

**TRB** TRANSPORTATION RESEARCH BOARD

## TRB Snap Search: Rail Safety Innovations

### TRB's involvement in research on Rail Safety Innovations 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>

### 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 Rail Safety Innovations within the past two years.

### Subject Webpage

- [Rail Research at TRB](#)

### Specialty Reports

- [Critical Issues in Transportation 2019](#)
- [COVID-19 Addendum to Critical Issues in Transportation](#)
- [Racial Equity Addendum to Critical Issues in Transportation](#)

### Recent Reports & Publications

- [IDEA Safety Projects](#)
  - [Report 36](#) - Onboard High-Bandwidth Fiber-Optic Sensing System for Broken Rail Detection
- [Transit Cooperative Research Program \(TCRP\)](#)
  - [IDEA Report 95](#) - Connected and Automated Parking Feasibility – A Pilot Study
  - [IDEA Report 92](#) - Augmented Reality Dispatcher Interface
  - [Report 229](#) - Assessing and Mitigating Electrical Fires on Transit Vehicles
  - [Report 218](#) - Characteristics and Elements of Non-Punitive Employee Safety Reporting Systems for Public Transportation
  - [Report 212](#) - Stray Current Control of Direct Current-Powered Rail Transit Systems: A Guidebook

### Current & Upcoming Projects

- [Current Projects](#)
  - [NCHRP 08-111](#) - Effective Decision-Making Methods for Freight-Efficient Land Use
  - [TCRP A-46](#) - Quantitative Procedures for Designing and Operating Ferry Transit Services
  - [TCRP J-05/Topic 19-03](#) - Navigating the Complexities of Sensitive Security Information (SSI) and Protected Critical Infrastructure Information (PCII)
  - [TCRP Synthesis J-07/Topic SB-34](#) - Coordination of Public Transit Services and Investments with Affordable Housing Policies
- [Upcoming Projects](#)
  - [NCHRP 08-156](#) - Planning for Innovative and Emerging Mobility Futures at Intermodal Passenger Facilities
  - [NCHRP 08-158](#) - Communicating the Value, Interactions, and Impacts of Freight to Stakeholders
  - [NCHRP 15-79](#) - Development of Guidance for Non-Standard Roadside Hardware Installations

- [NCHRP 22-53](#) - Development of Guidance for Enhanced Delineation of Barriers and other Roadside Safety Hardware, Slopes, and Hazards
- [TCRP D-19](#) - Phase II TCRP Project D-17 - Detecting and mitigating low level DC fault currents in transit systems thus eliminating electrical fires in tunnels and rights-of-way
- [TCRP D-21](#) - Planning for Innovation & Emerging Mobility Futures at Intermodal Passenger Facilities
- [TCRP J-05/Topic 20-02](#) - Liability Insurance Issues for Transit Lawyers: A Primer

### Reports from the [National Academies Press](#) on Safety Innovations

- [Service Life Assessment and Predictive Modeling for an Aging Critical Infrastructure](#)
- [Engineering for Pandemics: Preparedness, Response, and Recovery](#)
- [The Future of Electric Power in the United States](#)
- [Exploring the Current Landscape of Consumer Genomics](#)
- [Compounded Topical Pain Creams - Review of Select Ingredients for Safety, Effectiveness, and Use](#)
- [Regulating Medicines in a Globalized World](#)
- [A Quadrennial Review of the National Nanotechnology Initiative](#)
- [Evidence-Based Practice for Public Health Emergency Preparedness and Response](#)

### Committees & Panels

[Sign-up to be a committee "Friend"](#)

**TRB Standing Committees** – Search by transportation mode and committee topic

- [AMR30](#) - Transportation for National Defense
- [AP065](#) - Rail Transit Systems
- [AR000](#) - Rail Group
- [AR010](#) - Intercity Passenger Rail
- [AR020](#) - Passenger Rail Transportation
- [AR030](#) - Railroad Operating Technologies
- [AR040](#) - Freight Rail Transportation
- [AR050](#) - Railroad Infrastructure Design and Maintenance
- [AR060](#) - Rail Transit Infrastructure Design and Maintenance
- [AR070](#) – Rail Safety
- [AR080](#) - Highway/Rail Grade Crossings
- [AT010](#) - Freight Transportation Economics and Regulation
- [AT020](#) - International Trade and Transportation
- [AT030](#) - Agricultural and Food Transportation
- [AT040](#) - Transportation of Hazardous Materials
- [AT045](#) - Intermodal Freight Transport
- [E1008](#) - Rail Safety Innovations Deserving Exploratory Analysis (IDEA)

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

### Councils

- [A001C](#) - Young Members Coordinating Council

### Recent and Upcoming Events

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

**[11th International Conference on the Bearing Capacity of Roads, Railways, and Airfields\\*](#)**

June 28, 2022

Trondheim, Norway

**[TRANSED: Mobility, Accessibility, and Demand Response Transportation Conference](#)**

September 12, 2022

Online

**[TRB Scenario Planning Conference](#)**

September 19, 2022

Washington, DC

[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](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
- **Research Needs Statements (RNS)** - [rns.trb.org](http://rns.trb.org) - Research needs as identified by TRB Technical Activities standing committees
- **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](mailto:TRBLibrary@nas.edu)