TRB's involvement in research on Innovation from 2020-2021

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 on Innovation in the past year.

Specialty Websites

- Transformational Technologies

Specialty Report

- Critical Issues in Transportation 2019
- COVID-19 Addendum to Critical Issues in Transportation

Recent Reports & Publications

- Airport Cooperative Research Program (ACRP)
  - Report 227 - Evaluating and Implementing Airport Privatization and Public-Private Partnerships
  - Report 223 - Performance Measures for State Aviation Agencies
  - Report 222 - Collecting and Sharing of Operations and Safety Data
  - Report 218 - Building and Maintaining Air Service Through Incentive Programs
  - Report 217 - Guidance for Diversity in Airport Business Contracting and Workforce Programs
  - Synthesis 106 - Airport Risk Identification and Prioritization Practices
  - Web-Only Document 49 - Research Roadmap on Airport Administration & Human Resource Issues

- Conference Proceedings on the Web
  - Proceedings 27 - Flight Plan to Recovery: Preparing Airports for the Return of the Traveling Public

- National Cooperative Highway Research Program (NCHRP)
  - NCHRP 25-25/Task 120 - Use of the State Department of Transportation Portal to the International Stormwater BMP Database
  - IDEA Report 212 - Non-Gating Guardrail Terminal
  - IDEA Report 207 - MILDGLASS: GFRP Strand for Resilient Mild Pre-Stressed Concrete
  - IDEA Report 203 - SaferCushion
  - Report 952 - Guidebook for Managing Data from Emerging Technologies for Transportation
  - Report 948 - Guide for Pedestrian and Bicyclist Safety at Alternative and Other Intersections and Interchanges
  - Report 932 - A Research Roadmap for Transportation and Public Health
  - Report 924 - Foreseeing the Impact of Transformational Technologies on Land Use and Transportation
  - Synthesis 558 - Availability and Use of Pedestrian Infrastructure Data to Support Active Transportation Planning
  - Synthesis 557 - Utility Pole Safety and Hazard Evaluation Approaches
  - Synthesis 545 - Electronic Ticketing of Materials for Construction Management

Updated 06/21/2021
Current & Upcoming Projects

- **Web-Only Document 289** - Business Models to Facilitate Deployment of Connected Vehicle Infrastructure to Support Automated Vehicle Operations
- **Web-Only Document 287** - Planning and Implementing Multimodal, Integrated Corridor Management: Guidebook
- **Web-Only Document 282** - Framework for Managing Data from Emerging Transportation Technologies to Support Decision-Making

- **Safety IDEA Program**
  - **Report 36** - Onboard High-Bandwidth Fiber-Optic Sensing System for Broken Rail Detection

- **Transit Cooperative Research Program (TCRP)**
  - **Innovation in Action**: Accomplishments of the Transit IDEA (Innovations Deserving Exploratory Analysis) Program
    - **IDEA Report 94** - Evaluation of Transit Vehicle Brake Inspection through Ultrasonic Emissions Analysis
    - **IDEA Report 92** - Augmented Reality Dispatcher Interface
    - **IDEA Report 89** - Dynamic Vehicle to Infrastructure TCIP Communications Laboratory Proof of Concept
    - **IDEA Report 88** - Evaluation of an Automatic, Individual Computer-Based Driver Education and Training Program
    - **IDEA Report 84** - Development of a Mass-Based Automated Passenger Counter
    - **Report 218** - Characteristics and Elements of Non-Punitive Employee Safety Reporting Systems for Public Transportation
    - **Synthesis 154** - Innovative Practices for Transit Planning at Small to Mid-Sized Agencies
    - **Synthesis 145** - Current Practices in the Use of Onboard Technologies to Avoid Transit Bus Incidents and Accidents
    - **Web-Only Document 73** - Guide to Joint Development for Public Transportation Agencies: Appendices

- **Transportation Research Circulars**
  - **E-Circular 272** - Technology Exchange on Local Roads Bridge Programs
  - **E-Circular 264** - Conference on Health and Active Transportation

Current & Upcoming Projects

- **Current Projects**
  - **ACRP 01-40** - Evaluating the Traveler's Perspective to Improve the Airport Customer Experience
  - **ACRP 01-43** - Conducting Consumer Research of Air Passengers
  - **ACRP 01-46** - A Guide for Geospatial Data Governance Policies and Procedures
  - **ACRP 01-47** - A Guide to Developing a Culture of Innovation at Airports
  - **ACRP 03-49** - Effective Collaboration to Plan and Respond to Communicable Disease Threats
  - **ACRP 03-51** - Electric Aircraft of the Horizon -- An Airport Planning Perspective
  - **ACRP 03-57** - A Guidebook to Prepare Airports for Transformations in Wireless Connectivity
  - **ACRP 07-17** - Update to ACRP Report 40: Airport Roadway Analysis and Curbside Congestion Management Strategies
  - **ACRP 08-03** - Construction Safety and Phasing Plans
  - **ACRP 09-18** - Rapid Airfield Concrete Pavilion Slab Replacement and Patching
  - **ACRP 09-19** - Airfield Pavement Markings - Effective Techniques for Removal and Temporary Applications
  - **ACRP 11-02/Task 37** - Periodic Report on Transformative Technology at Airports
  - **ACRP 11-02/Task 41** - Toward a Touchless Airport Journey
  - **BTSCRP BTS-01** - Guidance for Employer-Based Behavioral Traffic Safety Programs for Drivers in the Workplace
  - **BTSCRP BTS-02** - Guide for Behavioral Traffic Safety Messaging on Variable Message Signs
  - **BTSCRP BTS-06** - MPO and SHSO Coordination on Behavioral Traffic Safety
  - **BTSCRP BTS-07** - Assessing the Impacts of Connected, Automated, and Autonomous Vehicles on the Future of Transportation Safety
  - **BTSCRP BTS-09** - The Influence of Infrastructure Design on Distracted Driving
  - **BTSCRP BTS-12** - State Practices Promoting Older Driver Safety
  - **BTSCRP BTS-15** - Highway Safety Strategies for Rural Communities
  - **NCHRP 03-128** - Business Intelligence Techniques for Transportation Agency Decision Making
  - **NCHRP 03-135** - Wrong-Way Driving Solutions, Policy, and Guidance
  - **NCHRP 03-140** - Guidelines for Applications of RFID and Wireless Technologies in Highway Construction and Asset Management
  - **NCHRP 05-22A** - Gaps and Emerging Technologies in the Application of Solid-State Roadway Lighting
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<td>Development of an Automated and Rapid Conditioning and Testing Device for Cracking and Rutting</td>
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<td>A Smart IoT Proximity Alert System for Highway Work Zone Safety</td>
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<td>Legal Issues in Transit Mega Projects--Case Studies</td>
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- **Transit IDEA J-04/IDEA 91** - Comprehensive Wayfinding for All (CWall)

**Upcoming Projects**
- **ACRP 01-41** - Airport Blockchain Implementation Guidebook
- **ACRP 03-63** - Modernizing Air Cargo Operations and Infrastructure at U.S. Airports
- **ACRP 04-25** - Airports and Communicable Diseases—Preparedness and Response
- **ACRP 06-08** - Human Factors in Airport Operations
- **ACRP 10-32** - U.S. Airport Industry Adoption of Automated Ground Vehicle Systems
- **ACRP BTS-14** - Informing the Selection of Countermeasures by Evaluating, Analyzing, and Diagnosing Contributing Factors that Lead to Crashes
- **NCHRP 03-142** - Evaluating the Impacts of Real-Time Warnings and Variable Speed Limits on Safety and Travel Reliability during Weather Events
- **NCHRP 03-144** - Leveraging Existing Traffic Signal Assets to Obtain Quality Traffic Counts
- **NCHRP 07-31** - State DOT Usage of Bicycle and Pedestrian Data: Practices, Sources, Needs, and Gaps
- **NCHRP 08-128** - Snapshots of Planning Practices
- **NCHRP 08-130** - Best Practices in Coordination of Public Transit and Ride Sharing
- **NCHRP 08-136** - Guidance on Using Performance-Based Management Approaches for Maintenance
- **NCHRP 08-139** - Guide for Preventing and Mitigating the Risk of Bridge and Tunnel Strikes by Motor Vehicles
- **NCHRP 08-142** - Virtual Public Involvement: A Manual for Effective, Equitable, and Efficient Practices for Transportation Agencies
- **NCHRP 08-144** - Best Practices in Determining Rural Transit Fleet Size – How to Provide Service for Changing Demographics of Rural Ridership (Right-sizing of Rural Transit Fleets)
- **NCHRP 08-151** - Building Risk-Management Momentum in Agencies
- **NCHRP 08-153** - Guidance on Improving Truck Traffic Estimates in Design Traffic Forecasts
- **NCHRP 08-155** - Researching and Responding to Racial Disparities in Construction
- **NCHRP 08-156** - Planning for Innovative and Emerging Mobility Futures at Intermodal Passenger Facilities
- **NCHRP 08-157** - Best Practices for Data Fusion of Probe and Point Detector Data
- **NCHRP 08-158** - Communicating the Value, Interactions, and Impacts of Freight to Stakeholders
- **NCHRP 09-69** - Recommended Procedures for Verifying Material Quantities at Asphalt Mix Plants
- **NCHRP 10-112** - Guidelines for Digital Technologies and Systems for Remote Construction Inspection for Highway Infrastructure Projects
- **NCHRP 14-45** - Model Procedures for Post-Event Bridge Damage Assessment and Engineering Evaluation
- **NCHRP 14-47** - Tools and Technology for Roadside Landscape Asset Management
- **NCHRP 15-79** - Development of Guidance for Non-Standard Roadside Hardware Installations
- **NCHRP 15-81** - Guideline for Depicting Existing and Proposed Utility Facilities in Design Plans
- **NCHRP 19-18** - Transitioning Fuel Tax Assessments to a Road Usage Charge
- **NCHRP 20-07/Task 358** - Reducing Risks to Worker Safety in Work Zones Due to Distracted Drivers
- **NCHRP 20-24(138)** - Collective and Individual Actions for State Departments of Transportation Envisioning and Realizing the Next Era of America’s Transportation Infrastructure – Phase I
- **NCHRP 20-24(132)** - Understanding Knowledge Management in Context with Other Organizational Practices
- **NCHRP 20-44(34)** - Successful Practices for State Transportation Research Office’s Complying with 2 CFR 200 (NCHRP 20-111)
- **NCHRP 20-44(36)** - Workshops on Long-Range Strategic Issues Affecting Preservation, Maintenance, and Renewal of Highway Infrastructure
- **NCHRP 20-102(20)** - Workforce Capability Strategies for State and Local Agencies
- **NCHRP 20-102(27)** - Realistic Timing Estimates for Automated Vehicle Implementation
- **NCHRP 20-102(33)** - Safety of Vulnerable Road Users in a C/AV Future
- **NCHRP 20-123(12)** - System Mobility and Emerging Technologies (SMET): Strategic Planning Session and Research Roadmap Development
- **NCHRP 20-129** - Best Management Practices to Address Encampments on State Highway Rights of Way
- **NCHRP 23-11** - Transportation Emergency Management/Security Summit and Exchange
- **NCHRP 23-15** - Guidance on Risks Related to Emerging and Disruptive Transportation Technologies
- **NCHRP 23-19** - Practices for Transportation Agency Procurement and Management of Advanced Technologies
- **NCHRP 23-23** - Data Governance Design and Implementation - Links Between Governance Approaches and Performance Effects in DOTs
- **NCHRP 22-53** - Development of Guidance for Enhanced Delineation of Barriers and other Roadside Safety Hardware, Slopes, and Hazards
- **NCHRP Synthesis 20-05/Topic 53-09** - Use of Unmanned Aerial Systems for Highway Stormwater Inspections
- **TCRP C-25** - Bus Driver Security Barrier Design–The Challenges and Solutions
- **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
Reports from the National Academies Press on Innovation

- Enhancing Federal Clean Energy Innovation
- Learning from Rapid Response, Innovation, and Adaptation to the COVID-19 Crisis
- DoD Engagement with Its Manufacturing Innovation Institutes
- Innovations in Pharmaceutical Manufacturing on the Horizon
- Information Technology Innovation - Resurgence, Confluence, and Continuing Impact
- Enhancing Federal Clean Energy Innovation
- Exploring the Frontiers of Innovation to Tackle Microbial Threats
- The Role of NIH in Drug Development Innovation and Its Impact on Patient Access
- Leveraging Commercial and Other Innovation for Future U.S. Navy Data Warfare Needs
- Safeguarding the Bioeconomy

Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic

- ABE25 - Congestion Pricing
- ABG20 - Transportation Education and Training
- ABJ30 - Urban Transportation Data and Information Systems
- ABJ65T - Freight Data Workshop
- ABJ95 - Visualization in Transportation
- ABR35T - 11th University Transportation Center Spotlight Conference: Rebuilding and Retrofitting the Transportation Infrastructure
- ADB45 - Travel Forecasting Resources
- ADC10 - Environmental Analysis in Transportation
- AFF30 - Concrete bridges
- AFS60 - Subsurface Drainage
- AFS70 – Geosynthetics
- AHD60 - Maintenance Equipment
- AL040 - Emerging Technology Law
- AP020 - Emerging and Innovative Public Transport and Technologies
- AP025 - Public Transportation Planning and Development
- AP045 - Passenger Intermodal Facilities
- AP065 - Rail Transit Systems
- AR030 - Railroad Operating Technologies
- AT020 - International Trade and Transportation
- B0024 - Research and Technology Coordinating Committee (FHWA)
- B0156 - Review of Federal Highway Administration Infrastructure R&D
- B0160 - Study on Performance of Bridges
- B0164 - Update of National Naval Responsibility for Naval Engineering
- DA11081602 - Critical Issues in the Airport Industry: Workshop #2--Economic and Social Sustainability
- E1008 - Rail Safety IDEA Program
- X0014 - AASHTO Special Committee on Research & Innovation

Panels

- D08106 - Getting Innovations in Metropolitan Freight Implemented
- D20108 - Effective Practices for Creating and Maintaining an Innovation-Delivery Culture
- D2030 - IDEA (Innovations Deserving Exploratory Analysis)
- D2557 - Innovative Mitigation Strategies for Highway Noise
- TJ04 - Transit-innovations Deserving Exploratory Analysis (IDEA)

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.)
TRB Conference on Planning Applications  
*June 21-24, 2021  
Online*

Automated Road Transportation Symposium 2021  
*July 12-15, 2021  
Online*

International Symposium on Frontiers of Road and Airport Engineering*  
*July 12-14, 2021  
Online*

GeoChina 2021 International Conference*  
*September 18-19, 2021  
NanChang, Jiangxi, China*

International Workshop on Structural Health Monitoring*  
*August 31 - September 2, 2021  
Stanford, CA*

Innovations in Freight Data  
*September 21-23, 2021  
Online*

12th International Conference on Concrete Pavements*  
*September 27 - October 1, 2021  
Online*

Accelerated Bridge Construction Conference*  
*December 8-10, 2021  
Online*

Conference on Sustainability and Emerging Transportation Technology  
*March 15-18, 2022  
Irvine, CA*

18th Biennial National Harbor Safety Committee Conference  
*June 13-15, 2022  
Boston, MA*

11th International Conference on the Bearing Capacity of Roads, Railways, and Airfields*  
*June 28-30, 2022  
Trondheim, Norway*

Bridge Engineering Institute Conference*  
*Summer 2023  
Singapore*

Webinars – View upcoming webinars, suggest a webinar or add registration information

Past Webinars
- Using Artificial Intelligence to Predict Deterioration of Highway Bridges – February 22, 2021
- Centering Seams – Maintaining Centerline Joints in Asphalt Pavements – February 17, 2021
- Tools of the Future - Printing Cement-Based Materials in 3D – November 17, 2020
- Advancing Innovative Automated Vehicles and Shared Mobility Research – November 9, 2020
- Enter the Portal-The Transportation Performance Management (TPM) Portal – August 12, 2020
- Attracting the Future Construction Workforce – Case Studies – May 12, 2020
- Greener in Two Ways – Innovative Sustainability Solutions for Airports – March 2, 2020

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)