

TRB Snap Search: Information and Knowledge Management

TRB's involvement in research on Information and Knowledge Management from 2020-2025

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 on Data/Information Management and Knowledge Management within the past year.

Specialty Reports

- [An Assessment of Data, Tools, and Metrics for Equity in Decisions About Surface Transportation Investments](#)
- [Critical Issues in Transportation for 2024 and Beyond](#)
- [COVID-19 Addendum to Critical Issues in Transportation](#)
- [Racial Equity Addendum to Critical Issues in Transportation](#)

Milestone Reports

- [Management and Use of Data for Transportation Performance Management: Guide for Practitioners \(2019\)](#)
- [The Transportation Research Thesaurus: Capabilities and Enhancements \(2018\)](#)
- [Data Management and Governance Practices \(2017\)](#)
- [Improving Findability and Relevance of Transportation Information: Volume I—A Guide for State Transportation Agencies, and Volume II—Background Research \(2017\)](#)
- [Data Visualization Methods for Transportation Agencies \(2017\)](#)
- [Keeping What You Paid For—Retaining Essential Consultant-Developed Knowledge Within DOTs \(2017\)](#)
- [Developing the Guide to Retaining Essential Consultant-Developed Knowledge Within DOTs \(2017\)](#)
- [Leadership Guide for Strategic Information Management for State Departments of Transportation \(2016\)](#)
- [NCHRP Impacts on Practice: Knowledge and Information - Critical DOT Assets \(2016\)](#)
- [Literature Searches and Literature Reviews for Transportation Research Projects. How to Search, Where to Search, and How to Put It All Together: Current Practices \(2015\)](#)
- [A Guide to Agency-Wide Knowledge Management for State Departments of Transportation \(2015\)](#)
- [Improving Management of Transportation Information \(2015\)](#)
- [Advances in Transportation Agency Knowledge Management \(2014\)](#)

Consensus Study Reports

- [Toward a 21st Century National Data Infrastructure: Managing Privacy and Confidentiality Risks with Blended Data](#)
- [Toward a 21st Century National Data Infrastructure: Mobilizing Information for the Common Good](#)
- [Toward a 21st Century National Data Infrastructure: Enhancing Survey Programs by Using Multiple Data Sources](#)

Recent Reports & Publications

- [Airport Cooperative Research Program \(ACRP\)](#)
 - [Report 264](#) - Asset Information Handover Guidelines from Planning and Construction to Operations and Maintenance
 - [Report 258](#) – The Evolution of Knowledge Management at Airports
 - [Report 222](#)- Collecting and Sharing of Operations and Safety Data
 - [Synthesis 132](#): Airport Landside Data: Collection and Application
 - [WebResource 18](#) - Implementing and Improving Data Analytic Capabilities in Airports
- [Behavioral Traffic Safety Cooperative Research Program \(BTSCRCP\)](#)
 - [Research Report 5](#) - Strategies to Improve State Traffic Citation and Adjudication Outcomes
- [National Cooperative Highway Research Program \(NCHRP\)](#)
 - [Report 1127](#) - Data Fusion of Probe and Point Sensor Data: A Guide
 - [Report 1080](#) - Using Cooperative Automated Transportation Data for Freeway Operational Strategies
 - [Report 956](#) - Guidebook for Data and Information Systems for Transportation Asset Management
 - [Report 952](#) - Guidebook for Managing Data from Emerging Technologies for Transportation
 - [Report 947](#) - Implementing Information Findability Improvements in State Transportation Agencies
 - [Report 936](#) - Guide to Ensuring Access to the Publications and Data of Federally Funded Transportation Research
 - [Synthesis 628](#) – Ancillary Asset Data Stewardship and Models
 - [Synthesis 600](#) - Practices for the Collection, Use, and Management of Utility As-Built Information
 - [Synthesis 588](#) - Availability and Use of Pedestrian Infrastructure Data to Support Active Transportation Planning
 - [Web-Only Document 419](#) – Implementing Data Governance at Transportation Agencies: Volume 1: Implementation Guide
 - [Web-Only Document 419](#) - Implementing Data Governance at Transportation Agencies: Volume 2: Communications Guide
 - [Web-Only Document 407](#) - Data Collection Practices for Use with In-Service Performance Evaluations
 - [Web-Only Document 282](#) - Framework for Managing Data from Emerging Transportation Technologies to Support Decision-Making
 - [Web-Only Document 279](#) - Information Findability Implementation Pilots at State Transportation Agencies
- [Transit Cooperative Research Program \(TCRP\)](#)
 - [Report 235](#) - Improving Access and Management of Public Transit ITS Data
 - [Report 213](#) - Data Sharing Guidance for Public Transit Agencies – Now and in the Future
 - [Report 210](#) - Development of Transactional Data Specifications for Demand-Responsive Transportation
 - [Synthesis 153](#)- The Transit Analyst Toolbox: Analysis and Approaches for Reporting, Communicating, and Examining Transit Data
- [Transportation Research Circulars](#)
 - [Circular E-C288](#)- Innovations in Freight Data: 2023 Workshop

Current & Upcoming Projects

- [Current Projects](#)
- [ACRP 11-11/Task 01](#) - Knowledge Transfer of Lessons Learned From ACRP Product Implementation
- [NCHRP 08-119](#) - Data Integration, Sharing, and Management for Transportation Planning and Traffic Operations
- [NCHRP 08-123](#) - Census Transportation Data Field Guide for Transportation Applications
- [NCHRP 15-81](#) - Guideline for Depicting Existing and Proposed Utility Facilities in Design Plans
- [NCHRP 23-14](#) - Research Roadmap for Knowledge Management
- [NCHRP 23-17](#) - Assessing and Measuring the Business Value of Knowledge Management
- [NCHRP 20-24\(132\)](#)- Understanding Knowledge Management in Context with Other Organizational Practices
- [NCHRP 23-23](#) - Data Governance Design and Implementation — Links Between Governance Approaches and Performance Effects in DOTs
- [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 SA-57](#) - Statewide Approaches to the Development of Comprehensive Transit Information Systems
- [NCHRP 07-31](#) - State DOT and Tribal Use of Active Transportation Data: Practices, Sources, Needs, and Gaps
- [NCHRP 20-30](#) - Strategies to Improve Application of Research Results in the Research Life Cycle

- [NCHRP 20-44\(45\)](#) - Supporting State DOT Adoption of Knowledge Management Practices
- [NCHRP 20-44\(48\)](#) - Peer Exchanges on Data Management and Governance Practices
- [NCHRP 23-25](#) - Architecture for Information System for Reporting and Sharing Truck Regulatory Requirements Data
- [NCHRP 23-29](#) - Transportation Enterprise Data Warehouse Implementation Guide

- **Upcoming Projects**
- [NCHRP Synthesis 20-05/Topic 55-02](#) - Practices for Collecting, Managing, and Using Light Detection and Ranging (LiDAR) Data
- [NCHRP 20-24](#) - A Framework for Data Exchanges Between Transportation Agencies and Third-Party Mapping Organizations
- [TFPE 09](#) - TRB/FHWA Performance Evaluations: Evaluation of FHWA Highway Safety Information Systems (HSIS)
- [NCHRP23-45](#) - A Knowledge Management Manual for Transportation Agencies
- [NCHRP 23-49](#) - Anticipatory Knowledge Delivery for State DOTs
- [TFPE 08](#) - TRB/FHWA Performance Evaluations: Evaluation of FHWA Highway Safety Information Systems (HSIS)
- [NCHRP 03-151](#) Data Subsystems and Data Management Plans for Traffic Management Systems
- [NCHRP 08-188](#) - Third Party Origin-Destination Data Validation for Travel Demand Models

Reports from the [National Academies Press on Data/Information Management and Knowledge Management](#)

- [Toward a New Era of Data Sharing: Summary of the US-UK Scientific Forum on Researcher Access to Data](#)
- [Toward a 21st National Century Data Infrastructure: Mobilizing Information for the Common Good](#)
- [Data and Management Strategies for Recreational Fisheries with Annual Catch Limits](#)
- [Life-Cycle Decisions for Biomedical Data: The Challenge of Forecasting Costs](#)

Committees & Panels

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

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

- [AED10](#) - Standing Committee on Statewide/National Transportation Data and Information Management
- [AE000](#) - Data, Planning, and Analysis Group
- [AJE45](#) – Standing Committee on Information and Knowledge Management

[Task Forces](#) - Search for *task force* under committee here

CRP Panels

- [DO3151](#) - NCHRP Project Panel on Data Management Plans, Practices, and Data Subsystems for Traffic Management Systems
- [DO8116](#) - Managing Data from Emerging Transportation Technologies to Support Decision-Making

Councils

- [A0040T](#) – Young Member Council

Recent and Upcoming Events

Upcoming Conferences-

[Conference on Data and AI for Transportation Advancement](#)

May 28-29, 2025

Seattle, VA

[TRB's Conference on Innovative Science and Technologies to Improve Security and Safety of the Marine Transportation System](#)

June 23-26, 2025

Washington, DC

Past Conferences and Webinars-

[Data, Metrics, and Analytic Methods for Assessing Equity Impacts of Surface Transportation Investments: Phase 2 Study to Support State and Local Decision Making Meeting #4](#)

May 22-23, 2024

Washington, DC

[TRB Webinar: The Evolution of Knowledge Management at Airports](#)

[TRB Webinar: Using the Research in Progress Database](#)

[TRB Webinar: Improving Data Sharing in Disaster Response with Geospatial Data and AI](#)

TRB's Transportation Research Information Services (TRIS)

TRIS includes the [TRB Library](#) and the [TRIS Databases](#) (listed below) which are available for 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

Snap Searches - Formerly called 'Overview Guides,' Snap Searches provide a succinct summary of activities in TRB on a given topic including: upcoming events such as conferences and webinars; names of Committees working on relevant issues; and a list of recent reports from TRB and The National Academies - www.trb.org/InformationServices/Snap.aspx

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