

**TRB** TRANSPORTATION RESEARCH BOARD

## TRB Snap Search: Data

### TRB's involvement in research on Data from 2021-2022

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 Data within the past year.

### Subject Webpage

- [Data Research at TRB](#)

### 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 229](#) - Airport Collaborative Decision Making (ACDM) to Manage Adverse Conditions
- [National Cooperative Highway Research Program \(NCHRP\)](#)
  - [NCHRP 20-07/Task 368](#) - Development of a Roadmap for Use of SHRP2 Safety Data to Enhance Existing Publications
  - [NCHRP 20-50\(22\)](#) - LTPP Data Analysis: Feasibility of Using LTPP Data to Improve Use of FWD and Longitudinal Profile Measurements
  - [NCHRP 20-113F](#) - Topical White Papers for the TRB Forum on Automated Vehicles and Shared Mobility
  - [Report 975](#) - Transportation System Resilience: Research Roadmap and White Papers
  - [Report 974](#) - Application of Crash Modification Factors for Access Management, Volume 2: Research Overview
  - [Report 964](#) - Protocols for Network-Level Macrotexture Measurement
  - [Report 956](#) - Guidebook for Data and Information Systems for Transportation Asset Management
  - [Synthesis 561](#) - Use of Vehicle Probe and Cellular GPS Data by State Departments of Transportation
  - [Synthesis 560](#) - Practices for Construction-Ready Digital Terrain Models
  - [Web-Only Document 302](#) - Development of a Comprehensive Approach for Serious Traffic Crash Injury Measurement and Reporting Systems
  - [Web-Only Document 299](#) - Investigating the Relationship of As-Constructed Asphalt Pavement Air Voids to Pavement Performance
  - [Web-Only Document 297](#) - Intersection Crash Prediction Methods for the Highway Safety Manual
  - [Web-Only Document 296](#) - Guidelines for Cost-Effective Safety Treatments of Roadside Ditches
- [Transit Cooperative Research Program \(TCRP\)](#)
  - [IDEA Report 93](#) - An Open Platform for Transit Agencies to Improve the Quality of Their Real-Time Data

- [Report 229](#) - Assessing and Mitigating Electrical Fires on Transit Vehicles
- [Synthesis 153](#) - The Transit Analyst Toolbox: Analysis and Approaches for Reporting, Communicating, and Examining Transit Data
- [Transportation Research Circulars](#)
  - [E-Circular 269](#) - 2020 Commodity Flow Survey Workshop

## Current & Upcoming Projects

- [Current Projects](#)
  - [ACRP 01-39](#) - Creative Marketing Techniques to Improve Revenue Generation Partnerships
  - [ACRP 01-41](#) - Airport Blockchain Implementation Guidebook
  - [ACRP 01-43](#) - Conducting Consumer Research of Air Passengers
  - [ACRP 01-46](#) - A Guide for Geospatial Data Governance Policies and Procedures
  - [ACRP 02-89](#) - Industry Survey--Benefits and Costs for Airport Noise And Operations Monitoring Systems
  - [ACRP 03-57](#) - A Guidebook to Prepare Airports for Transformations in Wireless Connectivity
  - [ACRP 03-56](#) - Airside Planning, Design, Construction, Operations, and Maintenance: WebResource
  - [ACRP 03-61](#) - Implementing and Improving Data Analytics Capabilities at Airports
  - [ACRP 03-62](#) - A Toolkit for Establishing Airport Catchment Areas
  - [ACRP 04-27](#) - Alternative Methods to Manage Tree Growth Near Airports
  - [ACRP 09-21](#) - Asset Information Handover Guidelines: From Planning and Construction to O&M
  - [ACRP 10-32](#) - U.S. Airport Industry Adoption of Automated Ground Vehicle Systems
  - [ACRP Synthesis 11-03/Topic S09-09](#) - Automated Pavement Condition Survey Practices at Airports
  - [BTSCRPT BTS-04](#) - Tracking State Traffic Citation and Adjudication Outcomes
  - [BTSCRPT BTS-08](#) - Use of SHRP2 Naturalistic Driving Study Database to Improve Teen Driving Safety: Phase 1 Proof of Concept
  - [BTSCRPT BTS-09](#) - Influence of Infrastructure Design on Distracted Driving
  - [NCHRP 01-60](#) - Measuring the Characteristics of Pavement Surface Images and Developing Standard Practices for Calibration, Certification, and Verification of Imaging Systems
  - [NCHRP 03-129](#) - Essential Communications: A Guide to Land Mobile Radio
  - [NCHRP 03-134](#) - Determination of Encroachment Conditions in Work Zones
  - [NCHRP 03-138](#) - Application of Big Data Approaches for Traffic Incident Management (TIM)
  - [NCHRP 08-119](#) - Developing Data Standards and Guidance for Transportation Planning and Traffic Operations - Phase 1
  - [NCHRP 08-123](#) - Census Transportation Data Field Guide for Transportation Applications
  - [NCHRP 08-124](#) - Quantifying the Impacts of Corridor Management
  - [NCHRP 08-145](#) - Utilizing Cooperative Automated Transportation (CAT) Data to Enhance the Use of Freeway Operational Strategies
  - [NCHRP 10-106](#) - Update of AASHTO Standard Practice for Certification of Inertial Profiling Systems (R 56)
  - [NCHRP 10-110](#) - 3D Modeling Guide for Construction Inspection
  - [NCHRP 12-122](#) - Proposed AASHTO Guidelines for Applications of Unmanned Aerial Systems Technologies for Element-Level Bridge Inspection
  - [NCHRP 17-43](#) - Long-Term Roadside Crash Data Collection Program
  - [NCHRP 17-85](#) - Development and Application of Crash Severity Models for the Highway Safety Manual
  - [NCHRP 17-86](#) - Estimating Effectiveness of Safety Treatments in the Absence of Crash Data
  - [NCHRP 17-87](#) - Enhancing Pedestrian Volume Estimation and Developing HCM Pedestrian Methodologies for Safe and Sustainable Communities
  - [NCHRP 17-88](#) - Roadside Encroachment Data for All Vehicle Types Across a Range of Traffic Volumes
  - [NCHRP 17-93](#) - Updating Safety Performance Functions for Data-Driven Safety Analysis
  - [NCHRP 19-18](#) - Transitioning Fuel Tax Assessments to a Road Usage Charge
  - [NCHRP 20-44\(12\)](#) - Building Capacity for Self-Assessment of Data Effectiveness for Agency Business Needs
  - [NCHRP 20-44\(39\)](#) - Consultant Support for Implementation of Guidebook for Managing Data from Emerging Technologies
  - [NCHRP 20-50\(20\)](#) - LTPP Data Analysis: Develop Tools to Improve Accuracy of Traffic Loading Data Collection
  - [NCHRP 20-126\(03\)](#) - Advancing Practices of In Situ Nondestructive Evaluation of Highway System Asset Foundational Condition and Capability
  - [NCHRP 20-121](#) - State DOT Contributions to the Study, Investigation, and Interdiction of Human Trafficking
  - [NCHRP 22-33](#) - Multi-State In-Service Performance Evaluations of Roadside Safety Hardware
  - [NCHRP 22-42](#) - Impact Performance Assessment of Barrier Performance at High Speeds
  - [NCHRP 22-44](#) - A Transportation Agency Data Collection Practice for Use with In-Service Performance Evaluations (ISPEs)
  - [NCHRP 22-46](#) - Human Factors Guidelines for Road Systems, Proposed 4th Edition

- [NCHRP 22-47](#) - Incorporating Driver Behavior and Characteristics into Safety Prediction Methods
- [NCHRP 23-02](#) - Guidelines on Collaboration and Information Security for State DOTs
- [NCHRP 23-16](#) - Implementing and Leveraging Machine Learning at State Departments of Transportation
- [NCHRP IDEA 20-30/IDEA 209](#) - An Automated System for Pedestrian Facility Data Collection from Aerial Images
- [NCHRP IDEA 20-30/IDEA 214](#) - An Enhanced Network-Level Curve Safety Assessment and Monitoring Using Mobile Devices
- [NCHRP IDEA 20-30/IDEA 216](#) - The Portable Single Lane Traffic Counting Device
- [NCHRP IDEA 20-30/IDEA 217](#) - A Real-Time Proactive Intersection Safety Monitoring and Visualization System Based on Radar Sensor Data
- [NCHRP IDEA 20-30/IDEA 222](#) - Mixed Reality Assisted Infrastructure Inspections
- [NCHRP IDEA 20-30/IDEA 225](#) - An Automated System for Large-Scale Intersection Marking Data Collection and Condition Assessment
- [NCHRP IDEA 20-30/IDEA 230](#) - Automated Data and Feature Extraction from Bridge Plan
- [NCHRP Synthesis 20-05/Topic 52-05](#) - Implementation of Subsurface Utility Engineering for Highway Design and Construction
- [NCHRP Synthesis 20-05/Topic 52-07](#) - Use of Pavement Data Collection Technology for Pavement Data Quality Management and MAP-21 Reporting
- [NCHRP Synthesis 20-05/Topic 52-14](#) - Models as Construction Contract Documents
- [NCHRP Synthesis 20-05/Topic 52-19](#) - Technological Capabilities of DOTs for Digital Project Management and Delivery
- [TCRP G-18](#) - Improving Access and Management of Transit ITS Data
- [TCRP J-05/Topic 19-03](#) - Navigating the Complexities of Sensitive Security Information (SSI) and Protected Critical Infrastructure Information (PCII)
- [Upcoming Projects](#)
  - [ACRP 01-50](#) - Guidance for Improved Data Privacy Management for Airports
  - [ACRP 02-99](#) - Use of Equity and Environmental Justice Data to Support Airport Decision Making
  - [BTSCRPT BTS-14](#) - Informing the Selection of Countermeasures by Evaluating, Analyzing, and Diagnosing Contributing Factors that Lead to Crashes
  - [BTSCRPT BTS-20](#) - Underreporting of Impaired and Distracted Driving Behaviors in Motor Vehicle Crashes
  - [BTSCRPT BTS-23](#) - The Impacts of Experience on Teen Driving: Evidence from the Naturalistic Driving Study
  - [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 07-32](#) - Future-Proofing Automatic Traffic Signal Performance Measurement Systems for Scalability, Transferability, and CAV Integration
  - [NCHRP 08-157](#) - Best Practices for Data Fusion of Probe and Point Detector Data
  - [NCHRP 15-81](#) - Guideline for Depicting Existing and Proposed Utility Facilities in Design Plans
  - [NCHRP 17-100](#) - Leveraging Big Data and Artificial Intelligence to Streamline Safety Data Analyses
  - [NCHRP 17-107](#) - Work Zone Intrusion Frequency and Characteristics
  - [NCHRP 20-07/Task 354](#) - Work Zone Speed Limits and Crash Data Practices
  - [NCHRP 20-24\(119\)](#) - Strategic Research in Support of the Connected and Automated Vehicle Executive Leadership Team
  - [NCHRP 20-24\(132\)](#) - Understanding Knowledge Management in Context with Other Organizational Practices
  - [NCHRP 20-50\(22\)A](#) - LTPP Data Analysis: Guidelines to Improve Use of FWD and Longitudinal Profile Measurements
  - [NCHRP 20-102\(17\)](#) - Deployment Guidance for CV Applications in the Open Source Application Development Portal
  - [NCHRP 22-42](#) - Impact Performance Assessment of Barrier Performance at High Speeds
  - [NCHRP 23-23](#) - Data Governance Design and Implementation - Links Between Governance Approaches and Performance Effects in DOTs
  - [NCHRP 23-25](#) - Interstate Information Sharing of State Truck Regulatory Requirements
  - [NCHRP 23-27](#) - Strategies to Strengthen Data-Driven Decision Making
  - [NCHRP Synthesis 20-05/Topic 53-14](#) - Use of Probe Data for Freight Planning and Operations
  - [TCRP Synthesis J-07/Topic SH-23](#) - Partnerships for Equitable Pandemic Response and Recovery

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

- [Data Analytics and What It Means to the Materials Community](#)
- [Building Data Capacity for Patient-Centered Outcomes Research - Interim Report Two - Data Standards, Methods, and Policy](#)
- [Building Data Capacity for Patient-Centered Outcomes Research - Interim Report One - Looking Ahead at Data Needs](#)

- [Energizing Data-Driven Operations at the Tactical Edge](#)
- [Motivating Local Climate Adaptation and Strengthening Resilience-Making Local Data Trusted, Useful, and Used](#)
- [Empowering the Defense Acquisition Workforce to Improve Mission Outcomes Using Data Science](#)
- [Data in Motion: New Approaches to Advancing Scientific, Engineering and Medical Progress](#)
- [A Satellite Account to Measure the Retail Transformation - Organizational, Conceptual, and Data Foundations](#)

## Committees & Panels

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

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

- [ACH40](#) - Human Factors of Infrastructure Design and Operations
- [ACP70](#) - Highway Traffic Monitoring
- [ACP80](#) - Traffic Simulation
- [ACS20](#) - Safety Performance Analysis
- [AED10](#) - Statewide/National Transportation Data and Information Systems
- [AED20](#) - Urban Transportation Data and Information Systems
- [AED30](#) - Information Systems and Technology
- [AED40](#) - Geographic Information Science
- [AED50](#) - Artificial Intelligence and Advanced Computing Applications
- [AED60](#) - Statistical Methods
- [AED70](#) - Freight Transportation Data
- [AED80](#) - Visualization in Transportation
- [AEP50](#) - Transportation Demand Forecasting
- [AKD70](#) - Geospatial Data Acquisition Technologies
- [AME80](#) - Community Resources and Impacts
- [AP090](#) - Transit Data
- [B0147](#) - Bridge Data Analysis Working Group
- [B0154](#) - Review Evidentiary Protection for Public Transportation Safety Program Information

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

### CRP Panels

- [Project Panels Related to Data](#)

### 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.*)

### [Transportation Infrastructure Innovations for Durability and Resilience \(TriDurLE 2021\)\\*](#)

December 6, 2021

Online

### [TRB Virtual Careers in Motion Networking Fair](#)

December 8, 2021

Washington, DC

### [Accelerated Bridge Construction Conference\\*](#)

December 8, 2021

online

### [Conference on Sustainability and Emerging Transportation Technology](#)

March 15, 2022

Irvine, CA

### [International Data Science for Pavements Symposium\\*](#)

March 22, 2022

Mclean, VA

**18th Biennial National Harbor Safety Committee Conference**

*June 13, 2022*

**Boston, MA**

**Geospatial Data Acquisition Technologies in Design and Construction Summer Committee Meeting**

*July 1, 2022*

**Austin, TX**

**International Conference of International Society for Intelligent Construction\***

*September 6, 2022*

**Guimaraes, Portugal**

**National Aviation System Planning Symposium**

*May 1, 2023*

**Irvine, California**

**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)