Freight, Security, Emergency Management, Resilience

Take Advantage of TRB as a Resource

Neil Pedersen, TRB Executive Director
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## Transportation Research Board (TRB)

### Convene
- 13,300 attendees at TRB annual meeting
- 220 technical committees, 330 subcommittees, 18 task forces
- 50-70 conferences & workshops; 100+ webinars per year

### Research
- Highway, Transit, Airport Cooperative Research Programs
- 900+ papers published in *Transportation Research Record* /yr.
- TRID: 1.1 million records of transportation research citations

### Advise
- Independent, objective, evidence-based, thorough, fair, non-partisan policy studies done in accordance with National Academies of Sciences, Engineering, and Medicine procedures
TRB Freight Committees

• Freight Transportation Data
• Truck and Bus Safety
• Freight Rail Transportation
• Freight Transportation Economics and Regulation
• Freight Transportation Planning and Logistics
• International Trade and Transportation
• Urban Freight Transportation

• Agricultural Transportation
• Military Transportation
• Transportation of Hazardous Materials
• Intermodal Freight Transport
• Intermodal Freight Terminal Design and Operations
• Truck Size and Weight
• Trucking Industry Research
TRB Committees on Resilience, Security and Emergencies

- Transportation Systems Resilience Section
- Critical Transportation Infrastructure Protection
  - Risk Assessment and Planning
  - Physical Security
  - Training, Education and Technology Transfer
  - Cyber Security
  - Supply Chain Security
- Logistics of Disaster Response and Business Continuity
- Emergency Evacuations
- Transportation of Hazardous Materials
- Aviation Security and Emergency Management
TRB Annual Meeting

• 2017 Annual Meeting
  – 23 sessions and workshops on resilience
  – 18 sessions or workshops on security and emergencies
  – 55 sessions on freight transportation
  – Meetings of all committees

• 2018 Annual meeting
  – January 7-11, 2018, Washington DC Convention Center
Recent/Ongoing Freight Research

- NCFRP-50, *Improving Freight Transportation Resilience in Response to Supply Chain Disruptions*
- NCHRP 17-75, *Leveraging Big Data to Improve Traffic Incident Management*
- NCHRP 03-121, *Incorporating Freight, Transit, and Incident Response Stakeholders into Integrated Corridor Management*
- NCHRP 08-98, *Guide for Identifying, Classifying, Evaluating, and Mitigating Truck Freight Bottlenecks*
- NCHRP 20-114, *Multimodal Freight Transportation Research Roadmap*
Ongoing NCHRP Resilience Research

• 20-117 Deploying Transportation Resilience Practices in State DOTs
  – Transportation Resilience Guide and Toolkit
  – National Summit and Peer Exchange

• 20-59(54) Transportation System Resilience: Research Roadmap and White Papers

• 20-59(55) Transportation System Resilience: CEO Primer & Engagement

• 20-59(56) Support for State DOT Transportation Systems Resilience and All-Hazards Programs
  – Assist SCOTSEM in developing new strategic plan
Joint EU-US Symposia on Resilience

• 2016: Transportation Resilience: Adaptation to Climate Change
  – Flooding, sea level rise, heat and drought
  – Planning, managing, recovering

• 2017: Mitigation of Climate Change through Decarbonization Strategies

• Suggested research agendas
Truck Size and Weight Study

• TRB committee review of USDOT’s Truck Size and Weight Study
• Criticized lack of progress on data and methodological issues
• A new TRB policy committee is about to begin a study to develop a research plan to address data and methodological deficiencies
TRB Resilience Task Force

• TRB’s Executive Committee created a task force on resilience, which identified a number of activities and research topics, primarily related to adaptation.

• The task force is being reconstituted to:
  – provide strategic guidance for TRB’s convening and research activities
  – Link to sustainability issues
  – Improve communications and partnerships on resilience with other organizations, including AASHTO
Resources

• Key freight staff:
  – Scott Babcock - sbabcock@nas.edu
  – Scott Brotemarkle - sbrotemarkle@nas.edu
  – Bill Rogers - wrogers@nas.edu

• Key resilience/security staff:
  – Bill Anderson - wbanderson@nas.edu
  – Stephan Parker - saparker@nas.edu

• TRB website: www.trb.org
• “TRB Resilience: Key Products & Projects” webpage
• Neil Pedersen - npedersen@nas.edu