TRB’s involvement in research on Data from 2019-2020

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 Data within the past year.

Subject Webpage

- Data Research at TRB

Recent Reports & Publications

- Airport Cooperative Research Program (ACRP)
  - Report 203 - Guidelines for Collecting, Applying, and Maintaining Pavement Condition Data at Airports
  - Report 194 - Using Disaggregated Socioeconomic Data in Air Passenger Demand Studies
  - Synthesis 95 - Airport Incident Reporting Practices

- Conference Proceedings
  - Proceedings on the Web 25 - Proceedings of the 12th National Conference on Transportation Asset Management

- National Cooperative Freight Research Program (NCFRP)
  - Webpage - Understanding and Using New Data Sources to Address Urban and Metropolitan Freight Challenges

- National Cooperative Highway Research Program (NCHRP)
  - IDEA Report 202 - Vertical Electrical Impedance Scanner for Concrete Bridge Deck Assessment without Direct Rebar Attachment
  - IDEA Report 193 - Turning Movement Counts on Shared Lanes: Prototype Development and Analysis Procedures
  - IDEA Report 191 - Testing of In-Service Bridges Using Automated Ultrasonic Testing Methods
  - Report 920 - Management and Use of Data for Transportation Performance Management: Guide for Practitioners
  - Report 909 - Guide to Truck Activity Data for Emissions Modeling
  - Report 904 - Leveraging Big Data to Improve Traffic Incident Management
  - Report 902 - Benchmarking and Comparative Measurement for Effective Performance Management by Transportation Agencies
  - Report 889 - Performance Measures in Snow and Ice Control Operations
  - Synthesis 542 - Prioritization of Freight Investment Projects
  - Synthesis 541 - Practices on Acquiring Proprietary Data for Transportation Applications
  - Synthesis 531 - Automated Pavement Condition Surveys
  - Synthesis 528 - Analyzing Data for Measuring Transportation Performance by State DOTs and MPOs
  - Web-Only Document 259 - Guidelines to Improve the Quality of Element-Level Bridge Inspection Data

- Policy Studies
  - Letter Report - Long-Term Infrastructure Program - January 30, 2019

- Transit Cooperative Research Program (TCRP)
**Synthesis 139** - Transit Service Evaluation Standards
**Synthesis 138** - Public Transit Rider Origin–Destination Survey Methods and Technologies

**Transportation Research Circulars**
- E-Circular 255 - Innovations in Freight Data Workshop
- E-Circular 245 - Transportation Oral History: State of the Practice and a Path Forward
- E-Circular 243 - SHRP 2 Safety Data Student Paper Competition 2017-2019
- E-Circular 242 - A Literature Review of Rail Trespassing and Suicide Prevention Research

**Current & Upcoming Projects**

**Current Projects**
- ACRP 01-39 - Creative Marketing Techniques to Improve Revenue Generation Partnerships
- ACRP 01-43 - Conducting Consumer Research of Air Passengers
- ACRP 02-84 - High Resolution Spatiotemporal Population Distribution Data and Modeling for Aviation Noise Research Studies
- ACRP 03-45 - Collecting and Sharing of Operational and Safety Data
- ACRP 10-27 - Using Collaborative Decision Making to Enhance the Management of Adverse Conditions, IROPS, and Crises
- ACRP Synthesis 11-03/Topic S01-19 - Data Acquisition and Protocols for Risk Management
- ACRP Synthesis 11-03/Topic S04-22 - Airport Surface Weather Observation Options for General Aviation Airports
- BTSCRP BTS-04 - Tracking State Traffic Citation and Adjudication Outcomes
- BTSCRP BTS-08 - Use of SHRP2 Naturalistic Driving Study Database to Improve Teen Driving Safety: Phase 1 Proof of Concept
- NCHRP 01-57A - Developing Standard Definitions for Comparable Pavement Cracking Data
- 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 08-115 - Framework for Designing and Managing Data and Information Workflows for Transportation Assets
- NCHRP 08-116 - Framework for CV Pilot and Smart Cities Data Analytics for Policy Guidance
- NCHRP 08-119 - Developing Data Standards and Guidance for Transportation Planning and Traffic Operations - Phase 1
- NCHRP 08-124 - Quantifying the Impacts of Corridor Management
- NCHRP 10-100 - Procedures and Guidelines for Validating Contractor Test Data
- NCHRP 17-43 - Long-Term Roadside Crash Data Collection Program
- 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 20-44(11) - Advancing practices for data governance, information management, and managing the impact of digitization on DOT workforces
- NCHRP 20-50(18) - LTPP Data Analysis: Significance of As-Constructed Asphalt Pavement Air Voids to Pavement Performance
- NCHRP 20-50(20) - LTPP Data Analysis: Develop Tools to Improve Accuracy of Traffic Loading Data Collection
- NCHRP 20-110 - A Guide to Ensure Access to the Publications and Data of Federally Funded Transportation-Related Research
- NCHRP 20-121 - State DOT Contributions to the Study, Investigation, and Interdiction of Human Trafficking
- NCHRP 25-25/Task 114 - Integrating Tribal Knowledge into Processes to Identify, Evaluate, and Record Cultural Resources
- 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 Synthesis 20-05/Topic 50-03 - Use of Weigh-in-Motion Data for Improving Pavement, Bridge, Weight Enforcement, and Freight Logistics Practices
- NCHRP Synthesis 20-05/Topic 50-06 - Advances in Unstable Slope Instrumentation and Monitoring
• **Upcoming Projects**
  - ACRP 01-46 - Geospatial Data Governance—Organizational Factors and Best Practices
  - ACRP 02-89 - Industry Survey—Benefits and Costs for Airport Noise And Operations Monitoring Systems
  - ACRP 11-01/Topic 12-01 - Legal Implications of Data Collection at Airports
  - ACRP 11-03/Topic 50-09 - Automated Pavement Condition Survey Practices at Airports
  - BTS/CRP BTS-14 - Understanding and Analyzing Crash Contributing Factors
  - NCHRP 03-138 - Experimental Implementation of Big Data Analytics for Traffic Incident Management
  - NCHRP 10-106 - Update of AASHTO Standard Practice for Certification of Inertial Profiling Systems (R 56)
  - NCHRP 20-07/Task 354 - Work Zone Speed Limits and Crash Data Practices
  - NCHRP 20-07/Task 368 - Development of a Roadmap for Use of SHRP2 Safety Data to Enhance Existing Publications
  - NCHRP 20-24(119) - Strategic Research in Support of the Connected and Automated Vehicle Executive Leadership Team
  - NCHRP 20-50(22) - LTPP Data Analysis: Feasibility of Using LTPP Data to Improve Use of FWD and Longitudinal Profile Measurements
  - NCHRP 20-102(13) - Planning Data Needs and Collection Techniques for CV/AV Applications
  - NCHRP 20-102(14) - Data Management Strategies for CV/AV Applications for Operations
  - NCHRP 20-102(17) - Deployment Guidance for CV Applications in the Open Source Application Development Portal
  - NCHRP 20-102(18) - Minimum Safety Data Needed for Automated Vehicle Operations and Crash Analysis
  - NCHRP 20-113F - Topical White Papers for the TRB Forum on Automated Vehicles and Shared Mobility
  - 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 - Supporting Data-Driven Decision Making through an Expansion of the Human Factors Guidelines for Road Systems
  - NCHRP 22-47 - Incorporating Driver Behavior Considerations in Safety Performance Estimates of Infrastructure Improvements
  - NCHRP 23-02 - Secure Information Environments for Collaboration and Knowledge Sharing: Guidance for State DOTs
  - TCRP G-18 - Improving Access and Management of Transit ITS Data

**Reports from the National Academies Press on Data**
  - Assuring Data Quality at U.S. Geological Survey Laboratories
  - Improving Data Collection and Measurement of Complex Farms
  - Opportunities from the Integration of Simulation Science and Data Science

**Committees & Panels**

**Sign-up to be a committee "Friend"**

**TRB Standing Committees** – Search by transportation mode and committee topic
  - **ABG40** - Library and Information Science for Transportation
Task Forces - Search for task force under committee here

- ABJ00 - Data and Information Systems
- ABJ10 - National Transportation Data Requirements and Programs
- ABJ20 - Statewide Transportation Data and Information Systems
- ABJ30 - Urban Transportation Data and Information Systems
- ABJ35 - Highway Traffic Monitoring
- ABJ50 - Information Systems and Technology
- ABJ60 - Geographic Information Science and Applications
- ABJ65T - Innovations in Freight Data Workshop
- ABJ90 - Freight Transportation Data
- ADB40 - Transportation Demand Forecasting
- AFB80 - Geospatial Data Acquisition Technologies
- ANB20 - Safety Data, Analysis and Evaluation
- ABJ32T - Using Census for Transportation Conference
- ABJ45T - Understanding New Directions for the National Household Travel Survey
- ABJ55T - Data Privacy, Security and Protection Policy
- ABJ92T - Understanding Big Data in Freight Transportation

CRP Panels

- Project Panels Related to Data

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.)

Commodity Flow Workshop
April 2, 2020
Washington, D.C.

Transport Research Arena 2020*
April 27, 2020
Helsinki, Finland

2nd International Conference on Nanotechnology of Cement and Concrete (2NCC20)
May 20, 2020
Irvine, California

International Conference on Advances in Materials and Pavement Performance Prediction (AM3P)*
May 27, 2020
San Antonio, Texas

Geospatial Data Acquisition Technologies in Design and Construction
July 1, 2020
Austin, Texas

ITS World Congress 2020*
October 4, 2020
Los Angeles, California

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

Data

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

**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

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

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

Contact the Library at TRBLibrary@nas.edu or l (202) 334-2989