TRB Snap Search: Planning & Forecasting

TRB's involvement in research on Planning & Forecasting 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: https://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 and projects on Planning & Forecasting within the past year.

Subject Webpage

- Planning & Forecasting Research at TRB

Specialty Reports

- 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 240 - Primer for Airport Organizational Redesign
  - Report 236 - Preparing Your Airport for Electric Aircraft and Hydrogen Technologies
  - Synthesis 118 - Airport Parking Pricing Strategies

- National Cooperative Highway Research Program (NCHRP)
  - NCHRP 20-44(30) - Measuring the Effectiveness of Public Involvement at Five State Departments of
  - NCHRP 20-123(01) - Transportation Asset Management Strategic Planning and Research Roadmap Development
  - Transportation: Implementation of the NCHRP Research Report 905 Toolkit
  - NCHRP 20-123(04) - Development of a Risk Management Strategic Plan and a Research Roadmap
  - Report 1035 - Guide to Effective Methods for Setting Transportation Performance Targets
  - Report 1008 - Attracting, Retaining, and Developing the 2030 Transportation Workforce: Design, Construction, and Maintenance
  - Report 1004 - Federal Funding Uncertainty in State, Local, and Regional Departments of Transportation: Impacts, Responses, and Adaptations
  - Report 1002 - Metropolitan Planning Organizations: Strategies for Future Success
  - Report 998 - Planning Freight-Efficient Land Uses: Methodology, Strategies, and Tools
  - Synthesis 592 - Practices for Balancing Safety Investments in a Comprehensive Safety Program
• Web-Only Document 330 - Accessibility Measures in Practice
• Web-Only Document 318 - Safety Prediction Models for Six-Lane and One-Way Urban and Suburban Arterials
• Web-Only Document 317 - Developing a Guide for Managing Performance to Enhance Decision-Making

• Transit Cooperative Research Program (TCRP)
  • IDEA Report 96 - Multi-stage Planning for Electrifying Transit Bus Systems with Multi-format Charging Facilities
  • Report 238 - Quantitative Procedures for Designing and Operating Ferry Services
  • Report 232 - The Impacts of Vehicle Automation on the Public Transportation Workforce

• Transportation Research Circulars
  • E-Circular 281 - Advancing Transportation Equity: Conference Summary and Action Brief
  • E-Circular 277 - 13th National Conference on Transportation Asset Management

Current & Upcoming Projects

• Current Projects
  • ACRP 01-36 - Guidebook for Developing State Aviation System Plans
  • ACRP 01-41 - Airport Blockchain Implementation Guidebook
  • ACRP 01-49 - The Evolution of Knowledge Management at Airports
  • ACRP 02-92 - Creating Self-Directed Resiliency Plans at GA Airports
  • ACRP 02-93 - Guidebook for PFAS Management at Airports
  • ACRP 02-96 - Update ACRP Report 99: Guidance for Treatment of Airport Stormwater Containing Deicers
  • ACRP 02-99 - Incorporating Environmental Justice and Equity Principles and Data into Airport Decision-Making
  • ACRP 03-49 - Effective Collaboration to Plan and Respond to Communicable Disease Threats
  • ACRP 03-59 - Strategies to Address Homelessness at Airports
  • ACRP 03-60 - Incorporating Shock Events into Aviation Demand Forecasting and Airport Planning
  • ACRP 03-62 - A Toolkit for Establishing Airport Catchment Areas
  • ACRP 03-63 - Modernizing Air Cargo Operations and Infrastructure at U.S. Airports
  • ACRP 03-65 - ACRP Policy and Planning Product Updates
  • ACRP 03-66 - Guidebook for Digital Twin Programs at Airports
  • ACRP 03-68 - Integration of Contingency Planning for Small Airports
  • ACRP 04-25 - Airports and Communicable Diseases—Preparedness and Response
  • ACRP 07-19 - Update to ACRP Report 25: Airport Passenger Terminal Planning and Design
  • ACRP 09-20 - Quantifying the Impacts of Delayed Maintenance of Airport Assets
  • ACRP 10-30 - Evaluating the Effectiveness of an Airport's Wildlife Hazard Management Program
  • ACRP 11-05 - Tactical Initiatives from the ACRP Strategic Plan
  • ACRP 11-08(20-01) - ACRP Insight Event--Future of Aviation
  • ACRP 11-11/Task 01 - Knowledge Transfer of Lessons Learned From ACRP Product Implementation
  • BTS/CRP BTS-14 - Informing the Selection of Countermeasures by Evaluating, Analyzing, and Diagnosing Contributing Factors that Lead to Crashes
  • NCHRP 03-128 - Business Intelligence Techniques for Transportation Agency Decision Making
  • NCHRP 07-30 - Methods for Assigning Short-Duration Traffic Volume Counts to Adjustment Factor Groups for Estimating AADT
  • NCHRP 08-119 - Developing Data Standards and Guidance for Transportation Planning and Traffic Operations - Phase 1
  • NCHRP 08-132 - Accessing America’s Great Outdoors: Forecasting Recreational Travel Demand
  • NCHRP 08-134 - Integrating Freight Movement into 21st Century Communities' Land Use, Design, and Transportation Systems
  • NCHRP 08-135 - Reliability and Quality of Service Evaluation Methods for Rural Highways
  • NCHRP 08-142 - Virtual Public Involvement: A Manual for Effective, Equitable, and Efficient Practices for Transportation Agencies
  • NCHRP 08-149 - Estimating Benefits of Closing Gaps in Active Transportation Networks
  • NCHRP 08-154 - Guidance for Agencies to Incorporate Uncertainty into Long-Range Transportation Planning
  • NCHRP 08-162 - Guidance for Implementing Equitable Transportation Decision-Making
  • NCHRP 13-09 - Maximizing Proceeds from the Fleet Asset Disposal Sales Process
  • NCHRP 14-42 - Determining the Impact of Connected and Automated Vehicle Technology on State DOT Maintenance Programs
  • NCHRP 17-98 - Guide for Intersection Control Evaluation
  • NCHRP 17-100 - Leveraging Artificial Intelligence and Big Data to Enhance Safety Analysis
- Transitioning Fuel Tax Assessments to a Road Usage Charge
- Review of Statutory and Case Law on Planning and Environmental Linkages
- Mapping the Common Interests of AASHTO Committees
- Collective and Individual Actions for State Departments of Transportation Envisioning and Realizing the Next Era of America’s Transportation Infrastructure – Phase I
- Guidelines for Selecting Travel Forecasting Methods and Techniques—Implementation
- Impact of Decline in Volunteerism on Rural Transit Systems
- Best Practices in Rural Service Assessment
- Issues Associated with Providing Customized, Client-Based Transportation Services Models
- Impacts of Connected Vehicles and Automated Vehicles on State and Local Transportation Agencies--Task-Order Support
- Updated Research Roadmap for NCHRP 20-102, Impacts of Connected Vehicles and Automated Vehicles on State and Local Transportation Agencies
- Realistic Timing Estimates for Automated Vehicle Implementation
- Toolbox for Navigating the Land-Use Impacts of the Automated Vehicle Ecosystem
- Support for AASHTO Committees and Councils
- System Mobility and Emerging Technologies (SMET): Strategic Planning Session and Research Roadmap Development
- Strategic Plan and Research Roadmap for the AASHTO Committee on Planning
- Strategies for Incorporating Resilience into Transportation Networks
- Support for Critical Issues in Transportation and Commitment to the Future HIS
- Business Case and Communications Strategies for State DOT Resilience Efforts
- Emergency Response: Organizational and Operational Models Used by State DOTs
- Development of Crash Prediction Models for Short-Term Durations
- Effective Methods for Setting Transportation Performance Targets
- Research Roadmap for Knowledge Management
- Guidance on Risks Related to Emerging and Disruptive Transportation Technologies
- Implementing and Leveraging Machine Learning at State Departments of Transportation
- Practices in the Collection and Use of Utility As-Built Information for Minimizing Project Risks
- Practices for Statewide and MPO Coordination
- Visualization for Public Involvement
- Practices for Integrating Performance-Based Plans with Long-Range Transportation Plans and Statewide Transportation Investment Programs
- Programmatic Implementation of Alternative Contracting Methods
- Practices to Address Climate Change in the Transportation Planning Process
- Impact of Transformational Technologies on Underserved Populations
- Planning for Innovation & Emerging Mobility Futures at Intermodal Passenger Facilities
- Racial Equity, Black America and Public Transportation
- Quick-Response Research on Long-Term Strategic Issues
- Pathways to Effective, Inclusive, and Equitable Virtual Public Engagement for Public Transportation

- Strategic Futuring of Airports and their Role in the U.S. Airport System
- Review and Update of ACRP Administration and Human Resources Products
- Airport Energy Resiliency Primer and Roadmap
- Guidelines for Planning for Future Growth of Electric Vehicles at Airports
- ACRP WebResource to Support Research into Air Traveler Choice Models
- Airport Emergency Management Capabilities Development
- Best Practices for Building and Improving an Aircraft Rescue and Firefighting Program
- Understanding Opportunities of Deploying Private Wireless Network at Airports
- Incorporating Emerging Transportation and Ground Access Technologies at Airports
- Automatic Dependent Surveillance-Broadcast (ADS-B) Airport Traffic Count Validation and Recommendations
- Successful Community Inclusion in Advanced Air Mobility
- Multi-Solving Safety Approach - Stepping Away from Silos to Achieve a Safer System
- Guide to the Contextual Application of Overhead Lighting on Highways
- Institutionalizing Safe Systems and Safety Culture in the Transportation Planning Process
- Impacts of E-Commerce on Travel and Land Use Patterns
- Frameworks, Guidance, and Tools to Support Post-Implementation Evaluation of Transportation Projects
- Equity, Diversity, and Inclusion and Other Indicators to Improve Transportation Asset Management Impact and Outcomes
- Integrating Active Transportation Data into Transportation Decision-Making
- Institutional Integration of Active Transportation
- Cultivating Accountability Through Meaningful Public Engagement
- Planning for Innovative and Emerging Mobility Futures at Intermodal Passenger Facilities
- A Guide for the Development and Use of Truck Traffic Forecasts in Design
- Strategies for Improving Diversity, Equity, and Inclusion in the Transportation Planning Profession
- Valuation of Transportation Equity in Active Transportation and Safety Investments
- Integrating Resiliency into Transportation System Operations
- Best Practices in Determining Rural Transit Fleet Size – How to Provide Service for Changing Demographics of Rural Ridership (Right-sizing of Rural Transit Fleets)
- A Guidebook for Local Truck Parking Regulations
- Guide to the Integration of Transportation Systems Management and Operations into Transportation Asset Management
- Guidance on Using Performance-Based Management Approaches for Maintenance
- Snapshots of Planning Practices
- Guide on Progressive Design-Build for Transportation Projects
- Implementation of Bridge Preservation Actions
- Work Zone Intrusion Frequency and Characteristics
- Future Equity Impacts of Existing Fuel Taxes
- Revenue-Related Strategies for New Mobility Options
- Strategic Research in Support of the Connected and Automated Vehicle Executive Leadership Team
- Understanding Knowledge Management in Context with Other Organizational Practices
- Deploying Transportation Resilience Practices in State DOTs: Implementation
- Infrastructure Modifications to Improve the Operational Conditions of Automated Vehicles
- Development of a New Transportation System Operations Strategic Plan
- Incorporating Driver Behavior and Characteristics into Safety Prediction Methods
- Transportation Research Related to COVID-19
- Methods to Allow Agencies to Incorporate Quantitative Risk Assessment at Project and Network Level
- Guidance in Planning for Managed Retreat as an Extreme Weather and Climate Adaptation Strategy
- Mobile Devices as a Tool for Digitalized Project Documentation and Inspection
- Transportation Emergency Response Application (TERA): Migration Options Beyond 2020
- Legal Issues Surrounding Disasters and Evacuations
- Transit Agency Goals and Non-Traditional Performance Indicators Focused on Equity
- RFQ: Demographic and Technological Trends Impacting the DMV of the Future
- Evaluation of FHWA’s Every Day Counts Program
- Evaluation of FHWA’s Every Day Counts Innovation Integrating NEPA and Permitting

Reports from the National Academies Press on Planning & Forecasting

- Transportation and Infrastructure » Planning and Forecasting
- Wildland Fires: Toward Improved Understanding and Forecasting of Air Quality Impacts
- Anticipating Rare Events of Major Significance
- Planning the Future Space Weather Operations and Research Infrastructure
- Taking Stock of Science Standards Implementation: Planning for Progress
- Systematizing the One Health Approach in Preparedness and Response Efforts for Infectious Disease Outbreaks
- Offshore Situation Room - Enhancing Resilience to Offshore Oil Disasters in the Gulf of Mexico: Proceedings of a Workshop

Committees & Panels

Sign-up to be a committee "Friend"
**TRB Standing Committees** - Search by transportation mode and committee topic

- **AE000** - Data, Planning, and Analysis Group
- **AE010** - Transportation Planning and Analysis
- **AE010** - Transportation Planning Policy and Processes
- **AE015** - Transportation Planning Analysis and Application
- **AE050** - Transportation Demand Forecasting
- **AMR40** - Systems, Enterprise, and Cyber Resilience
- **AME50** - Extreme Weather and Climate Change Adaptation
- **AP025** - Public Transportation Planning and Development
- **AT015** - Freight Transportation Planning and Logistics
- **AV020** - Aviation System Planning
- **AV040** - Aviation Economics and Forecasting

**Task Forces** - Search for *task force* under committee here

- **A0020T** – Climate Change and Energy

**CRP Panels**

- **D03114** - Planning and Evaluating Active Traffic Management Strategies
- **D03131** - Guidance for Planning and Implementing Multimodal, Integrated Corridor Management
- **D03148** - Capabilities, Requirements, Planning, and Preparing to Virtually Operate Traffic Management Systems (TMSs)
- **D08119** - Developing Data Standards and Guidance for Transportation Planning and Traffic Operations – Phase I
- **D08122** - Metropolitan Planning Organizations: Transportation Partnerships for the 21st Century
- **D08128** - Snapshots of Planning Practices
- **D08129** - Incorporating Resilience Concepts and Strategies in Transportation Planning Efforts
- **D08152** - Strategies for Improving Diversity, Equity, and Inclusion in the Transportation Planning Profession
- **D08154** - Guidance for Agencies to Incorporate Uncertainty into Long-Range Transportation Planning
- **D08171** - Institutionalizing Safe Systems and Safety Culture in the Transportation Planning Process
- **D0836** - Research for AASHTO Standing Committee on Planning: Support for Improved Transportation Planning and Project Development
- **D10101** - Improving Mid-Term, Intermediate, and Long-Range Cost Forecasting: Guidance for State Departments of Transportation
- **D10115** - Guide on Progressive Design-Build for Transportation Projects: Project Planning through Project Implementation
- **D17101** - Applying the Safe System Approach to Transportation Planning, Design, and Operations in the United States
- **D1781** - Incorporating Road Safety Planning in the Highway Safety Manual
- **D2010229** - Incorporating New Mobility Options into Travel Demand Forecasting and Modeling
- **D2012301** - Transportation Asset Management Strategic Planning and Research Roadmap Development
- **D2012313** - Strategic Plan and Research Roadmap for AASHTO Committee on Planning
- **D20442** - Guidelines for Selecting Travel Forecasting Methods and Techniques (NCHRP 08-94)
- **D2328** - Planning for 4.9 GHz Spectrum Changes — What Transportation Agencies Need to Know
- **D2333** - Guidance in Planning for Managed Retreat as an Extreme Weather and Climate Adaptation Strategy
- **DA0292** - General Aviation Airports and Resilience: Complete Toolkits for Self-Directed Planning
- **DA0351** - Electric Aircraft on the Horizon -- An Airport Planning Perspective
- **DA0356** - Airside Planning, Design and Operations: Electronic Resource Delivery
- **DA0360** - Incorporating Shock Events into Traffic and Forecasting and Airport Planning
- **DA0365** - ACRP Policy and Planning Product Updates
- **DA0368** - Integrated Contingency Planning for Small and Non-Hub Airports
- **DA0371** - Guidance for Planning for Future Electric Vehicle Growth at Airports
- **DA0716** - Airport Terminal Ancillary Service Spaces and Restroom Planning and Design
- **DA0719** - Update to ACRP Report 25: Airport Passenger Terminal Planning and Design
- **DA110233** - Research Roadmap on Policy and Planning Issues
- **SC005** - Subcommittee on Planning and Policy Review
- **SN4813** - Resilience in Transportation Planning, Engineering, Management, Policy, and Administration
- **SN5314** - Use of Probe Data for Freight Planning and Operations
- **SN5317** - Integrating Freight into Policies, Planning, and Project Development for Active Transportation
- **SN5421** - Practices to Address Climate Change in the Transportation Planning Process
- **TH58** - Transit Prioritization Scoring Methodology in Metropolitan Planning Organizational Programing
- **TH61** - Resilience and Emergency Response Planning for Zero-Emission Fleets
Councils
- A001C – Young Members Coordinating Council
- A0030C - City Transportation Issues Coordinating Council
- A0040C - Rural Transportation Issues Coordinating Council

Recent and Upcoming Events

Upcoming TRB Conferences – Use left hand menu to filter events

**International Conference on Road Weather and Winter Maintenance**
*May 9-10, 2023*  
*Washington, D.C.*

**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.*

**National Conference on Transportation Asset Management**
*July 8-11, 2023*  
*Boston, MA*

**TRB International Conference on Low Volume Roads**
*July 23-26, 2023*  
*Cedar Rapids, IA*

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](http://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](http://trt.trb.org) – A tool to improve the indexing and retrieval of transportation information.
- Research in Progress (RiP) Database – [rip.trb.org](http://rip.trb.org) - Current or recently completed transportation research projects
- Publications Index (PubsIndex) Database – [pubsindex.trb.org](http://pubsindex.trb.org) - The papers, articles and reports published by the Transportation Research Board, Strategic Highway Research Programs or the Marine Board

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