TRB Snap Search: Transit Innovations

TRB’s involvement in research on Transit Innovations from 2019-2021

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 Transit Innovations within the past two years.

**Specialty Report**

- Critical Issues in Transportation 2019

**Recent Reports & Publications**

- **National Cooperative Highway Research Program (NCHRP)**
  - 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
  - Web-Only Document 287 - Planning and Implementing Multimodal, Integrated Corridor Management: Guidebook

- **Transit Cooperative Research Program (TCRP)**
  - Letter Report - Transit Research Analysis Committee: April 22, 2019
  - Program - Innovation in Action: Accomplishments of the Transit IDEA (Innovations Deserving Exploratory Analysis) Program
  - IDEA Report 94 - Evaluation of Transit Vehicle Brake Inspection through Ultrasonic Emissions Analysis
  - 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
  - Report 218 - Characteristics and Elements of Non-Punitive Employee Safety Reporting Systems for Public Transportation
  - Report 212 - Stray Current Control of Direct Current-Powered Rail Transit Systems: A Guidebook
  - Synthesis 145 - Current Practices in the Use of Onboard Technologies to Avoid Transit Bus Incidents and Accidents

- **Transportation Research Circulars**
  - 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 11-02/Task 41 - Toward a Touchless Airport Journey
  - NCHRP 20-65/Task 79 - Program Management Insights for the 5310 Program (Including Sub-Grantee Consolidation and Urban 5310)
  - NCHRP 20-65/Task 81 - Best Practices in Rural Service Assessment

Updated 11/17/2020
- **TCRP A-46** - Quantitative Procedures for Designing and Operating Ferry Transit Services
- **TCRP B-47** - Impact of Transformational Technologies on Underserved Populations
- **TCRP B-48** - The Provision of Alternative Services by Transit Agencies: The Intersection of Regulation and Program
- **TCRP H-58** - Prioritization of Public Transportation Investments
- **TCRP J-05/Topic 19-02** - Legal Issues and Emerging Technologies
- **TCRP J-05/Topic 19-03** - Navigating the Complexities of Sensitive Security Information (SSI) and Protected Critical Infrastructure Information (PCII)
- **Transit IDEA I-04/IDEA 88** - Evaluation of an Automatic, Individual, Computer-Based Operator Education and Training Program
- **Transit IDEA I-04/IDEA 91** - Comprehensive Wayfinding for All (CWall)
- **Transit IDEA I-04/IDEA 97** - Open Platform to Attract, Organize, and Coordinate Volunteers for Rural and Small Urban Transit

- **Upcoming Projects**
  - **NCHRP 08-130** - Best Practices in Coordination of Public Transit and Ride Sharing
  - **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)
  - **TCRP C-25** - Bus Driver Security Barrier Design--The Challenges and Solutions
  - **TCRP D-19** - 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
  - **TCRP I-05/Topic 20-01** - Legal Issues in Transit Mega Projects--Case Studies
  - **TCRP I-05/Topic 20-02** - Liability Insurance Issues for Transit Lawyers: A Primer

- **Reports from the National Academies Press on Transit Innovations**
  - Exploring the Frontiers of Innovation to Tackle Microbial Threats
  - The Role of NIH in Drug Development Innovation and Its Impact on Patient Access
  - Leveraging Commercial and Other Innovation for Future U.S. Navy Data Warfare Needs
  - Value Proposition and Innovative Models for Multi-Sectoral Engagement in Global Health
  - A Quadrennial Review of the National Nanotechnology Initiative
  - Innovations in the Food System - Exploring the Future of Food
  - Adapting to the 21st Century Innovation Environment

- **Committees & Panels**
  - Sign-up to be a committee "Friend"
  - **TRB Standing Committees** – Search by transportation mode and committee topic
    - **AIE35** - Research Innovation Implementation
    - **AP020** - Emerging and Innovative Public Transport and Technologies
    - **AP025** - Public Transportation Planning and Development
    - **AP045** - Passenger Intermodal Facilities
    - **AP065** - Rail Transit Systems
  - **Policy Studies**
    - **B0085** - Transit Research Analysis Committee (TRAC)
  - **CRP Panels**
    - **TJ04** - Transit-innovations Deserving Exploratory Analysis (IDEA)
    - **STSH20** - Innovative Practices for Transit Planning at Small- to Mid-Sized Agencies
  - **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.)
    - **2021 NAEP Annual Conference and Training Symposium**
      - May 1, 2021
      - Phoenix, AZ
Research Day at ITF Annual Summit - Transport Innovation for Sustainable Development  
May 25, 2021  
Leipzig, Germany

TRB Conference on Planning Applications  
June 21, 2021  
Online

Geo-Extreme Conference*  
August 15, 2021  
Savannah, GA

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 Passenger Transportation
  o Public 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:

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