



TRANSPORTATION SYSTEM-LEVEL RESILIENCE – CHALLENGES AND SOLUTIONS

Symposium, 12th September 2025, 0900 to 1630 (UTC-5)

FEDEX Institute of Technology. Room The Zone. FEDEX Building, University of Memphis,
USA

Refreshments and lunch kindly provided by University of Memphis

Symposium organised by international Task Force on Transport System Resilience members:



Symposium hosted by



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Transport modes are interconnected. The transportation network is only as resilient as its weakest link. Extreme weather events and other system shocks are impacting mobility and disrupting supply chains with increasing frequency. Strengthening preparedness is vital, not only at mode level, but at system level.

Join us as we bring together international and regional experts to embark on a journey to:

- Raise awareness of transport system interdependencies and the need for resilient, cross-modal solutions
- Highlight the potential consequences of inaction and a lack of preparedness
- Disseminate good practice case studies, both within modes and across modes
- Identify potential gaps in knowledge and research needs
- Facilitate collective action, continued discussion and knowledge exchange

The symposium will comprise a series of in person and online presentations by local and international experts, followed by a panel discussion. There will be plenty of opportunities for participants to engage, ask questions of the speakers, and share their own experiences.

Programme

0900 Registration

0915 Welcome

0930 – 1045 Session 1

Examples of mode level resilience initiatives: recognising and accommodating interdependencies

- A railways' perspective on resilient infrastructure: introducing ReRa Rain and ReRa Temp. Francisco Cabrera and Konstantina Kopsalidou, International Union of Railways (UIC).
- Examples of good practices and methodologies on how to deal with interdependencies in resilience approaches': French case study. Marie Colin, CEREMA, France/PIARC – World Road Association
- European aviation climate change adaptation and resilience: an overview. Rachel Burbidge, EUROCONTROL
- Urban flooding resilience. Dr. Ross Nazari, University of Memphis

1115 – 1230 Session 2

Consequences of extreme weather events: case studies

- Drought-related impacts on transport and supply chains: Parana-Paraguay case study. Gerardo Bessone, Port of Bahia Blanca, Argentina
- Impacts on the road transport system in Valencia due to floods: interdependencies and lessons learnt. Monica Laura Alonso, Valencia Local Road Network Manager, Spain
- Impact of extreme weather events on the European rail system: case study from the European Union Agency for Railways. Eva Valeri and Idriss Pagand, European Railways Agency (ERA)
- Extreme weather impacts: valuing the consequences of inaction to make the business case for investment in resilient transport. Jan Brooke, PIANC – World Association for Waterborne Transport Infrastructure

1330 – 1500 Session 3

Good practice examples of cross-modal resilience planning

- Informing post-disaster restoration through modelling interdependent agriculture and transportation networks. Professor Janey Smith Camp, University of Memphis
- Multimodal resilient transport research projects in The Netherlands. Thomas Bles, PIARC
- Adapting London's integrated transport network to the changing climate. Katherine Drayson, Transport for London, UK
- Developing Contingency Routing Plans Using Archived and Near-Real Time Data. Dr. Sabya Mishra, Professor, Director C-TIER I Director CEAT, Department of Civil Engineering, The University of Memphis
- Critical connections: building a resilient intermodal supply chain. Chris Engelbrecht, Missouri Department of Transportation

1515 – 1630 Session 4

Why it matters!

- Facilitators: Katherine Chambers, US Army Engineer Research and Development Center, and Rachel Burbidge, EUROCONTROL
- Introductory presentations:
- Daniel Pallme, Assistant Chief of Passenger Transportation, Rail and Freight, Tennessee Department of Transportation

Panel discussion

- Dr. Sabyasachee Mishra, University of Memphis
- Daniel Pallme, Tennessee Department of Transportation
- Chris Engelbrecht, PIARC
- Melinda Pagliarello, Managing Director, Environmental Affairs, ACI North America



REGISTER HERE

**In-person attendance is encouraged, but online participation is also possible.
Register here: bit.ly/4o8WzX5**

**Those attending in person may like to take advantage of the special hotel rates negotiated for the PIANC-Smart Rivers conference:
<https://smartrivers2025.com/location/#hotel>**

