TRB Snap Search: Resilience

TRB’s involvement in research on Resilience from 2021-2024

The Transportation Research Board (TRB) provides innovative, research-based solutions to improve how we move. TRB is part of the National Academies of Sciences, Engineering, and Medicine, an independent, non-profit institution that provides objective advice on scientific, engineering, and medical issues.

A resource to the nation and to the transportation community worldwide, TRB provides an extensive portfolio of services:

- Opportunities for information exchange on current transportation research and practice
- Management of cooperative research and other research programs
- Analyses of national transportation policy issues and guidance on federal and other research programs
- Publications and access to research information from around the world

All available Snap Searches can be accessed online here: http://www.trb.org/InformationServices/Snap.aspx

TRB Research

TRID - The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation

- Click here to view search results on TRB published research Resilience within the past year.

Specialty Report

- Critical Issues in Transportation for 2024 and Beyond
- Critical Issues in Transportation 2019
- COVID-19 Addendum to Critical Issues in Transportation
- Racial Equity Addendum to Critical Issues in Transportation

Recent Reports & Publications

- Airport Cooperative Research Program (ACRP)
  - Creating Self-Directed Resiliency Plans for General Aviation Airports

- Consensus Study Reports
  - Investing in Transportation Resilience: A Framework for Informed Choices

- National Cooperative Highway Research Program (NCHRP)
  - Report 1066 - Risk Assessment Techniques for Transportation Asset Management: Conduct of Research
  - Report 1014 - Developing a Highway Framework to Conduct an All-Hazards Risk and Resilience Analysis
  - Report 985 - Integrating Effective Transportation Performance, Risk, and Asset Management Practices
  - Synthesis 624 - Addressing Climate Resilience and Greenhouse Gases in the Transportation Planning Process
  - Synthesis Report 610 - Leveraging Social Media Data for Emergency Preparedness and Response
  - Synthesis Report 602 - Resilient Design with Distributed Runoff Modeling
  - Web-Only Document 385 - Business Case and Communications Strategies for State DOT Resilience Efforts
  - Web-Only Document 378 - Emergency Response: Organizational and Operational Models Used by State DOTs

- Transportation Research Circulars
  - Circular 288 - Innovations in Freight Data: 2023 Workshop
  - Circular 285 - Workshop on Building More Resilient Supply Chains
  - Circular 277 - 13th National Conference on Transportation Asset Management
  - Circular 275 - Measuring and Managing Freight System Resilience Workshop

- Transit Cooperative Research Program (TCRP)
Recently Completed Projects/Pending Publication

- ACRP 11-02 / Task 44 - Developing an Airport Communicable Disease Response Plan Template
- ACRP 02-93 - Guidebook for PFAS Management at Airports
- NCHRP 23-15 - Guidance on Risks Related to Emerging and Disruptive Transportation Technologies

Current & Upcoming Projects

**Current Projects**
- ACRP 02-97 - Update to the Guidelines, Tools, and Resources Related to ACRP Reports 11, 147, and 160
- ACRP 02-98 - Airport Energy Resiliency Primer and Roadmap
- ACRP 03-60 - Incorporating Shock Events into Aviation Demand Forecasting and Airport Planning
- ACRP 04-25 - Airports and Communicable Diseases—Preparedness and Response
- ACRP 03-68 - Integration of Contingency Planning for Small Airports
- ACRP Synthesis 11-03 / Topic S10-20 - Identifying Military Resources and Strategies to Improve Civilian Airport Resiliency
- NCHRP 01-62 - Impact of Flooding on the Resiliency of Pavement Systems
- NCHRP 08-146 - Integrating Resiliency into Transportation System Operations
- NCHRP 08-51 - Risk Management at State DOTs: Building Momentum and Sustaining the Practice
- ACRP 11-08 (24-02) - ACRP Insight Event - Improving Extreme Weather Resiliency of Airport Infrastructure
- NCHRP 15-80 - Design Guide and Standards for Infrastructure Resilience
- NCHRP 20-06 / Topic 27-03 - Environmental and Planning Law and Transportation
- NCHRP 20-44 (44) - Implementing the Design Practices Guide for Applying Climate Change Information to Hydrologic and Coastal Design of Transportation Infrastructure
- NCHRP 23-13 (04) - Scoping Supply Chain Challenges and Solutions Amid COVID-19
- NCHRP 23-24 - Methods to Allow Agencies to Incorporate Quantitative Risk Assessment at Project and Network Level
- NCHRP 23-26 - Measuring Impacts and Performance of State DOT Resilience Efforts
- NCHRP 23-32 - Transportation Asset Risk and Resilience
- NCHRP 23-33 - Managed Retreat to Address Extreme Weather, Natural Hazards, and Climate Impacts
- NCHRP 25-64 - Integrating Greenhouse Gas Emissions and Climate Change in Environmental Reviews: Resources for State DOTs
- NCHRP Synthesis 20-07 / Topic 55-17 - Practices to Enhance Resiliency of Existing Roadway and Embankment Culverts
- TCRP E-14 - Lithium-Ion Battery Transit Bus Fire Prevention and Risk Management
- TCRP Synthesis I-07 / Topic SA-61 - State of Practice for Transit Recovery in the Aftermath of Severe Weather Events

**Upcoming Projects**
- ACRP 03-77 - Incorporating Climate Change into Aviation Forecasts
- ACCRP 04-30 - Aircraft Emergency Management Capabilities Development
- ACRP 07-27 - Seismic Resiliency for Horizontal Infrastructure at Airports
- ACRP 11-08 (24-02) - ACRP Insight Event — Improving Extreme Weather Resiliency of Airport Infrastructure
- ACRP 11-08 (24-03) - ACRP Insight Event – Airport Energy Resiliency
- NCHRP 11-181 - Impacts of Climate Change and Extreme Weather on the Mobility of Socially Vulnerable Populations
- NCHRP 15-61A - Hydrologic and Hydraulic Design Guide to Incorporate Climate Science in Transportation Infrastructure
- NCHRP 20-24 (148) - Environmental Resiliency for Roadway Infrastructure
- NCHRP 20-44 (41) - Deploying Transportation Resilience Practices in State DOTs: Implementation
- NCHRP 23-13 (03) - Guide on Truck Rest and Service Areas for Critical Supply Chain Delivery
- NCHRP 23-38 - Incorporating Risk Management into Roadway Infrastructure Maintenance Practices
- NCHRP 24-52 - Guidelines for Resilient Erosion- and Sediment-Control Practices
- NCHRP 25-71 - Prevention and Control of Wildfires Through Roadside Vegetation Management
- NCHRP Synthesis 20-05 / Topic 56-07 - Practices for Incorporating Risk into Bridge Management Plans
Reports from the National Academies Press on Resilience

- Searchable Collections -- Flood Resilience: Preparedness and Recovery Collection
- Supply Chain Disruptions: Impacts on Vulnerable Communities: Proceedings of a Workshop—in Brief
- National Plan for Health Workforce Well-Being
- Climate Security in Central America
- Community-Driven Relocation: Recommendations for the U.S. Gulf Coast Region and Beyond
- Building Resilience in the Face of Emerging Threats to Child and Youth Well-Being: Proceedings of a Workshop—in Brief
- Integrating Public and Ecosystem Health Systems to Foster Resilience: A Workshop to Identify Research to Bridge the Knowledge-to-Action Gap: Proceedings of a Workshop
- Integrating the Human Sciences to Scale Societal Responses to Environmental Change: Proceedings of a Workshop
- Strengthening Equitable Community Resilience: Criteria and Guiding Principles for the Gulf Research Program’s Enhancing Community Resilience (EnCoRe) Initiative
- Advancing Health and Resilience in the Gulf of Mexico Region: A Roadmap for Progress
- Building Resilience into the Nation’s Medical Product Supply Chains
- Resilience for Compounding and Cascading Events
- Enhancing Community Resilience through Social Capital and Connectedness
- Motivating Local Climate Adaptation and Strengthening Resilience: Making Local Data Trusted, Useful, and Used

Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic
- AM000 - Transportation Sustainability and Resilience Group
- AMF80 - Community Resources and Impacts
- AMR00 - Section - Transportation Systems Resilience
- AMR40 - Systems, Enterprise, and Cyber Resilience
- B0171 - Transportation Resilience Metrics

Task Forces - Search for task force under committee here

CRP Panels – Select CRP Panel and Synthesis Panel and search by topic
- D08151 - Risk Management at State DOTs: Building Momentum and Sustaining the Practice
- D1580 - Design Guide and Standards for Infrastructure Resilience
- D204441 - Deploying Transportation Resilience Practices in State DOTs: Implementation
- D205953A - A Guide to Flood Forecasting for Transportation Resilience
- D2326 - Measuring Impacts and Performance of State DOT Resilience Efforts
- D2332 - Transportation Asset Risk and Resilience
- D2335 - Developing New Performance Metrics for Risk Management
- D2338 - Incorporating Risk Management into Maintenance Practice
- DA0292 - General Aviation Airports and Resilience: Complete Toolkits for Self-Directed Planning
- SAS1020 - Resilience Partnerships with the Air National Guard and other Military Organizations
- TE114 - Lithium-Ion Battery Transit Bus Fire Prevention and Risk Management
- TF29 - Mental Health, Wellness, and Resilience for Transit System Workers

Councils
- A001C – Young Member Coordinating Council

Recent and Upcoming Events

Upcoming TRB Conferences/Webinars – Use left hand menu to filter events

TRB Webinar: Visualizing Risk for Resilience
August 5, 2024

TRB Webinar: Designing the Transportation Agency of the Future
August 7, 2024

TRB’s Transportation Symposium on Environment, Energy, and Livable Economies
August 25-28, 2024
Denver, CO

Past Conferences/Webinars - In the Past Events tab under Types, choose what event you are interested in, search titles by keyword

**TRB Webinar: Impacts, Lessons, and Insights from Recent Roadway Structure Failures**  
*July 16, 2024*

**TRB Webinar: Lessons of Agency Resilience During Periods of Disruption**  
*March 20, 2024*

**TRB’s Transportation Resilience 2023**  
*November 13-15, 2023*  
*Washington, DC*

**National Cooperative Highway Research Program (NCHRP) Transportation Emergency Management and Sec Summit and Exchange**  
*November 15-16, 2023*  
*Washington, DC*

**TRB Webinar: Solutions for Resilient Supply Chain Management**  
*November 16, 2023*

**TRB Webinar: Transportation Resilience Addressing Climate Change Challenges**  
*July 26, 2023*

**TRB Webinar: Community-Based and Equitable Transportation Response in Disaster**  
*July 19, 2023*

**TRB’s Transportation Research Information Services (TRIS)**

TRIS includes the [TRB Library](#) and the [TRIS Databases](#) (listed below) which are available free on TRB’s website.

The TRB Library provides information services to TRB staff, sponsors, TRB Committee members and panels and researchers. Access to the TRB Library is a benefit to TRB sponsors and TRB committee members.

In cooperation with your State DOT Library or Information Service, the TRB Library provides:

- Reference and research assistance
- Literature searches
- Articles for TRB Committee work

The TRB Library provides training on effective and efficient use of the following TRIS resources:

- **Transportation Research International Documentation (TRID)** – [trid.trb.org](http://trid.trb.org) - The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation
- **Transportation Research Thesaurus (TRT)** – [trt.trb.org](http://trt.trb.org) - A tool to improve the indexing and retrieval of transportation information.
- **Research in Progress (RiP) Database** – [rip.trb.org](http://rip.trb.org) - Current or recently completed transportation research projects
- **Publications Index (PubsIndex) Database** – [pubsindex.trb.org](http://pubsindex.trb.org) - The papers, articles and reports published by the Transportation Research Board, Strategic Highway Research Programs or the Marine Board

**Contact or Questions:** TRBLibrary@nas.edu