TRB Snap Search: Transit Innovations

TRB’s involvement in research on Transit Innovations from 2021-2024

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 Transit Innovations within the past two years.

**Specialty Report**
- [Critical Issues in Transportation for 2024 and Beyond](http://www.trb.org/)
- [Critical Issues in Transportation 2019](http://www.trb.org/)
- [COVID-19 Addendum to Critical Issues in Transportation](http://www.trb.org/)
- [Racial Equity Addendum to Critical Issues in Transportation](http://www.trb.org/)

**Recent Reports & Publications**

- [Airport Cooperative Research Program (ACRP)](http://www.trb.org/)
  - Report 241 - Toward a Touchless Airport Journey

- [National Cooperative Highway Research Program (NCHRP)](http://www.trb.org/)
  - NCHRP 20-65/Task 81 - Best Practices in Rural Service Assessment
  - Report 1101 - Transformational Technologies and Mobility Inclusion Playbook
  - Research Results Digest 403 - Program Management Insights for the Section 5310 Program, Including Subrecipient Consolidation and Urban 5310

- [Transit Cooperative Research Program (TCRP)](http://www.trb.org/)
  - IDEA Report 100 - TrainMate Robotic System: Making Public Transportation, Public!
  - IDEA Report 101 - Citopia MaaS/Multimodal Transit
  - IDEA Report 99 - Bike Love
  - IDEA Report 98 - Safety Assessment of the Interaction Between the Autonomous Shuttle Bus and Vulnerable Road Users
  - IDEA Report 97 - Open Platform to Attract, Organize, and Coordinate Volunteers for Rural and Small Urban Transit
  - IDEA Report 95 - Connected and Automated Parking Feasibility – A Pilot Study
  - IDEA Report 91 - Comprehensive Wayfinding for All (CWall)
  - Legal Research Digest 60 - Transit Mega Projects: Legal Issues
  - Legal Research Digest 59 - Legal Issues and Emerging Technologies
  - Report 249 - Bus Operator Barrier Design: Guidelines and Considerations
  - Report 244 - Transformational Technologies and Mobility Inclusion Playbook
  - Report 239 - Provision of Alternative Services by Transit Agencies: The Intersection of Regulation and Program
  - Report 238 - Quantitative Procedures for Designing and Operating Ferry Services
Reports

Recently Completed/Pending Publication

- Report 235 - Improving Access and Management of Public Transit ITS Data
- Report 233 - Strategies for Deterring Trespassing on Rail Transit and Commuter Rail Rights-of-Way, Volume 2: Research Overview
- Report 224 - Guide to Joint Development for Public Transportation Agencies
- Report 219 - Guidebook for Deploying Zero-Emission Transit Buses
- Transit Research Analysis Committee Letter Report: March 14, 2023
- Synthesis 166 - On-Street Bus Operations Management
- Synthesis 154 - Innovative Practices for Transit Planning at Small to Mid-Sized Agencies
- Web-Only Document 73 - Guide to Joint Development for Public Transportation Agencies: Appendices

Recently Completed/Pending Publication

- TCRP J-05/Topic 19-03 - Navigating the Complexities of Sensitive Security Information (SSI) and Protected Critical Infrastructure Information (PCI)

Current & Upcoming Projects

- Current Projects
  - ACRP 03-76 - Improving Airport Customer Experience Through Technology
  - NCHRP 08-130 - Best Practices in Coordination of Public Transit and Ride Sharing
  - NCHRP 08-144 - Rural Transit Fleet Mix and Vehicle Size Decision Trees
  - NCHRP 20-65/Task 79 - Program Management Insights for the 5310 Program (Including Sub-Grantee Consolidation and Urban 5310)
  - NCHRP 20-123 - Support for AASHTO Committees and Councils
  - TCRP B-47 - Impact of Transformational Technologies on Underserved Populations
  - TCRP B-50 - Accessible Public Bus and Rail Passenger Information for Riders with Vision Disabilities
  - TCRP B-53 - Addressing Travel Needs of Women on Public Transportation
  - TCRP D-19 - Detecting and Mitigating Low-Level DC Fault Currents in Transit Systems (Phase II TCRP Project D-17)
  - TCRP D-25 - Track Design Handbook for Light Rail Transit, 3rd Edition

- Upcoming Projects
  - NCHRP 20-06/Topic 27-04 - Managing Performance for Innovative Technology Contracts
  - NCHRP 23-34 - Performance Measures for Community-Centered Transportation Outcomes: A Guide
  - TCRP A-49 - Fare Policies, Structures, and Technologies -- 2024 Updates
  - TCRP A-51 - Innovative Practices for Technology Implementation at Rural, Small, and Mid-Sized Transit Agencies
  - TCRP A-52 - Cyber Vulnerability of Automatic Vehicle Monitoring (AVM) and Health Monitoring Systems (HMS)
  - TCRP B-52 - Intercity Bus: The State Role Updated
  - TCRP B-55 - Guidelines for Surveying Hard-to-Reach Populations for Small, Medium, and Large Transportation Agencies
  - TCRP B-56 - Using Market Segmentation to Increase Transit Ridership: An Updated Handbook
  - TCRP D-25 - Track Design Handbook for Light Rail Transit, 3rd Edition
  - TCRP F-31 - Modernizing Transit Station Staffing Approaches
  - TCRP J-05/Topic 20-02 - Liability Insurance Issues for Transit Lawyers: A Primer
  - TCRP J-11/Task 47 - Affordable Housing and Transit

Reports from the National Academies Press on Transit Innovations

- Rebuilding and Strengthening Ukrainian Science and Innovation in Support of Economic Recovery
- Proceedings of a Workshop—in Brief
- Year in Review 2023 - Roundtable on Obesity Solutions
- Roundtable on Genomics and Precision Health - 2023 Annual Report
- Innovation, Global Value Chains, and Globalization Measurement
- Human-AI Teaming: State-of-the-Art and Research Needs
- Enhancing Federal Clean Energy Innovation
- Learning from Rapid Response, Innovation, and Adaptation to the COVID-19 Crisis
Committees & Panels

Sign-up to be a committee "Friend"

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

- **AIE35** - Research Innovation Implementation Management
- **AIL40** - Emerging Technology Law
- **AMR50** - Extreme Weather and Climate Change Adaptation
- **AP020** - Emerging and Innovative Public Transport and Technologies
- **AP025** - Public Transportation Planning and Development
- **AP045** - Passenger Intermodal Facilities
- **AP065** - Rail Transit Systems

**Policy Studies**

- **B0085** - Transit Research Analysis Committee (TRAC)

**CRP Panels**

- **D2030** - IDEA (Innovations Deserving Exploratory Analysis)
- **E1008** - Rail Safety Innovations Deserving Exploratory Analysis (IDEA)
- **SN5417** - State DOT Innovation Programs and Practices
- **TD21** - Planning for Innovation & Emerging Mobility Futures at Intermodal Passenger Facilities
- **TH62** - Innovations for Equitable Rural Transit Economic Benefit Analyses
- **TI04** - Transit-innovations Deserving Exploratory Analysis (IDEA)

**Councils**

- **A001C** – Young Members Coordinating Council

Recent and Upcoming Events

**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 Webinar: Disruptive Technologies and the Future of the Transportation Agency**
February 26, 2024

**Innovations in Travel Analysis and Planning Conference**
June 4-6, 2023
Indianapolis, IN

**Marine Transportation System Innovative Science and Technologies Toward Greater Sustainability**
June 19-22, 2023
Washington, D.C.

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 - The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation
- **Transportation Research Thesaurus (TRT)** – trt.trb.org - A tool to improve the indexing and retrieval of transportation information.
- **Research in Progress (RiP) Database** – rip.trb.org - Current or recently completed transportation research projects
• **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)