TRB Snap Search: Security & Emergencies

TRB's involvement in research on Security & Emergencies from 2020-2022

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](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 Security & Emergencies within the past two years.

Subject Webpages
- Security & Emergencies Research at TRB
- Transportation in the Face of Communicable Disease

Specialty Report
- 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)
  - Report 233 - Airport Biometrics: A Primer
  - Synthesis 115 - Practices in Airport Emergency Plans
  - Synthesis 109 - Escalator Falls
  - Synthesis 107 - Models for Law Enforcement at Airports
  - Synthesis 106 - Airport Risk Identification and Prioritization Practices
  - Synthesis 99 - Emergency Working Groups at Airports
  - Synthesis 95 - Airport Incident Reporting Practices
  - Web-Only Document 50 - Research Roadmap on Safety Issues
  - Web Resource 9 - Airport Emergency Plan Development Tool
  - Web Resource 8 - Integrating Social Media with Emergency Management at Airports
- National Cooperative Highway Research Program (NCHRP)
  - NCHRP 03-127 - Cybersecurity of Traffic Management Systems
  - Report 976 - Resilience Primer for Transportation Executives
  - Report 975 - Transportation System Resilience: Research Roadmap and White Papers
  - Report 963 - A Pandemic Playbook for Transportation Agencies
  - Report 938 - Incorporating the Costs and Benefits of Adaptation Measures in Preparation for Extreme Weather Events and Climate Change—Guidebook
  - Report 931 - A Guide to Emergency Management at State Transportation Agencies
  - Report 930 - Security 101: A Physical and Cybersecurity Primer for Transportation Agencies
Current & Upcoming Projects

- **Synthesis 556** - Asset Management Approaches to Identifying and Evaluating Assets Damaged Due to Emergency Events
- **Web-Only Document 297** - Developing a Guide to Emergency Management at State Transportation Agencies
- **Web-Only Document 293** - Deploying Transportation Resilience Practices in State DOTs
- **Web-Only Document 271** - Guidelines to Incorporate the Costs and Benefits of Adaptation Measures in Preparation for Extreme Weather Events and Climate Change
- **Web-Only Document 266** - Developing a Physical and Cyber Security Primer for Transportation Agencies

**Special Reports**

**Transit Cooperative Research Program (TCRP)**
- **Report 229** - Assessing and Mitigating Electrical Fires on Transit Vehicles
- **Synthesis 146** - Transit Security Preparedness

**Transportation Research Circulars**
- **E-Circular 268** - Insights, Inclusion, and Impact: Framing the Future for Women in Transportation
- **E-Circular 267** - Summary of Transportation Research Needs Related to COVID-19
- **E-Circular 265** - Transportation Resilience 2019: 2nd International Conference on Resilience to Natural Hazards and Extreme Weather

**Current & Upcoming Projects**

**Current Projects**
- **ACRP 01-41** - Airport Blockchain Implementation Guidebook
- **ACRP 02-92** - Creating Self-Directed Resiliency Plans at GA Airports
- **ACRP 02-93** - Guidebook for Environmental Management of PFAS at Airports
- **ACRP 03-57** - A Guidebook to Prepare Airports for Transformations in Wireless Connectivity
- **ACRP 03-60** - Incorporating Shock Events into Traffic and Forecasting and Airport Planning
- **ACRP 04-24** - Guidelines to Develop an Anti-Human Trafficking Action Plan for Airports
- **ACRP 04-25** - Airports and Communicable Diseases—Preparedness and Response
- **ACRP 10-29** - Aircraft Jet Blast Estimation Tool
- **ACRP 10-30** - Evaluating the Effectiveness of an Airport’s Wildlife Hazard Management Program
- **ACRP Synthesis 11-03/Topic S04-26** - Managing an Emergency or Incident Associated with Flight Diversion at Airports
- **NCHRP 02-26** - Implementation of Life-Cycle Planning Analysis in a Transportation Asset Management Framework
- **NCHRP 03-129** - Essential Communications
- **NCHRP 08-107** - A Guidebook for Emergency Contracting Procedures for Administration of a Regional Emergency
- **NCHRP 08-129** - Incorporating Resilience Concepts and Strategies in Transportation Planning Efforts
- **NCHRP 10-102** - A Guidebook for Risk-Based Construction Inspection
- **NCHRP 15-71** - Contingency Factors to Account for Risk in Early Construction Cost Estimates for Transportation Infrastructure Projects
- **NCHRP 15-80** - Design Guidance and Standards for Resilience
- **NCHRP 17-46** - Comprehensive Analysis Framework for Safety Investment Decisions
- **NCHRP 20-06/Topic 25-03** - Managing Enhanced Risk in the Mega Project Era
- **NCHRP 20-07/Task 239** - Identification and Delineation of Incident Management and Multi-Agency Emergency Response Functions
- **NCHRP 20-44(02)** - Implementation of the AASHTO Guide for Enterprise Risk Management
- **NCHRP 20-59** - Surface Transportation Security and Resilience Research
- **NCHRP 20-59(55)** - Transportation System Resilience: CEO Primer & Engagement
- **NCHRP 20-116** - Emergency Management in State Transportation Agencies
- **NCHRP 20-123(04)** - Development of a Risk Management Strategic Plan and a Research Roadmap
- **NCHRP 20-124** - Deploying Transportation Security Practices in State DOTs
- **NCHRP 20-125** - Strategies for Incorporating Resilience into Transportation Networks
- **NCHRP 20-127** - Business Case and Communications Strategies for State DOT Resilience Efforts
- **NCHRP 20-128** - Emergency Response: Organizational and Operational Models Used by State DOTs
- **NCHRP 23-09** - Scoping Study to Develop the Basis for a Highway Standard to Conduct an All-Hazards Risk and Resilience Analysis
- **TCRP I-05/Topic 19-02** - Legal Issues and Emerging Technologies
• **Upcoming Projects**
  - TCRP J-05/Topic 19-03 - Navigating the Complexities of Sensitive Security Information (SSI) and Protected Critical Infrastructure Information (PCII)
  - ACRP 03-68 - Integrated Contingency Planning for Small and Non-Hub Airports
  - ACRP 04-26 - Uncontrolled Terminal Evacuations: Planning, Response, and Recovery
  - ACRP 04-29 - Transportation Emergency Response Application (TERA): Migration Options Beyond 2020
  - ACRP 05-03 - Mitigating and Responding to Airport Cybersecurity Events
  - ACRP 11-01/Topic 14-01 - Legal Considerations for Airports Responding to Pandemics
  - NCHRP 08-146 - Integrating Resiliency into Transportation System Operations
  - NCHRP 14-45 - Guidelines for Response Planning, Assessment, and Rapid Restoration of Service of Bridges in Extreme Events
  - NCHRP 20-06/Topic 26-04 - Pandemics and Contractual Issues
  - NCHRP 20-102(16) - Impacts of Connected, Automated Vehicle Technologies on Traffic Incident Management Response
  - NCHRP 23-11 - Transportation Emergency Management/Security Summit and Exchange
  - NCHRP 23-13 - Transportation Research Related to COVID-19
  - NCHRP 23-13(03) - Guidance for State DOTs on Truck Rest and Service Areas for Critical Supply Chain Delivery
  - NCHRP 23-13(04) - Scoping Supply Chain Challenges and Solutions amid COVID-19
  - NCHRP 23-13(05) - Regulatory Relief of Commercial Vehicle Weight Requirements for Emergency Transportation of Critical Commodities
  - NCHRP 23-13(06) - Assessing the Equity and Workforce Mobility Implications of the Expansion of E-commerce and Direct-to-Consumer Delivery Services
  - NCHRP 23-15 - Guidance on Risks Related to Emerging and Disruptive Transportation Technologies
  - NCHRP 23-24 - Develop Methods to Allow Agencies to Incorporate Quantitative Risk Assessment at Project and Network Level
  - NCHRP Synthesis 20-05/Topic 53-03 - Practices Leveraging Social Media Data for Emergency Preparedness and Response
  - TCRP A-36A - Transportation Emergency Response Application (TERA): Migration Options Beyond 2020
  - TCRP F-30 - Guide for Protecting Transportation Employees and the Traveling Public from Airborne Diseases
  - TCRP H-60 - Lessons Learned from Covid-19: Strategies to Enhance Racial and Social Equity through Public Transportation as a Community Lifeline
  - TCRP I-05/Topic 19-04 - Transit Sponsor and Contractor Delay Damages and Remedies Due to Third Parties - Transit Facility Improvements-Common Legal Issues and Solutions
  - TCRP I-11/Task 42 - Transportation Services for People with Disabilities and Older Adults during a Pandemic and Other Emergencies: Lessons Learned during the COVID-19 Pandemic
  - TCRP Synthesis J-07/Topic SH-23 - Partnerships for Equitable Pandemic Response and Recovery

Reports from the [National Academies Press](https://www.nationalacademies.org) on Security & Emergencies

- Coronavirus Resources Collection
- Pandemic Resources Collection
- Conflict and Security Issues Collection
- Earthquakes, Floods and Natural Disasters Collection

- Forum on Medical and Public Health Preparedness for Disasters and Emergencies
- Crisis Standards of Care - Ten Years of Successes and Challenges
- Globally Resilient Supply Chains for Seasonal and Pandemic Influenza Vaccines
- Exploring Disaster Human Services for Children and Youth
- Plasma Science - Enabling Technology, Sustainability, Security, and Exploration
- Nuclear Proliferation and Arms Control Monitoring, Detection, and Verification
- The Security of America's Medical Product Supply Chain
- Regional Ballistic Missile Defense in the Context of Strategic Stability
- Communications, Cyber Resilience, and the Future of the U.S. Electric Power System
- Plasma Science - Enabling Technology, Sustainability, Security, and Exploration
- Evidence-Based Practice for Public Health Emergency Preparedness and Response
- Understanding and Responding to Global Health Security Risks from Microbial Threats in the Arctic
- Strengthening Post-Hurricane Supply Chain Resilience
- A Framework for Assessing Mortality and Morbidity After Large-Scale Disasters
- Emerging Technology Intersections and Partnerships for Counterproliferation
- A Strategic Vision for Biological Threat Reduction
Committees & Panels

Sign-up to be a committee "Friend"

**TRB Standing Committees** - Search by transportation mode and committee topic
- **AMR10** – Critical Transportation Infrastructure Protection
- **AMR20** – Logistics of Disaster Response and Business Continuity
- **AMR40** - Systems, Enterprise, and Cyber Resilience
- **AT040** – Transportation of Hazardous Materials
- **AV090** – Aviation Security and Emergency Management
- **AV095** - New Users of Shared Airspace

**Task Forces** - Search for *task force* under committee here

**Councils**
- **A001C** – Young Members Coordinating Council

**Panels**
- **CRP Panels Related to Security & Emergencies**

Recent and Upcoming Events

**Upcoming Conferences** - Left hand menu “upcoming conferences by topic”
(Conferences cosponsored by TRB are denoted with an asterisk.)

- **Accelerated Bridge Construction Conference***
  *December 8, 2021*
  online

- **TRB Virtual Careers in Motion Networking Fair**
  *December 8, 2021*
  online

- **American Society of Civil Engineers (ASCE) Geo-Congress 2022***
  *March 20, 2022*
  Charlotte, NC

- **18th Biennial National Harbor Safety Committee Conference**
  *June 13, 2022*
  Boston, MA

- **TRANSED: Mobility, Accessibility, and Demand Response Transportation Conference**
  *September 12, 2022*
  online

- **TRB Scenario Planning Conference - abstracts accepted through December 17**
  *September 19, 2022*
  Washington, D.C.

**Upcoming Events** – In the Upcoming Events tab under Types, choose what event you are interested in, search titles by keyword

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

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

• Transportation Research Thesaurus (TRT) – trt.trb.org - A tool to improve the indexing and retrieval of transportation information.

• Research in Progress (RiP) Database – rip.trb.org - Current or recently completed transportation research projects

• Research Needs Statements (RNS) – rns.trb.org - Research needs as identified by TRB Technical Activities standing committees

• Publications Index (PubsIndex) Database – 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