

Workshop

Wednesday, 3 May 2023

12.00 h, room C1-002, Campus Nord UPC-BarcelonaTech
(*Jordi Girona 1-3, Plaça Camins, Campus Nord UPC – 08034 Barcelona*)

Sustainable cities for diversity

Urban planning, including transport planning, has been undergoing a remarkable and necessary change in recent years. From a design centred on the motor vehicle, we have moved on to a design that aims to make cities liveable, enjoyable and clean. Technological development can contribute to this goal, but only if applied within a planning focusing on people. And people who are diverse in age, physical condition, gender, socio-economic situation, uses... Sustainable cities and mobility must respond to the needs of all of them.

Agenda

- 12.00 - 12.10 h: Opening – **Margarita Martínez-Díaz (UPC) & Javier Ortigosa (AMB/UPC)**
- 12.10 - 12.40 h: Keynote speak - **Wafa Elias (SCE)** – “Is it possible to develop sustainable cities without closing the gender mobility gap?”
- 12.45 - 13.05 h: **Mohamed Abouelela (TUM)** – “A novel approach to evaluate the equitable use of shared e-scooter for better liveable cities”
- 13.10 to 13.30 h: **Jaume Barceló (UPC)** – “Thoughts on sustainability, sustainable cities, and cities as complex systems to account for their sustainability”
- 13.35 to 14.00 h: Panel discussion and open Q&A



Wafa Elias
(SCE)



**Mohamed
Abouelela**
(TUM)



Jaume Barceló
(UPC)



**Margarita
Martínez-Díaz**
(UPC)



Javier Ortigosa
(AMB/UPC)



SHORT BIOS

Prof. Wafa Elias

Prof. Wafa Elias received the Ph.D. in Urban and Regional Planning from the Technion-Israel Institute of Technology. She was the Head of the Civil Engineering Department, SCE- Shamoon College of Engineering since 2013, and a lecturer at the Transportation Research Institute, Technion - Israel Institute of Technology. Currently, she is a visiting professor at the Technical University of Munich (TUM), department of Civil, Geo and Environmental Engineering. Her main research interests are travel behavior and drivers' behavior, road safety, especially among minorities and sustainability and security in transport. In most of her studies, women's issues play an important key. Prof. Elias developed a theoretical framework that shows the relationship between daily activity patterns and driving behavior and the risk of being involved in road crashes. She has also examined the relations between gender and mobility patterns, including the number of trips, their purposes, trip mode, and the complexity of daily activity patterns.

Mohamed Abouelela

Mohamed Abouela holds a bachelor's degree in Civil Engineering from Ain Shams University, Egypt, and a Master of Science in Transportation Systems from the Technical University of Munich Germany. He has worked as a transportation engineer and project manager in several locations with around 15 years of experience. He is currently lecturer, PhD candidate, researcher, head of project administration and head of the subgroup Transport Data Analytics within the Chair of Transportation Systems Engineering at the Technical University of Munich (TUM). His research focuses on human factors and behavioral modeling in transportation, including topics of emerging mobility systems, data analytics, and data-driven approaches and models. He participates in numerous EU and national research projects.

Prof. Jaume Barceló

Jaume Barceló holds a PhD in Physical Sciences. Between 1986 and 2014 he worked as a Professor in the Department of Statistics and Operations Research at the Polytechnic University of Catalonia (UPC), where he is currently Emeritus Professor. His research interests include traffic modelling techniques, transport planning, transport optimisation and simulation and their applications to urban logistics and intelligent transport systems, as well as equity in mobility and Mobility as a Service. He has more than 35 years of experience in research and software development in the field of transport modelling, being the microscopic traffic simulator Aimsun, used today worldwide by more than 4,500 users in 75 countries, developed under his direction. He was Scientific Director of the Transport and ICT Projects of the inLab FIB at UPC and Academic Director of CARNET. He has participated in more than 20 EU projects.

Prof. Margarita Martínez-Díaz

Margarita Martínez-Díaz received the PhD in Civil Engineering from the University of A Coruña, in collaboration with the Universitat Politècnica de Catalunya and the Hochschule Magdeburg-Stendal. She is now assistant professor in the area of Transport Engineering and Infrastructure of the Civil and Environmental Engineering Department at the UPC-BarcelonaTech. She is also an associated researcher to the Chair of Transportation Systems Engineering at TUM and a yearly visiting professor at the Hochschule Magdeburg-Stendal. She belongs to the Barcelona Innovative Transportation (BIT) research group and her current lines of research include active traffic management, specially travel time information systems, connected and automated driving and human factors in transportation. In this context, she is member of the EU Ambassadors of Diversity in Transport Network and has coordinated during 2 years the international project "Women in Urban Mobility" (EIT Urban Mobility) on behalf of the UPC.

Javier Ortigosa

Javier Ortigosa holds a doctorate degree in traffic engineering from ETH Zürich, and two master's degrees in civil engineering (UPC, Barcelona) and transportation management (Chalmers, Göteborg). Since 2016, Javier coordinates mobility and urban planning issues at the Barcelona Metropolitan Master Plan (PDU) team at Àrea Metropolitana de Barcelona (AMB). He is also adjunct professor of Sustainable Mobility at EIT Master in Urban Mobility master at the UPC. Also with educational purposes, Javier is very active in the media as well as in the Chamber of Civil Engineering in disseminating information about mobility.