

Global Pathways to Net-Zero: Behavioral, Social, and Technological Research and Innovation (R&I) Strategies for Transportation Decarbonization

Seventh EU-U.S. Transportation Research Symposium

Organized by the
European Commission
U.S. Department of Transportation
Transportation Research Board
Coordination and Support Action SYMPEUS

June 11—12, 2024
National Academies of Sciences, Engineering, and Medicine Building
2101 Constitution Ave. NW, Washington, D.C.

Tuesday, June 11, 2024

- 7:30 a.m. Registration and Breakfast
- 8:00 a.m. **Welcome and Opening Remarks**
Dr. Firas Ibrahim, Director of the Office of Research, Development and Technology, U.S. Department of Transportation
Dr. Gretchen Goldman, Climate Change Research and Technology Director, U.S. Department of Transportation
Torsten Klimke, Head of Innovation and Research, European Commission's Directorate-General for Mobility and Transport
Jane Amilhat, Head of Clean Transport Transitions, European Commission's Directorate-General for Research and Innovation
- 8:25 a.m. **Keynote Speakers – Importance of and Opportunities for Transportation Decarbonization**
Dr. Robert Hampshire, Deputy Assistant Secretary for Research & Technology, U.S. Department of Transportation
Ann Shikany, Deputy Assistant Secretary for Transportation Policy, U.S. Department of Transportation
- 8:35 a.m. **Introductions, Purpose, and Scope for the 7th EU-U.S. Symposium: Global Pathways to Net-Zero**
Dr. Chris Hendrickson, Professor Emeritus, Civil and Environmental Engineering, Carnegie Mellon University, *cochair*
Dr. Gereon Meyer, Head of the Department European and International Business Development, VDI/VDE Innovation + Technik GmbH, *cochair*

8:55 a.m.	Presentation of White Paper: Decarbonization in the Transportation System – A Joint Perspective from the United States and the European Union Dr. Kelly Fleming, Associate Director of Clean Energy, Federation of American Scientists Dr. Gereon Meyer, Head of the Department European and International Business Development, VDI/VDE Innovation + Technik GmbH
9:20 a.m.	Review of the Four Exploratory Topics Exploratory Topic 1: Accelerating the Transition to Electrification and Alternative Fuels Dr. Chris Hendrickson, Professor Emeritus, Civil and Environmental Engineering, Carnegie Mellon University Dr. Gereon Meyer, Head of the Department European and International Business Development, VDI/VDE Innovation + Technik GmbH Exploratory Topic 2: Ensuring a Just Transition to Net-Zero Transport Dr. Patricia Romero-Lankao, Professor and Canada Excellence Research Chair in Sustainability Transitions, Department of Sociology, University of Toronto Karen Vancluysen, Secretary General, POLIS Exploratory Topic 3: Leveraging Digitalization, Artificial Intelligence, and Other Integrated System-of-Systems Technologies to Decarbonize Transport Margriet van Schijndel – de Nooij, Program Director of Smart Mobility, Eindhoven University of Technology, The Netherlands Dr. Heng Wei, Professor, Civil and Architectural Engineering and Construction Management, University of Cincinnati Exploratory Topic 4: Implementing Sustainable and Resilient Land Use and Transportation System Design Dr. Tasman Crowe, Professor and Vice-President for Sustainability, University College Dublin, Ireland Timothy Sexton, Director of Public Works, City of Minneapolis
9:50 a.m.	Morning Refreshment Break
10:10 a.m.	Exploratory Topics: Group Discussions on Research and Innovation
1:00 p.m.	Networking Lunch
2:00 p.m.	Exploratory Topics: Group Discussions on Outcomes and Suggestions Each topic group reconvenes for 1 hour to synthesize summary on outcomes, suggestions, and takeaways to be discussed with the larger group during the open discussion.

- 3:00 p.m. **Open Discussion on Exploratory Topics – Topics 1 & 2**
 Everyone convenes in the same room and allows for open discussion of each topic. Each topic gets 30 minutes – 5-minute outcomes summary by notetakers from the working group session, followed by 25 minutes of open discussion for additional comments on each topic.
- 4:00 p.m. Afternoon Refreshment Break
- 4:15 p.m. **Open Discussion on Exploratory Topics – Topics 3 & 4**
 Everyone convenes in the same room and allows for open discussion of each topic. Each topic gets 30 minutes – 5-minute outcomes summary by notetakers from the working group session, followed by 25 minutes of open discussion for additional comments on each topic.
- 5:15 p.m. **Wrap-up for Day 1 and Adjourn**
 Group Photo with Einstein Statue
- 5:30 pm **Networking Reception**
 Light snacks and drinks available

(Notetakers and member(s) of the planning committee review takeaways, consolidate information overnight, and prepare key points for report out the next morning.)

Wednesday, June 12, 2024

- 7:30 a.m. Breakfast
- 8:00 a.m. **Review of Day 2 Agenda and Goals**
 Dr. Chris Hendrickson, Professor Emeritus, Civil and Environmental Engineering, Carnegie Mellon University, *cochair*
 Dr. Gereon Meyer, Head of the Department European and International Business Development, VDI/VDE Innovation + Technik GmbH, *cochair*
- 8:15 a.m. **Report Out on the Exploratory Topic Discussions**
 Facilitated by members of the planning committee.
 Four testimonies given by one volunteer/notetaker for each exploratory topic.
- 8:45 a.m. **Setting the Scene: Relevant U.S. and EU Policies, Programming, and Collaboration**
 Dr. Gretchen Goldman, Climate Change Research and Technology Director, U.S. Department of Transportation
 Torsten Klimke, Head of Innovation and Research, European Commission's Directorate-General for Mobility and Transport
 Jane Amilhat, Head of Clean Transport Transitions, European Commission's Directorate-General for Research and Innovation
- 9:45 am **Expert Feedback and Priorities**
 Review of participants' feedback and priorities from Slido poll

10:00 a.m.	Morning Refreshment Break
10:30 a.m.	R&I Collaboration Pathways – Programming Level: Opportunities, Challenges, and Themes Moderated by Jane Amilhat and Dr. Gretchen Goldman
12:00 p.m.	Networking Lunch (Notetakers consolidate information and prepare key points for report out)
1:00 p.m.	Report Out on R&I Collaboration Pathways – Programming Level: Opportunities, Challenges, and Themes Facilitated by notetakers.
1:10 p.m.	R&I Collaboration Pathways –Policy Level: Strategies, Instruments, & Tools Moderated by Torsten Klimke and Ann Shikany
2:40 pm	Afternoon Refreshment Break (Notetakers consolidate information and prepares key points for report out and closing debate)
3:10 p.m.	Report Out on R&I Collaboration Pathways – Policy Level: Strategies, Instruments, & Tools Facilitated by notetakers.
3:20 p.m.	Closing Debate: Last-Chance Assertions for Both Days Facilitated by Dr. Chris Hendrickson and Dr. Gereon Meyer
4:00 p.m.	Next Steps and Closing Remarks by Lead Delegates Jane Amilhat, Head of Clean Transport Transitions, European Commission’s Directorate-General for Research and Innovation Torsten Klimke, Head of Innovation and Research, European Commission’s Directorate-General for Mobility and Transport Victoria Sheehan, Executive Director, Transportation Research Board, National Academies of Sciences, Engineering, and Medicine Dr. Firas Ibrahim, Director of the Office of Research, Development and Technology, U.S. Department of Transportation
4:30 p.m.	Adjourn