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 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 241 - Toward a Touchless Airport Journey

- National Cooperative Highway Research Program (NCHRP)
  - Report 988 - Rural Transportation Issues: Research Roadmap

- Transit Cooperative Research Program (TCRP)
  - IDEA Report 98 - Safety Assessment of the Interaction Between the Autonomous Shuttle Bus and Vulnerable Road Users
  - Legal Research Digest 59 - Legal Issues and Emerging Technologies
  - Legal Research Digest 58 - Policing and Public Transportation
  - 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
  - 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
Current & Upcoming Projects

• Current Projects
  - ACRP 01-48 - Assessing Airport Programs for Travelers with Disabilities and Older Adults
  - ACRP 03-52 - Airport Common Use Program Development Guidebook
  - ACRP 04-24 - Guidelines to Develop an Anti-Human Trafficking Action Plan for Airports
  - ACRP Synthesis 11-03/Topic S03-17 - Airport Centric Advanced Air Mobility Market Study
  - NCHRP 08-131 - Access to Jobs, Economic Opportunities, and Education in Rural Areas
  - NCHRP 08-133 - Implementing the National Intercity Bus Atlas
  - NCHRP 08-140 - Guidebook for Truck Parking Information Management Systems
  - NCHRP 08-147 - Improving Public Transportation in Rural Areas and Tribal Communities
  - NCHRP 19-19 - Sustaining a Zero Fare Public Transportation Program in a Post COVID-19 World
  - NCHRP 20-102(11) - Mobility-on-Demand and Automated Driving Systems: A Framework for Public-Sector Assessment
  - 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 79 - Program Management Insights for the 5310 Program (Including Sub-Grantee Consolidation and Urban 5310)
  - NCHRP 20-65/Task 78 - Impact of Decline in Volunteerism on Rural Transit Systems
  - NCHRP 20-123 - Support for AASHTO Committees and Councils
  - NCHRP 23-04 - Statewide Insurance Pooling for Public Transit
  - NCHRP 23-13(01) - Telecommuting, Remote Work, and Hybrid Schedules: Managing the Shift to a Flexible Work Future
  - NCHRP Synthesis 20-05/Topic 54-13 - Truck Emergency Escape Ramp Design and Operation
  - TCRP A-46 - Quantitative Procedures for Designing and Operating Ferry Transit Services
  - TCRP B-47 - Mobility Inclusion for Un(der)served Population with the Emerging Technologies
  - TCRP B-48 - The Provision of Alternative Services by Transit Agencies: The Intersection of Regulation and Program
  - TCRP B-49 - Improving Public Transportation in Rural Areas and Tribal Communities
  - TCRP C-24 - Transit Traction Power Cables: Replacement Guidelines
  - TCRP C-25 - Bus Operator Barrier Design
  - TCRP F-28 - Practitioner’s Guide to Bus Operator Workforce Management
  - TCRP I-05/Topic 19-02 - Legal Issues and Emerging Technologies
  - TCRP I-05/Topic 19-03 - Navigating the Complexities of Sensitive Security Information (SSI) and Protected Critical Infrastructure Information (PCII)
  - TCRP I-05/Topic 20-01 - Legal Issues in Transit Mega Projects--Case Studies
  - TCRP I-11/Task 42 - Transportation Services for People With Disabilities and Older Adults during a Pandemic and Other Emergencies: Lessons Learned during the Covid-19 Pandemic
  - TCRP Synthesis I-07/Topic SA-54 - Pedestrian and Bicycle Safety in Bus/BRT Corridors
  - TCRP Synthesis I-07/Topic SB-32 - Use of Agency Trip Agreements in ADA Paratransit Service Delivery
  - TCRP Synthesis I-07/Topic SB-35 - Customer Education and Awareness of On-Demand Mobility
  - TCRP Synthesis I-07/Topic SB-36 - Dynamic Optimization on ADA Paratransit Service
  - Transit IDEA I-04/IDEA 99 – Bike Love

• Upcoming Projects
  - ACRP 11-08(20-02) - ACRP Insight Event--On-Demand Aviation Services for Passengers and Goods
  - 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 - Best Practices in Determining Rural Transit Fleet Size – How to Provide Service for Changing Demographics of Rural Ridership (Right-sizing of Rural Transit Fleets)
  - NCHRP 08-130 - Best Practices in Coordination of Public Transit and Ride Sharing
  - TCRP B-50 - Accessible Public Bus and Rail Passenger Information for Riders with Vision Disabilities
  - TCRP I-05/Topic 20-02 - Liability Insurance Issues for Transit Lawyers: A Primer
  - 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 SB-38 - Accessible Vehicles Fleet Configuration
Reports from the National Academies Press on Demand Responsive & Innovative Transportation Services

- 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
- 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
- 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

- D08130 - Best Practices in Coordination of Public Transit and Ride Sharing
- D08132 - Accessing America’s Great Outdoors: Understanding Recreational Travel Patterns, Demand, and Future Investment Needs for Transportation Systems
- D08144 - Best Practices in Determining Rural Transit Fleet Size – How to provide service for changing demographics of rural ridership (Right-sizing of rural transit fleets)
- D2010229 - Incorporating New Mobility Options into Travel Demand Forecasting and Modeling
- STSH20 - Innovative Practices for Transit Planning at Small- to Mid-Sized Agencies
- TG16 - Development of Open Data Standards for Demand Responsive Transportation Transactions
- TJ1138 - Diversity and Inclusion Plans, Policies and Best Practices in the Transportation Industry

Councils

- A001C – Young Members Coordinating Council

Recent and Upcoming Events

Upcoming TRB Conferences – Use left hand menu to filter events

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.
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’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