

Welcome to

# **International Workshop: Decarbonizing the Transport Sector through Innovative Technologies**

Wei-Shiuen Ng, Nikola Medimorec, Patrick Jochem

# World Conference on Transport Research Society



- WCTRS provides a forum for the interchange of ideas among transport researchers, managers, policy makers, and educators from all over the world, from a perspective which is multi-modal, multi-disciplinary, and multi-sectoral.
- President: Tae Hoon Oum, University of British Columbia
- World conferences since 1973 (Pre-WCTR in Bruges, Belgium)
  - 1977: 1st WCTR in Rotterdam, Netherlands
  - 1980: 2nd WCTR in London, UK
  - ...

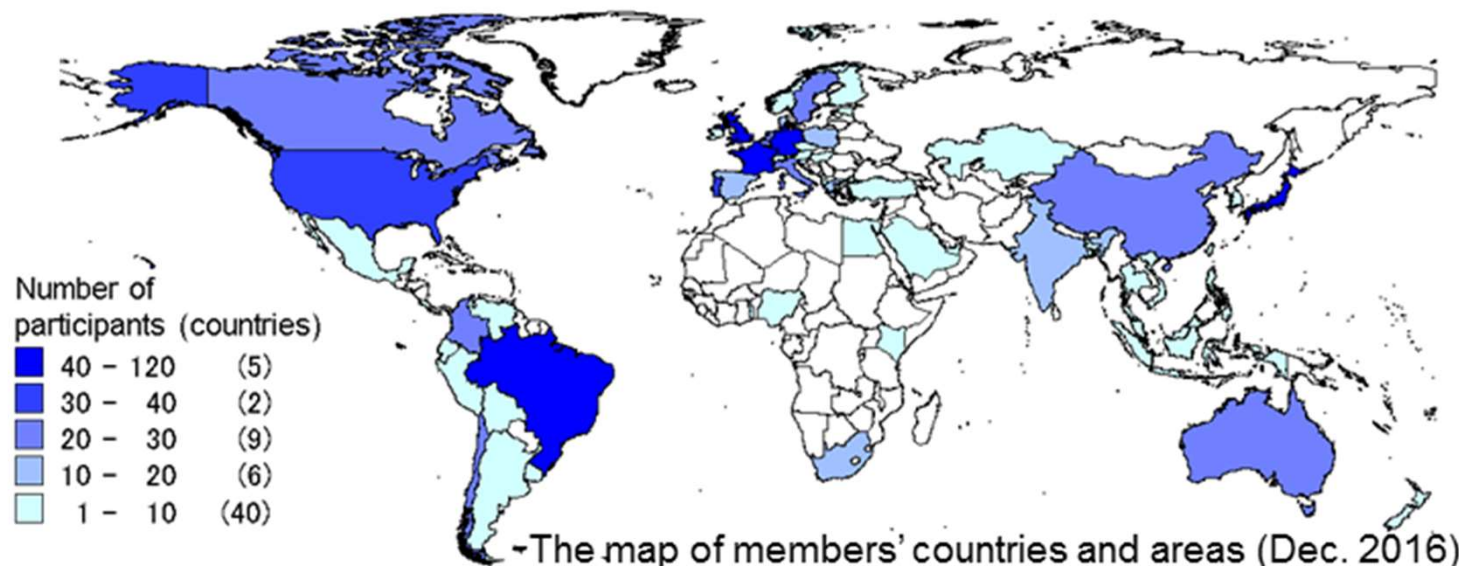


# Global perspective



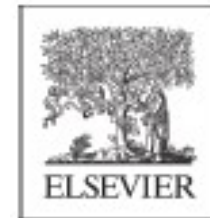
**Members** <sup>1374</sup> registered members of researchers and practitioners from <sup>83</sup> countries and areas as of January 2017.

The young researchers' initiative "WCTRS-Y" provides Ph.D students' grants and honoraria for young members in total 18,500 Euro.



WCTRS runs two official journals published by Elsevier:  
“**Transport Policy**” and “**Case Studies on Transport Policy**”.

Cooperation has been established with 24 partner journals.



# Special Interest Groups and Partner Institutions



## ■ Special Interest Groups (SIG):

- TA A: Transport Modes: General
- TA B: Freight Transport and Logistics
- TA C: Traffic Management, Operations and Control
- TA D: Activity and Transport Demand
- TA E: Transport Economics and Finance
- **TA F: Transport, Land Use and Sustainability**
- TA G: Transport Planning and Policy
- TA H: Transport in Developing and Emerging Countries
- TA I: Infrastructure Design and Maintenance



## ■ Partner institutions:

OECD/ITF, World Bank, UNFCCC, SLoCaT, EASTS, CUPUM, CODATU, TRA & TRB

# F2: Transport, Climate Change and Clean Air



- **SIG F2 objectives and research areas**

The core objective of our group is to provide interdisciplinary scientific evidence on the interaction between transport systems and the environment as well as to provide policy recommendations to relevant decision-makers with the aim of encouraging policy action towards low-carbon sustainable transport. Our main research areas are:

- analysing the environmental merits of different transport options
  - investigating negative externalities originating from transport activities
  - assessing environmental transport policies and measures
  - understanding the role of technology (social decisions) in supporting low-carbon transport
- **Number of members: about 100**
  - **Name of SIG Chair/Co-chair**

Patrick Jochem (KIT), Wei-Shiuen Ng (ITF), and Nikola Medimorec (SLoCat)

# The history of SIG f2



- 2001 9th WCTR WCTRS Seoul, Korea: Birth of SIG 11 by Joshi Hayashi
- ... (Lee Schipper)
- 2007 11th WCTR WCTRS Berkeley, US (Wolfgang Schade)
- 2008 Workshop at Fraunhofer ISI, Germany (WS)
- 2009 - 2021 COP participations
- 2009 Workshop Nagoya, Japan
- 2010 12th WCTR Lisbon, Portugal (WS)
- ...
- 2013 13th WCTR Rio de Janeiro, Brazil (JH)
- 2014 Int. Conference "Climate Change and Transport", Karlsruhe (PJ)
- 2015 Session during the COP 21 in Paris (PJ)
- 2016 14th WCTR Shanghai, China (PJ)
- 2018 Int. Conference "Transport, Climate Change, and Clean Air" Paris, France
- 2019 15th WCTR Mumbai, India
- 2021 Int. Workshop: Decarbonizing the Transport Sector through Innovative Technologies





# Our results from the last years



Marrakech  
Partnership



World Conference on Transport Research Society (WCTRS)  
Special Interest Group on Transport, Climate Change and Clean Air  
Inputs for the Talanoa Dialogue

A Talanoa Dialogue Event on Transport, Climate Change and Clean Air

Question 3 - How do we get there?



[www.wctrs-society.com](http://www.wctrs-society.com)



Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Transport Policy

journal homepage: <http://www.elsevier.com/locate/tranpol>



Editorial

Smart mobility and its impact on the environment



## Decarbonizing the Transport Sector through Innovative Technologies

# Agenda



13:00	<b>Welcome</b>	Wei-Shiuen, Nikola & Patrick
13:15	Zero-Carbon Transport Transition: Opportunities and Challenges	Pierpaolo Cazzola (ITF)
13:30	Learnings from DecarboN8 Conference	Greg Marsden (UoL)
13:45	Q&A on the objective of the workshop	All
14:00 (15'+5')	Optimizing Provincial Transportation Emission Policies in Canada	Anastasia Soukhov (MMC)
14:20 (15'+5')	Policy-Technology-Environment Nexus: A Digital-Twin Model for Autonomous UAVs Last-Mile Delivery	Elsayed Mohamed (MMC)
14:40 (15'+5')	Plug in hybrid vehicles: Insights on their potential to reduce CO <sub>2</sub> emissions in real-world operation	Jaime Suarez Corujo (JRC)
15:00 (15'+5')	Real-world insights into user acceptance of renewable fuels in passenger vehicles	Moritz Bergfeld (DLR)
15:20	Break	
15:40	<b>Discussion Session: New insights and contributions to COP26</b>	All
16:30	End of the Workshop	



# Workshop during WCTRS 2023 July, 17-23



- SIG f2 virtual event on 25th-29th July 2022?
- We have the following options:
  - A webinar with keynotes and a panel session
  - A poster session between labs from several institutes
  - A workshop with brainstorming on future research topics
  - A working session for a new book initiative
  - A meeting with our TRB sister committee
  - A convergence session with colleague academics from Montreal
  - An online serious gaming session
  - Etc.

*See you there!*

