TRB Snap Search: Demand Responsive & Innovative Transportation Services

TRB's involvement in research on Demand Responsive & Innovative Transportation Services from 2022-2023

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 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)
  - 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
- Behavioral Traffic Safety Cooperative Research Program (BTSCR)
  - Report 6 - Identifying and Prioritizing Behavioral Interventions to Improve Child Passenger Safety in For-Hire Vehicles
- National Cooperative Highway Research Program (NCHRP)
  - 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 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 Subrecipent Consolidation and Urban 5310
  - 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
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 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 233 - Strategies for Deterring Trespassing on Rail Transit and Commuter Rail Rights-of-Way, Volume 2: Research Overview
Report 231 - Recent Decline in Public Transportation Ridership: Analysis, Causes, and Responses
Report 230 - Transit and Micromobility
Research Results Digest 115 - Use of Agency Service Agreements in ADA Paratransit Delivery
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

Recently Completed Projects/Pending Publication
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 23-04 - Statewide Insurance Pooling for Public Transit
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 T-11/Task 42 - Transportation for People with Disabilities and Older Adults during COVID-19: Lessons for Emergency Response
TCRP C-24 - Transit Traction Power Cables: Replacement Guidelines
TCRP B-48 - The Provision of Alternative Services by Transit Agencies: The Intersection of Regulation and Program

Current & Upcoming Projects

• Current Projects
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 08-131 - Access to Jobs, Economic Opportunities, and Education in Rural Areas
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 08-147 - Improving Public Transportation in Rural Areas and Tribal Communities
NCHRP 20-123 - Support for AASHTO Committees and Councils
NCHRP 23-13(01) - Telecommuting, Remote Work, and Hybrid Schedules: Managing the Shift to a Flexible Work Future
TCRP A-49 - Fare Policies, Structures, and Technologies -- 2022 Updates
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 C-25 - Bus Operator Barrier Design
TCRP E-28 - Practitioner’s Guide to Bus Operator Workforce Management
TCRP I-05/Topic 19-03 - Navigating the Complexities of Sensitive Security Information (SSI) and Protected Critical Infrastructure Information (PCII)
TCRP Synthesis J-07/Topic SD-07 - Red Tinted Bus Lanes Experience
TCRP Synthesis J-07/Topic SA-54 - Pedestrian and Bicycle Safety in Bus/BRT Corridors
TCRP Synthesis J-07/Topic SA-57 - Statewide Approaches to the Development of Comprehensive Transit Information Systems
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-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 SH-24 - Impacts of Fentanyl and Substance Use on Transit
Transit IDEA J-04/IDEA 103 - Real-Time Trip Support for Multimodal Travelers

Upcoming Projects
ACRP 03-76 - Effectiveness of Technology to Improve Airport Customer Service
NCHRP 08-159 - How to Assess and Address Equity of Access to Essential Goods and Services
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 20-06/Topic 27-04 - Managing Performance for Innovative Technology Contracts
TCRP A-51 - Innovative Practices for Technology Implementation at Rural, Small, and Mid-Sized Transit Agencies
TCRP B-53 - Addressing the Travel Needs of Women
TCRP D-23 - Guidebook for Planning and Constructing a Small and Rural Tribal Transit Facility
TCRP F-31 - Modernizing Transit Station Staffing Management
TCRP I-05/Topic 20-02 - Liability Insurance Issues for Transit Lawyers: A Primer
TCRP I-11/Task 45 - Future of Commuter Rail in North America
TCRP I-11/Task 47 - Affordable Housing and Transit

Reports from the National Academies Press on Demand Responsive & Innovative Transportation Services
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
AIE30 - 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
Task Forces - Search for task force under committee here

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

CRP Panels
- 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
- D201224 - 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
- 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

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.

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
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