



## TRB Snap Search: Rail Safety Innovations

### TRB's involvement in research on Rail Safety Innovations from 2017-2019

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

### 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](#)

### Recent Reports & Publications

- [Safety IDEA Projects](#)
  - [Report 32](#) - Railroad Bridge Inspections for Maintenance and Replacement Prioritization Using Unmanned Aerial Vehicles (UAVs) with Laser Scanning Capabilities
  - [Report 31](#) - Modeling and Validation of Standards for a Sleeping Compartment on Accessible Passenger Rail Vehicles
- [Second Strategic Highway Research Program \(SHRP2\)](#)
  - [Report](#) - Fueling Freight Movement: Emerging Technologies Help Clarify South Florida's Regional Petroleum Supply Chain: Freight Demand Modeling and Data Improvement Implementation Support
- [Transit Cooperative Research Program \(TCRP\)](#)
  - [IDEA Report 83](#) - Track Circuit Monitoring Tool: Standardization and Deployment at Chicago Transit Authority

### Current & Upcoming Projects

- [Current Projects](#)
  - [NCHRP 08-111](#) - Effective Decision-Making Methods for Freight-Efficient Land Use
  - [Safety IDEA Project 35](#) - Non-contact Deflection Monitoring System for Timber Railroad Bridges
  - [Safety IDEA Project 34](#) - Prototype System for Managing Enterprise Rail Transport Risk for Hazmat
  - [Safety IDEA Project 33](#) - Adaptive Prestressing System for Concrete Crossties
  - [Safety IDEA Project 29](#) - Self-Deicing LED Signal for Railroad and Highway Intersections
  - [TCRP C-23](#) - Assessing and Mitigating Electrical Fires on Transit Vehicles
  - [Transit IDEA J-04/IDEA 90](#) - sUAS-Based GeoINTEL for Commuter Rail Parking in Rural and Suburban Areas
- [Upcoming Projects](#)
  - [TCRP F-27](#) - Characteristics and Elements of Non-Punitive Employee Safety Reporting Systems for Public Transportation

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

- [Protecting the Health and Well-Being of Communities in a Changing Climate](#)

### Committees & Panels

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

[TRB Standing Committees](#) – Search by transportation mode and committee topic

- [ABI65T](#) - Innovations in Freight Data Workshop
- [AHB60](#) - Highway/Rail Grade Crossings
- [AP065](#) - Rail Transit Systems
- [AP070](#) - Commuter Rail Transportation
- [AR000](#) - Rail Group
- [AR010](#) - Intercity Passenger Rail
- [AR020](#) - Passenger Rail Equipment and Systems Integration
- [AR030](#) - Railroad Operating Technologies
- [AR040](#) - Freight Rail Transportation
- [AR050](#) - Railroad Track Structure System Design
- [AR055](#) - Rail Transit Infrastructure
- [AR060](#) - Railway Maintenance
- [AR070](#) - Railroad Operational Safety
- [AT010](#) - Freight Transportation Economics and Regulation
- [AT020](#) - International Trade and Transportation
- [AT030](#) - Agricultural Transportation
- [AT035](#) - Military Transportation
- [AT040](#) - Transportation of Hazardous Materials
- [AT045](#) - Intermodal Freight Transport
- [AT050](#) - Intermodal Freight Terminal Design and Operations
- [E1008](#) - Rail Safety IDEA Program Committee

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

#### CRP Panels

- [Project Panels Related to Rail](#)

#### Policy Study

- [B0137](#) - Evaluation of the Federal Railroad Administration Research and Development Program

#### Councils

- [A0040T](#) - Young Member Council

### Recent and Upcoming Events

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

**[14th National Light Rail and Streetcar Conference\\*](#)**

*April 7-9, 2019*

**Jersey City, New Jersey**

**[Innovations in Freight Data Workshop](#)**

*April 9-10, 2019*

**Irvine, California**

**[First International Conference on 3D Printing and Transportation](#)**

*November 20-21, 2019*

**Washington, DC**

[Webinars](#) – View upcoming webinars, suggest a webinar or add registration information

#### [Past Webinars](#)

- [Rail Sessions](#)

### 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:**

**TRID** – The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation - [trid.trb.org](http://trid.trb.org)

**Practice Ready Papers (PRP) Database** - Papers with information that is ready for immediate implementation or requires minimal additional research or implementation effort - [prp.trb.org](http://prp.trb.org)

**Publications Index (PubsIndex) Database** – The papers, articles and reports published by the Transportation Research Board, Highway Research Board, Strategic Highway Research Programs or the Marine Board - [pubsindex.trb.org](http://pubsindex.trb.org)

**Research in Progress (RiP) Database** – Current or recently completed transportation research projects - [rip.trb.org](http://rip.trb.org)

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

Contact the Library at [TRBLibrary@nas.edu](mailto:TRBLibrary@nas.edu) or 1 (202) 334-2989