TRB Snap Search: Public Transportation

TRB’s involvement in research on Public Transportation from 2019-2020

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 Public Transportation within the past year.

Subject Webpages

- Public Transportation Research at TRB
- Passenger Transportation Research at TRB
- Public Transportation Maintenance Snap Search

Recent Reports & Publications

- **Airport Cooperative Research Program (ACRP)**
  - Report 194 - Using Disaggregated Socioeconomic Data in Air Passenger Demand Studies

- **National Cooperative Highway Research Program (NCHRP)**
  - NCHRP 20-65/Task 77 - Lessons Learned and Impacts to Date of State DOT Implementation of New Federal Transit
  - NCHRP 20-65/Task 76 - Opportunities for State DOTs (and Others) to Encourage Shared Use Mobility Practices in Rural Areas
  - NCHRP 20-65/Task 75 - Baseline Research on Allowable In-Kind and Local Match Sources
  - NCHRP 20-65/Task 73 - Best Practices and Marketing to Increase Rural Transit Ridership and Investment
  - Report 952 - Guidebook for Managing Data from Emerging Technologies for Transportation
  - Report 932 - A Research Roadmap for Transportation and Public Health
  - Report 924 - Foreseeing the Impact of Transformational Technologies on Land Use and Transportation

- **Transit Cooperative Research Program (TCRP)**
  - Program - Innovation in Action: Accomplishments of the Transit IDEA (Innovations Deserving Exploratory Analysis) Program
  - IDEA Report 90 - sUAS-based GeoINTEL1 for Commuter Rail Parking in Rural and Suburban Areas
  - IDEA Report 89 - Dynamic Vehicle to Infrastructure TCIP Communications Laboratory Proof of Concept
  - IDEA Report 86 - Advanced Neutral Temperature Estimation using Solitary Waves (ANTEUSW)
  - IDEA Report 85 - Location Aware Networks Optimizing Use of Transit Systems by Blind Travelers
  - IDEA Report 84 - Development of a Mass-Based Automated Passenger Counter
  - Report 213 - Data Sharing Guidance for Public Transit Agencies – Now and in the Future
  - Report 212 - Stray Current Control of Direct Current-Powered Rail Transit Systems: A Guidebook
- Report 210 - Development of Transactional Data Specification for Demand-Responsive Transportation
- Report 209 - Analysis of Recent Public Transit Ridership Trends
- Report 208 - Strategic Communications Toolkit to Improve Support for Transit-Priority Projects
- Report 207 - Fast-Track: A Tactical Transit Study
- Report 204 - Partnerships Between Transit Agencies and Transportation Network Companies (TNCs)
- Report 203 - Dialysis Transportation: The Intersection of Transportation and Healthcare
- Synthesis 149 - Transit Signal Priority: Current State of the Practice
- Synthesis 148 - Business Models for Mobile Fare Apps
- Synthesis 147 - Attracting, Retaining, and Advancing Women in Transit
- Synthesis 146 - Transit Security Preparedness
- Synthesis 145 - Current Practices in the Use of Onboard Technologies to Avoid Transit Bus Incidents and Accidents
- Synthesis 144 - Multimodal Fare Payment Integration
- Synthesis 143 - Managing the Transit Scheduling Workforce
- Synthesis 142 - Implementing the U.S. DOT Reasonable Modification Rule
- Synthesis 141 - Microtransit or General Public Demand-Response Transit Services: State of the Practice
- Synthesis 140 - Comprehensive Bus Network Redesigns
- Synthesis 139 - Transit Service Evaluation Standards
- Synthesis 138 - Public Transit Rider Origin-Destination Survey Methods and Technologies

- Transportation Research Circularens
  - E-Circular 262 - TRANSED 2018
  - E-Circular 261 - Preparing for Automated Vehicles and Shared Mobility: Mini-Workshop on the Economic Implications of Automated Vehicles and Shared Mobility
  - E-Circular 258 - Preparing for Automated Vehicles and Shared Mobility: Mini-Workshop on the Roles of Government and the Private Sector, July 15, 2019, Orlando, Florida
  - E-Circular 252 - TRB Forum on Preparing for Automated Vehicles and Shared Mobility: Mini-Workshop on the Transition Toward Shared Automated Vehicles
  - E-Circular 244 - Mobility on Demand: A Smart, Sustainable, and Equitable Future

Current & Upcoming Projects

- Current Projects
  - ACRP 01-40 - Evaluating the Traveler’s Perspective to Improve the Airport Customer Experience
  - ACRP 01-43 - Update ACRP Report 26: Guidebook for Conducting Airport User Surveys
  - ACRP 01-48 - Assessing Airport Programs for Travelers with Disabilities and Older Adults
  - ACRP 03-52 - Guidelines for Adapting and Managing Airport Common Use Programs
  - ACRP 11-01/Topic 10-04 - Updated Survey of Laws and Regulations Applicable to Airport Commercial Ground Transportation
  - ACRP Synthesis 11-03/Topic S01-22 - Last Mile in General Aviation - Challenges with Courtesy Cars and other forms of Ground Transportation
  - NCHRP 03-131 - Guidance for Planning and Implementing Multimodal, Integrated Corridor Management
  - NCHRP 08-119 - Data Integration, Sharing, and Management for Transportation Planning and Traffic Operations
  - 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 79 - 5310 Sub-Grantee Consolidation
  - NCHRP 20-65/Task 78 - Impact of Decline in Volunteerism on Rural Transit Systems
  - Asset Management and Public Transportation Agency Safety Requirements
  - NCHRP 20-102(11) - Mobility-on-Demand and Automated Driving Systems: A Framework for Public-Sector Assessment
  - TCRP A-45 - Measuring and Managing Fare Evasion
  - TCRP A-44 - Strategies for Deterring Trespassing on Rail Transit and Commuter Rail Rights-of-Way
  - TCRP A-43 - Recent Decline in Public Transportation Ridership: Analysis, Causes, Responses
  - TCRP B-47 - Impact of Transformational Technologies on Underserved Populations
  - TCRP C-24 - Transit Traction Power Cables: Replacement Guidelines
  - TCRP C-23 - Assessing and Mitigating Electrical Fires on Transit Vehicles
- **TCRP F-27** - Characteristics and Elements of Non-Punitive Employee Safety Reporting Systems for Public Transportation
- **TCRP F-26** - Improving the Health and Safety of Transit Workers with Corresponding Impacts on the Bottom Line
- **TCRP G-17** - Assessing Lifecycle and Human Costs of Bus Operator Workstation Design and Components
- **TCRP H-54** - Guide to Equity Analysis in Regional Transportation Planning Processes
- **TCRP H-56** - Redesigning Public Transportation Networks for a New Mobility Future
- **TCRP H-58** - Prioritization of Public Transportation Investments
- **TCRP I-05/Topic 19-04** - Joint Development Agreements Using FTA Funds or FTA-Funded Assets
- **TCRP I-05/Topic 18-02** - Codes of Conduct on Transit Vehicles and Property: Legal Issues
- **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 (PCI)
- **TCRP I-05/Topic 19-05** - Legal Issues Surrounding Disasters and Evacuations
- **TCRP I-11** - Quick-Response Research on Long-Term Strategic Issues
- **TCRP I-11/Task 34** - The Effects of Vehicle Automation on the Public Transportation Workforce
- **TCRP I-11/Task 35** - Resource Guide for Improving Diversity and Inclusion Programs for the Public Transportation Industry
- **TCRP I-11/Task 37** - Transit and Micro-Mobility (Bikeshare, Scooter-share, etc.)
- **TCRP I-11/Task 38** - An Analysis of Green Bond Financing in the Public Transportation Industry
- **TCRP Synthesis J-07/Topic SD-05** - Third Rail Insulator Failures- Current State of the Practice
- **TCRP Synthesis J-07/Topic SD-06** - Transit Agency Relationships and Initiatives to Improve
- **TCRP Synthesis J-07/Topic SG-17** - The Use and Practice of Intelligent Transportation Systems in Real-Time Headway Based Service Bus Operations
- **TCRP Synthesis J-07/Topic SH-19** - Considering the Unbanked in Cashless Fare Payment at Point of Service for Bus/Demand Response Services
- **Transit IDEA J-04/IDEA 97** - Open Platform to Attract, Organize, and Coordinate Volunteers for Rural and Small Urban Transit
- **Transit IDEA J-04/IDEA 96** - Multi-stage Planning for Electrifying Transit Bus Systems with Multiformat Charging Facilities
- **Transit IDEA J-04/IDEA 95** - Connected and Automated Parking Feasibility/MDOT MTA Dorsey Run Pilot Project
- **Transit IDEA J-04/IDEA 94** - Evaluation of Transit Vehicle Brake Inspection Through Ultrasonic Emissions Analysis
- **Transit IDEA J-04/IDEA 92** - Augmented Reality Transit Dispatcher Interface
- **Transit IDEA J-04/IDEA 91** - Comprehensive Wayfinding for All (CWall)
- **Transit IDEA J-04/IDEA 88** - Evaluation of an Automatic, Individual, Computer-Based Operator Education and Training Program

- **Upcoming Projects**
  - **ACRP 11-08(20-02)** - ACRP Insight Event--On-Demand Aviation Services for Passengers and Goods
  - **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** - Development and Implementation of the National Intercity Bus Atlas (NIBA)
  - **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 08-147** - Design Guide for Rural Deviated Fixed Route Transit Systems
  - **NCHRP 20-102(23)** - Potential Impacts of Highly Automated Vehicles and Shared Mobility on Traveler Behavior
  - **NCHRP 23-04** - Statewide Insurance Pooling for Public Transit
  - **TCRP B-48** - The Provision of Alternative Services by Transit Agencies: The Intersection of Regulation and Program
  - **TCRP C-25** - Bus Driver Security Barrier Design--The Challenges and Solutions
  - **TCRP F-28** - Practitioner’s Guide to Bus Operator Workforce Management
  - **TCRP G-18** - Improving Access and Management of Transit ITS Data
  - **TCRP I-05/Topic 19-01** - Legal Issues Regarding Multijurisdictional Transit Agencies
  - **TCRP I-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 Synthesis J-07/Topic SA-51** - Transit Safety Risk Assessment Methodologies
Assessing Equity and Identifying Impacts Associated with Bus Network Redesigns
- TCRP Synthesis J-07/Topic SA-52

BRT State of Practice, Experience, and Lessons Learned
- TCRP Synthesis J-07/Topic SA-53

Uses of Social Media in Public Transportation
- TCRP Synthesis J-07/Topic SB-33

Coordination of Public Transit Services and Investments with Affordable Housing Policies
- TCRP Synthesis J-07/Topic SB-34

Paratransit Service Delivery Models for Small Systems
- TCRP Synthesis J-07/Topic SG-19

Evaluation Framework for Fare-free Public Transportation
- TCRP J-11/Task 39

Homelessness: A Guide for Public Transportation
- TCRP J-11/Task 40

Reports from the National Academies Press on Public Transportation
- Implementing Strategies to Enhance Public Health Surveillance of Physical Activity in the United States
- Achieving Rural Health Equity and Well-Being
- Community-Based Health Literacy Interventions
- People Living with Disabilities - Health Equity, Health Disparities, and Health Literacy: Proceedings of a Workshop

Committees & Panels

TRB Standing Committees – Search by transportation mode and committee topic
- A0030C – City Transportation Issues Coordinating Council
- ACS60 – Truck and Bus Safety
- AJL20 – Transit and Intermodal Transportation Law
- 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
- AP050 – Bus Transit Systems
- AP055 – Rural, Intercity Bus, and Specialized Transportation
- AP065 – Rail Transit Systems
- AP075 – Light Rail Transit
- AR050 – Railroad Infrastructure Design and Maintenance
- AR060 – Rail Transit Infrastructure Design and Maintenance
- AW050 – Ferry Transportation

Task Forces - Search for task force under committee here

Policy Study
- B0085 – Transit Research Analysis Committee (TRAC)
- B0154 – Review Evidentiary Protection for Public Transportation Safety Program Information
- B0165 – Role of Public Transportation and Mobility Management in an Era of New and Expanding Shared Mobility Options

CRP Panels
- Project Panels Related to Public Transportation
- Project Panels Related to Passenger Transportation

Councils
- A001C – Young Members Coordinating Council

Recent and Upcoming Events

Upcoming Conferences - Left hand menu “upcoming conferences by topic”
(Conferences cosponsored by TRB are denoted with an asterisk.)

Transportation Asset Management Summer MegaMeeting*
July 13, 2020
Online
TRB Transit Safety and Security Conference and APTA Mid-year Safety and Security Seminar
November 16, 2020
Washington, DC

2021 NAEP Annual Conference and Training Symposium*
May 1, 2021
Phoenix, AZ

24th National Conference on Rural Public and Intercity Bus Transportation
October 24, 2021
Charleston, SC

Webinars – View upcoming webinars, suggest a webinar or add registration information

Past Webinars
  o  Public Transportation
  o  Passenger Transportation

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:

TRID – The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation - trid.trb.org

Publications Index (PubsIndex) Database – The papers, articles and reports published by the Transportation Research Board, Highway Research Board, Strategic Highway Research Programs or the Marine Board - pubsindex.trb.org

Research in Progress (RiP) Database – Current or recently completed transportation research projects - rip.trb.org

Research Needs Statements (RNS) – Research needs as identified by TRB Technical Activities standing committees - rns.trb.org

Contact the Library at TRBLibrary@nas.edu or 1 (202) 334-2989