TRB Snap Search: Demand Responsive & Innovative Transportation Services

TRB's involvement in research on Demand Responsive & Innovative Transportation Services 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](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 Demand Responsive & Innovative Transportation Services within the past year.

Specialty Report
- 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)](http://www.trb.org/)
  - Report 249 – Developing an Airport Program to Address Human Trafficking: A Guide
  - Report 241 – Toward a Touchless Airport Journey
  - Report 239 – Assessing Airport Programs for Travelers with Disabilities and Older Adults
  - Synthesis 130 – Airport-Centric Advanced Air Mobility Market Study
  - Transportation Insights 4 – On-Demand Services for Mobility, Logistics, Emergency Response, and Humanitarian Use Cases
  - WebResource 17 – Developing a Holistic Airport Common Use Program

- [Behavioral Traffic Safety Cooperative Research Program (BTSCRP)](http://www.trb.org/)
  - Report 6 – Identifying and Prioritizing Behavioral Interventions to Improve Child Passenger Safety in For-Hire Vehicles

- [National Cooperative Highway Research Program (NCHRP)](http://www.trb.org/)
  - 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
  - Report 1101 - Transformational Technologies and Mobility Inclusion Playbook
  - 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 621 - Truck Emergency Escape Ramp Design and Operation
Web-Only Document 331 – Mobility on Demand and Automated Driving Systems: A Framework for Public-Sector Assessment

Transit Cooperative Research Program (TCRP)
- IDEA Report 101 – Citopia MaaS/Multimodal Transit
- 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 97 - Open Platform to Attract, Organize, and Coordinate Volunteers for Rural and Small Urban Transit
- 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
- Report 244 - Transformational Technologies and Mobility Inclusion Playbook
- Report 243 – Transportation for People with Disabilities and Older Adults During COVID-19: Lessons for Emergency Response
- Report 239 – Provision of Alternative Services by Transit Agencies: The Intersection of Regulation and Program
- Report 238 – Quantitative Procedures for Designing and Operating Ferry Transit Services
- Report 237 – Fare-Free Transit Evaluation Framework
- Report 235 – Improving Access and Management of Public Transit ITS Data
- Report 234 – Strategies for Deterring Trespassing on Rail Transit and Commuter Rail Rights-of-Way, Volume 2: Research Overview
- Report 233 – Recent Decline in Public Transportation Ridership: Analysis, Causes, and Responses
- Report 230 – Transit and Micromobility
- Report 229 – Closing the Knowledge Gap for Transit Maintenance Employees
- Research Results Digest 115 – Use of Agency Service Agreements in ADA Paratransit Delivery
- Synthesis 174 – Paratransit Fleet Configurations
- Synthesis 172 – Statewide Approaches to the Development of Comprehensive Transit Information Systems
- 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 74 – Recent Decline in Public Transportation Ridership: Hypotheses, Methodologies, and Detailed City-by-City Results

Transportation Research E-Circulars
- E-C289 – Taxonomy and Terms for Stakeholders of Older Adult Mobility

Recently Completed Projects/Pending Publication
- NCHRP 20-102(11) – Mobility-on-Demand and Automated Driving Systems: A Framework for Public-Sector Assessment
- NCHRP 20-65/Task 78 – Impact of Decline in Volunteerism on Rural Transit Systems
- TCRP J-05/Topic 19-03 – Navigating the Complexities of Sensitive Security Information (SSI) and Protected Critical Infrastructure Information (PCII)
- TCRP C-24 – Transit Traction Power Cables: Replacement Guidelines

Current & Upcoming Projects
- Current Projects
• **ACRP 03-76** – Improving Airport Customer Experience Through Technology
• **ACRP Synthesis 11-03/Topic S01-29** – Airport Practices for Onboarding a New Passenger Airline
• **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 08-140** – Guide for Truck Parking Information Management Systems
• **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 08-153** – A Guide for the Development and Use of Truck Traffic Forecasts in Design
• **NCHRP 08-144** – Rural Transit Fleet Mix and Vehicle Size Decision Trees
• **NCHRP 08-159** – How to Assess and Address Equity of Access to Essential Goods and Services
• **NCHRP 19-19** – Sustaining Zero-Fare Public Transit in a Post COVID-19 World: A Guide for State DOTs
• **NCHRP 20-123** – Support for AASHTO Committees and Councils
• **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 B-56** – Using Market Segmentation to Increase Transit Ridership: An Updated Handbook
• **TCRP D-21** – Planning for the Future of Intermodal Passenger Facilities: Guide and Decision-Making Framework
• **TCRP I-11/Task 45** - Future of Commuter Rail in North America
• **TCRP I-11/Task 48** - Drug Testing Science and Best Practices
• **TCRP Synthesis I-07/Topic SD-07** – Red Tinted Bus Lanes Experience
• **TCRP Synthesis I-07/Topic SA-56** – Use of Automatic Vehicle Monitoring (AVM) and Vehicle Health Monitoring/Diagnostic Systems by Transit Agencies
• **TCRP Synthesis I-07/Topic SA-60** – Examination of Transit Agency Coordination with Electric Utilities
• **TCRP Synthesis I-07/Topic SA-61** - State of Practice for Transit Recovery in the Aftermath of Severe Weather Events
• **TCRP Synthesis I-07/Topic SA-62** – Planning and Operations 3Initiatives to Support Nighttime Off-Peak Transit Ridership
• **TCRP Synthesis I-07/Topic SB-39** – Improving Transit Customer Perception of Personal Security
• **TCRP Synthesis I-07/Topic SB-41** – Microtransit Solutions in Rural Communities: On-Demand Alternatives to Dial-A-Ride Services and Unproductive Coverage Routes
• **TCRP Synthesis I-07/Topic SB-42** – Operational and Service Factors When Integrating/Consolidating ADA Paratransit and On-Demand Services
• **TCRP Synthesis I-07/Topic SD-07** - Red Tinted Bus Lanes Experience
• **TCRP Synthesis I-07/Topic SH-24** – Impacts of Fentanyl and Substance Use on Transit
• **TCRP I-11/Task 45** – Future of Commuter Rail in North America
• **TCRP I-11/Task 47** – Affordable Housing and Transit
• **Transit IDEA I-04/IDEA 103** – Real-Time Trip Support for Multimodal Travelers

**Upcoming Projects**
• **NCHRP 08-181** - Impacts of Climate Change and Extreme Weather on the Mobility of Socially Vulnerable Populations
• **NCHRP 08-183** - Resource to Support Volunteer Driver Programs in Rural and Low-Density Areas
• **NCHRP 08-191** - Advancing Safe Connections for the Tribal and Rural Communities to the Intercity Bus Network
• **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 J-11** – Manual for Planning and Constructing a Small, Rural, or Tribal Transit Facility
• **TCRP J-31** – Modernizing Transit Station Staffing Approaches
• **TCRP H-62** – Innovations for Equitable Rural Transit Economic Benefit Analyses
• **TCRP I-05/Topic 20-02** – Liability Insurance Issues for Transit Lawyers: A Primer
• **TCRP I-11/Task 47** – Affordable Housing and Transit
• **TCRP J-11/Task 49** - Strategies to Increase Transit Ridership in the Post-Pandemic Era
Reports from the National Academies Press on Demand Responsive & Innovative Transportation Services

- Developing and Assessing Ideas for Social and Behavioral Research to Speed Efficient and Equitable Industrial Decarbonization: Proceedings of a Workshop
- Accelerating Decarbonization in the United States
- Navigating an Electric Vehicle Future
- Engineering Responses to Climate Change: Proceedings of a Forum
- Enhancing Federal Clean Energy Innovation
- The Future of Electric Power in the United States
- Materials Science and Engineering in a Post-Pandemic World: A DoD Perspective

Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic
- AEP50 - Transportation Demand Forecasting
- AEP60 - Transportation Demand Management
- AJE30 - Transportation Asset Management
- AME50 – Accessible Transportation and Mobility
- AP000 – Public Transportation Group
- AP010 – Transit Management and Performance
- AP015 – Transit Capacity and Quality of Service
- AP020 – Innovative Public Transportation Services and Technologies
- AP025 – Public Transportation Planning and Development
- AP030 – Public Transportation Marketing and Fare Policy
- AP045 – Passenger Intermodal Facilities
- AP055 - Rural, Intercity Bus, and Specialized Transportation
- AP075 – Light Rail Transit
- AP080 - Transit Safety and Security
- AR050 - Railroad Infrastructure Design and Maintenance
- AR055 - Rural, Intercity Bus, and Specialized Transportation
- AR060 - Rail Transit Infrastructure Design and Maintenance
- AR065 - Rail Transit Systems

Task Forces - Search for task force under committee here

Policy Study
- B0085 - Transit Research Analysis Committee (TRAC)

CRP Panels – Select CRP Panel and Synthesis Panel and search by transportation mode and committee topic
- D08130 - Best Practices in Coordination of Public Transit and Ride Sharing
- D08144 - Rural Transit Fleet Mix and Vehicle Size Decision Trees
- D08159 - Understand How Accessibility to Employment, Health Care, Education, and Other Vital Needs Varies for Different Population Groups in Different Settings, and Methods for Effectively Assessing Mobility and Accessibility Needs
- D1923 - Revenue-Related Strategies for New Mobility Options
- D2010224 - Infrastructure Enablers for Connected and Automated Vehicles and Shared Mobility--Near-Term and Mid-Term
- D2010229 - Incorporating New Mobility Options into Travel Demand Forecasting and Modeling
- D2030 - NCHRP IDEA (Innovations Deserving Exploratory Analysis)
- DA0147 - Guide to Airport Innovation--Creating an Organizational Fit for the Future
- DB021 - Assessing and Mitigating Racial Disparities in the Enforcement of Pedestrian, Bicycle, and Micromobility Traffic-Related Laws
- E1008 - Rail Safety Innovations Deserving Exploratory Analysis (IDEA) Program Committee
- STSB35 - Customer Education and Awareness of On-Demand Mobility
- TB47 - Mobility Inclusion for Un(der)served Population with the Emerging Technologies
- TH62 - Innovations for Equitable Rural Transit Economic Benefit Analyses
- TJ04 - Transit Innovations Deserving Exploratory Analysis (IDEA) Program Panel

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

TRB's Annual Automated Road Transportation Symposium
Jul 29-Aug 1, 2024
San Diego, CA

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

National Aviation System Planning Symposium
May 15-18, 2023
Irving, CA

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.

Forum on Preparing for Automated Vehicles and Shared Mobility Services
November 29, 2023
Washington, D.C.

TRB Webinar: Accessible Floating Bus Stops
November 28, 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 - 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