TRB Snap Search: Public Transportation

TRB’s involvement in research on Public Transportation from 2022-2024

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

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 Public Transportation within the past year.

Special Reports

- Critical Issues in Transportation for 2024 and Beyond
- 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)
  - Research Report 239 - Assessing Airport Programs for Travelers with Disabilities and Older Adults
  - Synthesis 130 - Airport-Centric Advanced Air Mobility Market Study
  - Web-Only Document 52 - Command-Level Decision Making for Transportation Emergency Managers
  - Web Resource 14 - Tools to Assess Airport Programs for Travelers with Disabilities and Older Adults

- National Cooperative Highway Research Program (NCHRP)
  - Report 1072 - Telecommuting, Remote Work, and Hybrid Schedules: Managing the Shift to a Flexible Work Future
  - Report 1059 - Access to Jobs, Economic Opportunities, and Education in Rural Areas
  - Report 988 - Rural Transportation Issues: Research Roadmap
  - Research Results Digest 403 - Program Management Insights for the Section 5310 Program, Including Subrecipient Consolidation and Urban 5310
  - Synthesis 597 - Micromobility Policies, Permits, and Practices
  - Web-Only Document 80 - Accessing America’s Great Outdoors: Forecasting Recreational Travel Demand

- Special Reports / Consensus Studies
  - Transportation Insights Issue 2 - Air Quality in Transit Buses
  - Report 337 - The Role of Transit, Shared Modes, and Public Policy in the New Mobility Landscape
  - Transit Research Analysis Committee Letter Report: March 14, 2023

- Transit Cooperative Research Program (TCRP)
  - TCRP C-24 - Transit Traction Power Cables: Replacement Guidelines
  - IDEA Report 101 - Multimodal Transit with Citopia

Updated 1/26/2024
• IDEA Report 100 - TrainMate Robotic System: Making Public Transportation, Public!
• IDEA Report 99 – Bike Love
• IDEA Report 98 - Safety Assessment of the Interaction between the Autonomous Shuttle Bus and Vulnerable Road Users
• IDEA Report 96 - Multi-stage Planning for Electrifying Transit Bus Systems with Multi-format Charging Facilities
• Legal Research Digest 60 - Transit Mega Projects: Legal Issues
• Legal Research Digest 59 - Legal Issues and Emerging Technologies
• Legal Research Digest 58 - Policing and Public Transportation
• Legal Research Digest 56 - Joint Development Agreements Using FTA Funds or FTA-Funded Assets
• Report 241 - Inclusive Virtual Public Involvement for Public Transit
• Report 240 - Bus Operator Workforce Management: Practitioner’s Guide
• 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
• Report 237 - Fare-Free Transit Evaluation Framework
• Report 235 - Improving Access and Management of Public Transit ITS Data
• Report 234 - Measuring and Managing Fare Evasion
• Report 233 - Strategies for Deterring Trespassing on Rail Transit and Commuter Rail Rights-of-Way, Volume 1: Guidebook
• Report 233 - Strategies for Deterring Trespassing on Rail Transit and Commuter Rail Rights-of-Way, Volume 2: Research Overview
• Report 232 - The Impacts of Vehicle Automation on the Public Transportation Workforce
• Synthesis 173 - Transit Exclusion Policies in Public Transportation Systems
• Synthesis 172 - Statewide Approaches to the Development of Comprehensive Transit Information Systems
• Synthesis 171 - Third-Party Contracts for Fixed-Route Bus Operations and Maintenance: Performance Metrics
• Synthesis 170 - Inclusive Public Participation in Transit Decision-Making
• Synthesis 169 - Pedestrian and Bicycle Safety in Bus Rapid Transit and High-Priority Bus Corridors
• Synthesis 168 - Continuous Dynamic Optimization: Impacts on ADA Paratransit Services
• Synthesis 167 - Partnerships for Equitable Pandemic Response and Recovery
• Synthesis 166 - On-Street Bus Operations Management
• Synthesis 165 - Customer Education and Awareness of On-Demand Mobility
• Synthesis 164 - Bus Rapid Transit: Current State of Practice
• Synthesis 163 - Considering the Unbanked in Cashless Fare Payment at Point of Service for Bus/Demand-Response Services
• Synthesis 162 - Coordination of Public Transit Services and Investments with Affordable Housing Policies
• Synthesis 161 - ADA Paratransit and Other Demand-Responsive Transportation Services in Small to Midsized Transit Agencies
• Synthesis 160 - Fare Capping: Balancing Revenue and Equity Impacts
• Synthesis 159 - Assessing Equity and Identifying Impacts Associated with Bus Network Redesigns
• Synthesis 158 - Cybersecurity in Transit Systems
• Web-Only Document 75 - Command-Level Decision Making for Transportation Emergency Managers
• Web-Only Document 74 - Recent Decline in Public Transportation Ridership: Hypotheses, Methodologies, and Detailed City-by-City Results

- Transportation Research Circulars
  • E-Circular 284 – Toward a National Regulatory Framework for Automated Vehicles

Recently Completed/Pending Publication/Posted to Web

• ACRP 11-08(20-02) - ACRP Insight Event--On-Demand Aviation Services for Passengers and Goods
• ACRP 03-52 - Guidelines for Adapting and Managing Airport Common Use Programs
• NCHRP 20-65/Task 82 - Issues Associated with Providing Customized, Client-Based Transportation Services
• NCHRP 20-65/Task 81 - Best Practices in Rural Service Assessment
• NCHRP 20-65/Task 80 - Capacity Building Options for DOT Transit Staff
• NCHRP 20-65/Task 78 - Impact of Decline in Volunteerism on Rural Transit Systems
• NCHRP 08-133 - Implementing the National Intercity Bus Atlas
• TCRP Report 243 - Transportation for People with Disabilities and Older Adults During COVID-19: Lessons for Emergency Response
• TCRP J-11/Task 34 - The Effects of Vehicle Automation on the Public Transportation Workforce
Current & Upcoming Projects

- **Current Projects**
  - ACRP 10-33 - Incorporating Emerging Transportation and Ground Access Technologies at Airports
  - NCHRP 08-144 - Rural Transit Fleet Mix and Vehicle Size Decision Trees
  - NCHRP 08-119 - Data Integration, Sharing, and Management for Transportation Planning and Traffic Operations
  - NCHRP 08-130 - Best Practices in Coordination of Public Transit and Ride Sharing
  - NCHRP 08-133(01) - Implementing the National Intercity Bus Atlas (Phases II and III)
  - NCHRP 08-144 - Rural Transit Fleet Mix and Vehicle Size Decision Trees
  - NCHRP 08-147 - Improving Public Transportation in Rural Areas and Tribal Communities
  - NCHRP 08-172 - Benefit Analysis of Private Health Sector Investments in Non-Emergency Medical Transportation
  - Asset Management and Public Transportation Agency Safety Requirements
  - NCHRP 20-123 - Support for AASHTO Committees and Councils
  - TCRP A-48 - Mitigation Strategies for Deterring Transit Assaults
  - TCRP B-47 - Impact of Transformational Technologies on Underserved Populations
  - TCRP B-49 - Improving Public Transportation in Rural Areas and Tribal Communities
  - 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 C-25 - Bus Operator Barrier Design
  - TCRP D-19 - Detecting and Mitigating Low-Level DC Fault Currents in Transit Systems (Phase II TCRP Project D-17)
  - TCRP F-29 - Mental Health, Wellness, and Resilience for Transit System Workers
  - TCRP F-30 - Guide for Protecting Transportation Employees and the Traveling Public from Airborne Diseases
  - TCRP F-33 - Enriching Transit’s Workforce: Recruiting and Retaining Individuals with Disabilities
  - TCRP G-17 - Assessing Lifecycle and Human Costs of Bus Operator Workstation Design and Components
  - TCRP H-59 - Racial Equity, Black America and Public Transportation
  - TCRP H-60 - Lessons Learned from Covid-19: Strategies to Enhance Racial and Social Equity through Public Transportation as a Community Lifeline
  - TCRP J-05/Topic 18-02 - Codes of Conduct on Transit Vehicles and Property: Legal Issues
  - TCRP J-05/Topic 19-03 - Navigating the Complexities of Sensitive Security Information (SSI) and Protected Critical Infrastructure Information (PCII)
  - TCRP J-11 - Quick-Response Research on Long-Term Strategic Issues
  - TCRP J-11/Task 43 - Analysis of Public Transportation Health Impacts and Benefits
  - TCRP J-11/Task 44 - Improving Access to Public Transportation Services and Facilities with Transit-Oriented Complete Streets
  - TCRP J-11/Task 45 - Future of Commuter Rail in North America
  - TCRP Synthesis J-07/Topic SA-60 - Examination of Transit Agency Coordination with Electric Utilities
  - TCRP Synthesis J-07/Topic SA-62 - Planning and Operations Initiatives to Support Nighttime Off-Peak Transit Ridership
  - TCRP Synthesis J-07/Topic SB-37 - Transit Agency Goals and Non-Traditional Performance Indicators Focused on Equity
  - TCRP Synthesis J-07/Topic SB-38 - Paratransit Fleet Configurations
  - TCRP Synthesis J-07/Topic SB-41 - Microtransit Solutions in Rural Communities: On-Demand Alternatives to Dial-A-Ride Services and Unproductive Coverage Routes
  - TCRP Synthesis J-07/Topic SB-42 - Operational and Service Factors When Integrating/Consolidating ADA Paratransit and On-Demand Services
  - TCRP Synthesis J-07/Topic SD-07 - Red Tinted Bus Lanes Experience
Upcoming Projects
- NCHRP 08-159 - How to Assess and Address Equity of Access to Essential Goods and Services
- NCHRP 08-183 - Resource to Support Volunteer Driver Programs in Rural and Low-Density Areas
- NCHRP 20-06/Topic 27-02 - State and Local Suspension and Debarment Programs of Contractors
- NCHRP 20-06/Topic 27-03 - Environmental and Planning Law and Transportation
- NCHRP 20-06/Topic 27-04 - Managing Performance for Innovative Technology Contracts
- TCRP A-49 - Fare Policies, Structures, and Technologies -- 2024 Updates
- TCRP A-50 - Practical Considerations for Developing Transition Plans to Zero-Emission Fleets
- TCRP A-52 - Cyber Vulnerability of Automatic Vehicle Monitoring (AVM) and Health Monitoring Systems (HMS)
- TCRP B-51 - Floating Transit Stops and Passengers with Vision Disabilities
- TCRP B-52 - Intercity Bus: The State Role Updated
- TCRP B-54 - Paving the Way for Inclusion: Addressing Gaps in Measuring Disability within Transportation Data Systems
- 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-20 - Investigation and Mitigation of Insulated Joint Electrical Failure
- TCRP D-23 - Guidebook for Planning and Constructing a Small and Rural Tribal Transit Facility
- TCRP D-24 - Determination of Actual Derailment Loads on Transit Bridges
- TCRP D-25 - Preparation of a Manuscript for Publication of the Track Design Handbook for Light Rail Transit, 3rd Edition
- TCRP D-26 - Develop a Rational Approach to Performing Rail Structure Interaction Analysis (RSI) and for Using the Results of the Analysis in Transit Bridge Design
- TCRP E-14 - Lithium-Ion Battery Transit Bus Fire Prevention and Risk Management
- TCRP E-15 - Air Quality Inside Buses
- TCRP F-31 - Modernizing Transit Station Staffing Management
- TCRP F-32 - Culture Reform: Psychological Health and Safety at the Workplace – The Missing Elements of Successful Workforce Retention and Recruitment in Transit
- TCRP F-34 - CDL Requirements for Local and Regional Transit Drivers Needs Study
- TCRP J-05/Topic 19-04 - Transit Sponsor and Contractor Delay Damages and Remedies Due to Third Parties - Transit Facility Improvements-Common Legal Issues and Solutions
- TCRP J-05/Topic 21-03 - Liability Insurance Issues for Transit Lawyers: A Primer
- TCRP J-05/Topic 22-03 - Legal Aspects of Transit to Airports
- TCRP J-05/Topic 22-04 - Update of Buy America
- TCRP J-11/Task 47 - Affordable Housing and Transit
- TCRP J-11/Task 48 - Drug Testing Science and Best Practices
- TCRP J-11/Task 49 - New Transit Service Delivery to Drive Ridership Growth
- TCRP J-11/Task 50 - Transit Governance and Funding Models
- TCRP J-11/Task 51 - Enhancing Transit Operations with Artificial Intelligence

Reports from the National Academies Press on Public Transportation
- Transportation and Infrastructure » Public Transportation
- Enhancing Urban Sustainability Infrastructure: Mathematical Approaches for Optimizing Investments: Proceedings of a Workshop
- Equitable and Resilient Infrastructure Investments
- Corrosion of Buried Steel at New and In-Service Infrastructure
- Global Roadmap for Healthy Longevity
Improving the CDC Quarantine Station Network's Response to Emerging Threats
Relocation and Other Climate Adaptations on Florida’s Gulf Coast
Investing in Resilient Infrastructure in the Gulf of Mexico
Service Life Assessment and Predictive Modeling for an Aging Critical Infrastructure
Harnessing the Value of Co-Creating and Stewarding Places for Health, Equity, and Well-Being

Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic
  o ACH30 - Human Factors of Vehicles
  o ACS60 – Truck and Bus Safety
  o AIL10 - General Law
  o AIL20 – Transit and Intermodal Transportation Law
  o AME50 – Accessible Transportation and Mobility
  o AP000 – Public Transportation Group
  o AP010 – Transit Management and Performance
  o AP015 – Transit Capacity and Quality of Service
  o AP020 – Innovative Public Transportation Services and Technologies
  o AP025 – Public Transportation Planning and Development
  o AP030 – Public Transportation Marketing and Fare Policy
  o AP045 – Passenger Intermodal Facilities
  o AP050 – Bus Transit Systems
  o AP055 – Rural, Intercity Bus, and Specialized Transportation
  o AP065 – Urban Rail Transit Systems
  o AP075 – Light Rail Transit
  o AP090 – Transit Data
  o AR050 – Railroad Infrastructure Design and Maintenance
  o AR060 – Rail Transit Infrastructure Design and Maintenance
  o AW050 – Ferry Transportation

Task Forces - Search for task force under committee here

Policy Study
  o B0085 – Transit Research Analysis Committee (TRAC)
  o B0154 – Review Evidentiary Protection for Public Transportation Safety Program Information

CRP Panels – Search for CRP Panel and Synthesis Panel under committee here
  o D08130 - Best Practices in Coordination of Public Transit and Ride Sharing
  o D08144 - Rural Transit Fleet Mix and Vehicle Size Decision Trees
  o D08147 - NCHRP 08-147/TCRP B-49 Improving Public Transportation in Rural Areas and Tribal Communities
  o D1919 - Sustaining Zero-Fare Public Transit in a Post COVID-19 World: A Guide for State DOTs
  o D2065 - Research for the AASHTO Standing Committee on Public Transportation
  o DF33 - Enriching Transit’s Workforce: Recruiting and Retaining Individuals with Disabilities
  o STSA56 - Use of Automatic Vehicle Monitoring (AVM) and Vehicle Health Monitoring/Diagnostic Systems by Transit Agencies
  o STSA57 - Statewide Approaches to the Development of Comprehensive Transit Information Systems
  o STSA58 - Analysis of Transit Exclusion Policies in Passenger Transportation Systems
  o STSA60 - Examination of Transit Agency Coordination with Electric Utilities
  o STSA61 - State of Practice for Transit Recovery in the Aftermath of Severe Weather Events
  o STSA62 - Planning and Operations Initiatives to Support Nighttime Off-Peak Transit Ridership
  o STSB36 - Dynamic Optimization on ADA Paratransit Service
  o STSB37 - Transit Agency Goals and Non-Traditional Performance Indicators Focused on Equity
  o STSB39 - Improving Transit Customer Perception of Personal Security
  o STSB40 - Low-Income Transit Discount Provision at Public Transit Agencies in the United States
  o STSB41 - Microtransit Solutions in Rural Communities: On-Demand Alternatives to Dial-A-Ride Services and Unproductive Coverage Routes
  o STSB42 - Operational and Service Factors When Integrating/Consolidating ADA Paratransit and Microtransit
  o STSH22 - Inclusive Public Participation in Transit Decision Making
  o STSH24 - Impacts of Fentanyl and Substance Use on Transit
  o TA47 - Transit Capacity and Quality of Service Manual, 4th Edition
  o TA48 - Mitigation Strategies for Deterring Transit Assaults
- TA50 - Practical Considerations for Developing Transition Plans to Zero-Emission Fleets
- TA51 - Innovative Practices for Technology Implementation at Rural, Small, and Mid-Sized Transit Agencies
- TB50 - Public Transportation Information Systems for Passengers who are Vision Disabled
- TB51 - Floating Transit Stops and Passengers with Vision Disabilities
- TD19 - 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
- TD23 - Guidebook for Planning and Constructing a Small and Rural Tribal Transit Facility
- TD24 - Determination of Actual Derailment Loads on Transit Bridges
- TD25 - Preparation of a Manuscript for Publication of the Track Design Handbook for Light Rail Transit, 3rd Edition
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- TE14 - Lithium-Ion Battery Transit Bus Fire Prevention and Risk Management
- TF29 - Mental Health, Wellness, and Resilience for Transit System Workers
- TF31 - Modernizing Transit Station Staffing Management
- TF32 - Culture Reform: Psychological Health and Safety at the Workplace – The Missing Elements of Successful Workforce Retention and Recruitment in Transit
- TF34 - CDL Requirements for Local and Regional Transit Drivers Needs Study
- TH59 - Racial Equity, Black America and Public Transportation
- TH60 - Lessons Learned From Covid-19: Strategies to Enhance Racial And Social Equity Through Public Transportation As A Community Lifeline
- TH62 - Innovations for Equitable Rural Transit Economic Benefit Analyses
- TJ04 - Synthesis of Information Related to Transit Problems
- TJ05 - Legal Aspects of Transit and Intermodal Transportation Programs
- TJ07 - Synthesis of Information Related to Transit Problems
- TJ1131 - Application and Monetization of Data Collected by Transit Agencies
- TJ1143 - Analysis of Public Transportation Health Impacts and Benefits
- TJ1144 - Improving Access to Public Transit with Transit-Oriented Streets
- TJ1147 - Affordable Housing and Transit
- TJ1149 - New Transit Service Delivery to Drive Ridership Growth
- TJ1150 - Transit Governance and Funding Models
- TJ1151 - Enhancing Transit Operations with Artificial Intelligence

Councils

- A001C – Young Members Coordinating Council
- A0030C – City Transportation Issues Coordinating Council

Recent and Upcoming Events

Upcoming TRB Conferences – Use left hand menu to filter events

TRB’s 4th International Conference on Access Management
June 24-26, 2024
Boston, MA

TRB’s Workshop on Transportation Law
July 7-10, 2024
Kansas City, MO

TRB’s 2nd Conference on Advancing Transportation Equity
July 15-18, 2024
Baltimore, MD

TRB’s Transportation Symposium on Environment, Energy, and Livable Economies
August 25-28, 2024
Denver, CO

TRB’s International Conference on Women and Gender in Transportation
September 9-11, 2024
Irvine, CA
Upcoming Webinars/Events – In the Upcoming Events tab under Types, choose what event you are interested in, search titles by keyword

**TRB Webinar: Transportation for People with Disabilities and Older Adults in COVID-19**
*January 30, 2024*

**TRB’s Symposium on Managed Lanes**
*August 12-14, 2024*  
*Irvine, CA*

Past Events - In the Past Events tab under Types, choose what event you are interested in, search titles by keyword

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

**National Conference on Transportation Asset Management**
*July 8-11, 2023*  
*Boston, MA*

**TRB’s Transportation Research Information Services (TRIS)**

TRIS includes the [TRB Library](https://library.trb.org) and the [TRIS Databases](https://library.trb.org/tris/) (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)](https://trid.trb.org) - The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation
- [Transportation Research Thesaurus (TRT)](https://trt.trb.org) – A tool to improve the indexing and retrieval of transportation information.
- [Research in Progress (RiP) Database](https://rip.trb.org) – Current or recently completed transportation research projects
- [Publications Index (PubsIndex) Database](https://pubindex.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)