Garritsen - University of Twente

- **3** Equity in urban transportation planning: the 15-minute city approach. A case study of Oslo city, Norway
Presenter: Saeid Pira - Molde University College
- **4** Accessibility inequality across Europe: a comparison of 15-minute pedestrian accessibility in cities with 100,000 or more inhabitants
Presenter: David Vale - Universidade de Lisboa

15:15 - 15:45


Catherine Gall Keynote

The power of urban proximities

 Room "Münchner Kindl"

15:45 - 16:00


Coffee Break

 Room "Boazn"

16:00 - 16:30

Poster Session 2 - Chair: Maria Jose Zuñiga

 Room "Münchner Kindl": Pitching session

 Room "Dirndl": Poster hanging

- **1** Improving the Field Deployment Process of Innovative Junction Control Algorithms with a Cloud-Based Approach
Presenter: Robert Markowski - German Aerospace Center (DLR)
- **2** Cyclability index to determine bike friendliness of Weimar's urban environment
Presenter: Melisa Yildiran - Bauhaus -Universität Weimar
- **3** Experimentation on public spaces: does it support urban (micro)mobility?
Presenter: Freddy Nogueira - Universidade de Lisboa
- **4** Development of a workflow to analyze the mobility behavior of a university campus with trajectory data
Presenter: Hanna Grüsner - Universität der Bundeswehr München
- **5** Unlocking cargo bikes' potential for sustainable mobility and logistics in the Brussels capital region
Presenter: Juliana Betancur Arenas - Vrije Universiteit Brussel
- **6** On-demand transportation beyond big city areas: User motivations and ridership prospects
Presenter: Ferdinand Ebner - University of Innsbruck
- **7** Planning for urban logistics in the ± 15 -Minute City: A review on data-driven approaches for predicting commodity flows
Presenter: Jonathan Vanneck - Vrije Universiteit Brussel

16:30 - 17:30

Closing Ceremony

Benjamin Büttner: Visioning the future of urban mobility

 Room "Münchner Kindl"

19:00

Conference Dinner - Löwenbräukeller

FRIDAY
April 12

09:00 - 09:30

Welcome to TUM

Vorhoelzer Forum - Room 5166 - TUM Main Campus

09:30 - 11:00

Parallel Workshop 1

Vorhoelzer Forum - Room 5166 - TUM Main Campus

■ Agenda for change: Driving transport policy towards justice

Chair: Sindi Haxhija & David Duran-Rodas

Maximum number of participants: 35

This workshop delves into the critical intersection of transport policy and justice, aiming to catalyze actionable change. Our “Agenda for Change” initiative is a call to all researchers interested in reshaping the transport landscape for equity and fairness. We will first aim to understand the systemic injustices embedded within current transportation policies through engaging in discussions and collaborative activities. The aim is to examine how these policies often perpetuate disparities related to access, affordability, and environmental impact, disproportionately affecting disadvantaged communities.

Facilitated by researchers and addressing researchers, the workshop offers a platform to explore innovative strategies for driving inclusive transportation reforms, bridging the gap between policy and research. Participants can share experiences, exchange best practices, and co-create solutions prioritizing justice and equity in transport planning and implementation. Join us in advancing an agenda that not only envisions but actively works towards a transportation system that serves all with dignity, fairness, and a rise of opportunities.

Parallel Workshop 2

Room 1713 - TUM Main Campus

■ New Highway traffic analysis methods for the highway capacity manual

Chair: Scott Washburn & Ana Moreno

Maximum number of participants: 45

The standard reference in the U.S. for traffic analysis techniques is the Highway Capacity Manual (HCM). In this workshop we will cover two recently completed National Cooperative Highway Research Projects (NCHRP) focused on rural highway traffic analysis.

The first, Project 17-65 (Improved Analysis of Two-Lane Highway Capacity and Operational Performance), was focused on updating the two-lane highway analysis methodology in the HCM, which is now incorporated into the recently released 7th edition of the HCM. The second, Project 08-135 (Reliability and Quality of Service Evaluation Methods for Rural Highways), was focused on the development of 1) a facility-level analysis methodology for rural highways for the HCM, 2) a reliability analysis method for rural highways, and 3) research recommendations for bicycling analysis on rural highways. This workshop will provide an overview of these two projects and the Highway Capacity Manual and serve as a trigger for group discussions on traffic analysis techniques.

11:00 - 11:30

Coffee Break

11:30 - 13:00

Parallel Workshop 3

Vorhoelzer Forum - Room 5166 - TUM Main Campus

■ 15mC - What is next?

Chair: Benjamin Büttner & Sebastian Seisenberger

Maximum number of participants: 35

The 15-Minute City: From Vision to Reality. The aim is to discuss the past, present and future of the 15-minute city concept taking into account what we have learned during the mobil.TUM conference. We will facilitate an open exchange with all on how to make the 15-minute City concept more tangible for planning practice in order to create more liveable and inclusive cities by creating accessibility by proximity.

Parallel Workshop 4

Room 1713 - TUM Main Campus

■ Planning the active city

Chair: George Liu & Mathab Baghaie Poor

Maximum number of participants: 15

Join us for an immersive Mobility UX Workshop, designed to provide firsthand experience on the challenges of aging in urban environments. In this session, participants will get a chance to don specially designed blinding suits and utilize crutches to navigate through a series of real-world scenarios. This innovative approach aims to deepen understanding of the mobility limitations that come with aging, fostering empathy and sparking innovation in design thinking for urban spaces. Our workshop is structured to challenge perceptions and encourage participants to think critically about the accessibility of urban infrastructure. Through the use of blinding suits, attendees will experience diminished visual capabilities, a common aspect of aging, while crutches will simulate reduced mobility and stability. This hands-on exploration is complemented by guided discussions, where participants can share insights and develop strategies for creating more inclusive urban environments.

14:00 - 15:00

Excursions

■ 1 City Center Walking Tour

Meeting point: Marienplatz Fish Fountain

Maximum number of participants: 50

Explore the most important sights of Munich, such as the Frauenkirche, the New City Hall or the Hofbräuhaus on this guided tour through Munich's old town. You will have an official guide from München Tourismus for yourself to experience the city in a very characteristic way—meeting point: Marienplatz Fish Fountain.

■ 2 City Biking Tour

Meeting point: TUM Main campus in front of TUM Audimax

Maximum number of participants: 15

“Cycling in Munich - the good, the bad, and the ugly” - in a short (60-90min) bike tour we will take a look at the different shades of cycling infrastructure in Munich. This will be a relaxed, urban ride - please bring your own bike, but no other equipment is needed. Participants will receive detailed information by email.

Where to get a bike?

Bike Sharing options:

1. Download MVGO App [here](#).
2. DB Bike: Call a Bike App [here](#).
3. Private companies like Swapfiets and Rebike offer daily and weekly bike rentals.

We would like to express our gratitude to the members of our scientific committee, review board and session chairs for your valuable support in the conference development.

■ SCIENTIFIC COMMITTEE & REVIEW BOARD ■

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- Benjamin Büttner - Technical University of Munich
- David Duran-Rodas - Technical University of Munich
- Alex Erath - University of Applied Sciences Northwestern Switzerland
- Catherine Gall - Sorbonne Research Lab - Chaire ETI
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- Imre Keserü - Vrije Universiteit Brussel
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