TRB Snap Search: Safety & Human Factors

TRB's involvement in research on Safety & Human Factors 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](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 Safety & Human Factors within the past year.

Subject Webpages

- Safety & Human Factors Research at TRB
- Behavioral Traffic Safety Cooperative Research Program (BTSCRPU)

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)
  - Legal Research Digest 44 - Airports Responding to Public Health Emergencies: Legal Considerations
  - Report 253 - Airports Lessons Learned from the COVID-19 Pandemic
  - Report 249 - Developing an Airport Program to Address Human Trafficking: A Guide
  - Report 248 - Airport Insurance Requirements
  - Report 246 - Airside Operations Safety: Understanding the Effects of Human Factors
  - Report 233 - Airport Biometrics: A Primer
  - Report 229 - Airport Collaborative Decision Making (ACDM) to Manage Adverse Conditions
  - WebResource 11 - Construction Safety and Phasing Plans

- Behavioral Traffic Safety Cooperative Research Program (BTSCRPU)
  - Report 9 - E-Scooter Safety Toolbox
  - Report 8 - Highway Safety Behavioral Strategies for Rural and Tribal Areas
  - Report 7 - Improving MPO and SHSO Coordination on Behavioral Traffic Safety: Guide and Toolkit
  - Report 6 - Identifying and Prioritizing Behavioral Interventions to Improve Child Passenger Safety in For-Hire Vehicles
  - Report 5 - Strategies to Improve State Traffic Citation and Adjudication Outcomes
  - Report 4 - Promoting Older Driver Safety: Guide for State Practices
  - Report 3 - Behavioral Traffic Safety Messaging on Variable Message Signs

Updated 9/19/2023
- Report 1 - Using Electronic Devices While Driving: Legislation and Enforcement Implications
- Research Results Digest 1 - E-Scooter Safety: Issues and Solutions
- Web-Only Document 5 - E-Scooter Safety: Issues and Solutions
- Web-Only Document 2 - Development of Research Problem Statements That Utilize Naturalistic Driving Data to Improve Teen Driving Safety
- Web-Only Document 1 - Influence of Infrastructure Design on Distracted Driving
- WebResource 1 - Employer-Based Driver Safety Programs

- IDEA Safety Program
  - Report 45 - Development of a Fatigue Load for Railway Bridges
  - Report 44 - Laser-based Non-destructive Spike Defect Inspection System
  - Report 38 - Minimization of Weld Failures by Means of Gas and Shrinkage Porosity Reduction
  - Report 37 - Measuring Behavior of Railroad Bridges under Revenue Traffic using Lasers and Unmanned Aerial Vehicles (UAVs) for Safer Operations: Implementation
  - Report 36 - Onboard High-Bandwidth Fiber-Optic Sensing System for Broken Rail Detection

- National Cooperative Highway Research Program (NCHRP)
  - IDEA Report 228 - A Retroreflective Road Lane Marking Tape 1,000X Brighter than Existing Technology
  - IDEA Report 217 - A Real-Time Proactive Intersection Safety Monitoring and Visualization System Based on Radar Sensor Data
  - IDEA Report 214 - An Enhanced Network-Level Curve Safety Assessment and Monitoring Using Mobile Devices
  - IDEA Report 212 - Non-Gating Guardrail Terminal
  - IDEA Report 206 - Rule-Based Automated Safety Monitoring System for Work Zone Safety
  - Report 1051 - Preparing Transportation Agencies for Connected and Automated Vehicles in Work Zones
  - Report 1050 - Wrong-Way Driving Solutions Handbook
  - Report 1044 - Development and Application of Quantitative Macro-Level Safety Prediction Models
  - Report 1043 - Guide for Roundabouts
  - Report 1033 - Long-Term Roadside Crash Data Collection Program
  - Report 1030 - Safety at Midblock Pedestrian Signals
  - Report 1016 - Design Guidelines for Mitigating Collisions with Trees and Utility Poles
  - Report 1010 - In-Service Performance Evaluation: Guidelines for the Assembly and Analysis of Data
  - Report 1006 - Guide to Understanding Effects of Raising Speed Limits
  - Report 992 - Guide to Pedestrian Analysis
  - Report 991 - Guidelines for the Development and Application of Crash Modification Factors
  - Report 983 - Reliability of Crash Prediction Models: A Guide for Quantifying and Improving the Reliability of Model Results
  - Report 981 - Guidelines for Quantifying Benefits of Traffic Incident Management Strategies
  - Report 974 - Application of Crash Modification Factors for Access Management, Volume 2: Research Overview
  - Report 969 - Traffic Signal Control Strategies for Pedestrians and Bicyclists
  - Synthesis 608 - Practices to Motivate Safe Behaviors with Highway Construction and Maintenance Crews
  - Synthesis 592 - Practices for Balancing Safety Investments in a Comprehensive Safety Program
  - Synthesis 591 - Use of Safety Management Systems in Managing Highway Maintenance Worker Safety
  - Synthesis 588 - Design Practices for Rock Slopes and Rockfall Management
  - Synthesis 587 - Use of Smart Work Zone Technologies for Improving Work Zone Safety
  - Synthesis 582 - Highway Infrastructure Inspection Practices for the Digital Age
  - Synthesis 575 - Lighting Practices for Isolated Rural Intersections
  - Synthesis 574 - Temporary Pavement Markings Placement and Removal Practices in Work Zones
  - Synthesis 571 - Load Rating of Bridges and Culverts with Missing or Incomplete As-Built Information
  - Web-Only Document 361 - Determination of Work Zone Encroachments
  - Web-Only Document 357 - Wrong-Way Driving Solutions, Policy, and Guidelines
  - Web-Only Document 354 - Safe and Effective Temporary Traffic Control for Mobile Operations on Two-Lane Roadways
- Web-Only Document 347 - Background and Summary of a Guide for Roundabouts
- Web-Only Document 341 - Roadside Database Coding Manual
- Web-Only Document 332 - Multi-State In-Service Performance Evaluations of Roadside Safety Hardware
- Web-Only Document 319 - Roadside Safety Analysis Program (RSAP) Update
- Web-Only Document 318 - Safety Prediction Models for Six-Lane and One-Way Urban and Suburban Arterials
- Web-Only Document 312 - Enhancing Pedestrian Volume Estimation and Developing HCM Pedestrian Methodologies for Safe and Sustainable Communities
- Web-Only Document 306 - Safety Prediction Methodology and Analysis Tool for Freeways and Interchanges

**Special Reports / Consensus Studies**
- Report 345 - Preparing for LNG by Rail Tank Car: A Readiness Review
- Report 343 - Strengthening U.S. Coast Guard Oversight and Support of Recognized Organizations: The Case of the Alternative Compliance Program
- Report 342 - Options for Improving the Safety of DUKW Type Amphibious Vessels
- Report 341 - Technical Feasibility of a Wheelchair Securement Concept for Airline Travel: A Preliminary Assessment
- Report 338 - Modernizing the U.S. Offshore Oil and Gas Inspection Program for Increased Agility and Safety Vigilance
- Substance Misuse Programs in Commercial Aviation: Safety First

**Transit Cooperative Research Program (TCRP)**
- IDEA Report 98 - Safety Assessment of the Interaction Between the Autonomous Shuttle Bus and Vulnerable Road Users
- IDEA Report 88 - Evaluation of an Automatic, Individual Computer-Based Driver Education and Training Program
- Legal Research Digest 58 - Policing and Public Transportation
- Report 234 - Measuring and Managing Fare Evasion
- Report 233 - Strategies for Deterring Trespassing on Rail Transit and Commuter Rail Rights-of-Way, Volume 1: Guidebook
- Report 233 - Strategies for Deterring Trespassing on Rail Transit and Commuter Rail Rights-of-Way, Volume 2: Research Overview
- Report 229 - Assessing and Mitigating Electrical Fires on Transit Vehicles
- Synthesis 169 - Pedestrian and Bicycle Safety in Bus Rapid Transit and High-Priority Bus Corridors
- Synthesis 159 - Assessing Equity and Identifying Impacts Associated with Bus Network Redesigns
- Synthesis 157 - Transit Safety Risk Assessment Methodologies
- Synthesis 169 - Pedestrian and Bicycle Safety in Bus Rapid Transit and High-Priority Bus Corridors

**Transportation Research E-Circulars**
- E-Circular 283 – 13th International Conference on Low-Volume Roads
Recently Completed Projects/Pending Publication

- **ACRP 03-49** - Effective Collaboration to Plan and Respond to Communicable Disease Threats
- **ACRP 03-57** - A Guidebook to Prepare Airports for Transformations in Wireless Connectivity
- **ACRP 04-27** - Alternative Methods to Manage Tree Growth Near Airports
- **ACRP 11-02/Task 41** - Toward a Touchless Airport Journey
- **NCHRP 03-119** - Application of MASH Test Criteria to Breakaway Sign and Luminaire Supports and Crashworthy Work-Zone Traffic Control Devices
- **NCHRP 05-24** - Guidelines for Vehicle and Equipment Color, Marking, and Lighting
- **NCHRP 15-66** - Operational Performance and Safety Effects of Arterial Weaving Sections
- **NCHRP 15-68** - Effective Low-Noise Rumble Strips
- **NCHRP 15-74** - Safety Evaluation of On-Street Bicycle Facility Design Features
- **NCHRP 17-86** - Estimating Effectiveness of Safety Treatments in the Absence of Crash Data
- **NCHRP 17-92** - Developing Safety Performance Functions for Rural Two-Lane Highways that Incorporate Speed Measures
- **NCHRP 17-93** - Updating Safety Performance Functions for Data-Driven Safety Analysis
- **NCHRP 17-95** - Crash Modification Factors for Intelligent Transportation Systems (ITS) Applications
- **NCHRP 17-96** - Traffic Safety Culture Research Roadmap
- **NCHRP 20-124** - Deploying Transportation Security Practices in State DOTs
- **NCHRP IDEA Project 223** - Fatigue Crack Inspection Using Computer Vision and Augmented Reality
- **NCHRP IDEA Project 231** - AI Analyzer for Revealing Insights of Traffic Crashes
- **NCHRP Research Report 1036** - Roadway Cross-Section Reallocation: A Guide (expected Fall 2023)
- **Rail Safety IDEA Project 43** - Augmenting Reality for Safer Inspections of Railroad Infrastructure and Operations
- **TCRP E-13** - COVID-19 and Transit Air Quality Protections (Insight Event)

Current & Upcoming Projects

- **Current Projects**
  - **ACRP 01-41** - Airport Blockchain Implementation Guidebook
  - **ACRP 09-22** - Guidance for Small Airports on Safe Maintenance of Airfield Electrical Systems
  - **ACRP 02-94** - Update ACRP WebResource 4: Airport Air Quality Resource Library
  - **ACRP 02-95** - Understanding Airport Air Quality and Public Health Studies Related to Airports: An Update to ACRP Report 135
  - **ACRP 04-25** - Airports and Communicable Diseases—Preparedness and Response
  - **ACRP 04-28** - Developing Alternative Aircraft Arresting Systems
  - **ACRP 07-20** - Reducing and Managing Disruptive and Unruly Behavior in Airports
  - **ACRP 10-29** - Aircraft Jet Blast Estimation Tool
  - **ACRP 11-02/Task 44** - Developing an Airport Communicable Disease Response Plan Template
  - **ACRP Synthesis 11-03/Topic S06-07** - Evolution of Airport Work Models and Strategies
  - **BTSCR BPS-13** - Communicating Safe Behavior Practices to Vulnerable Road Users
  - **BTSCR BPS-14** - Informing the Selection of Countermeasures by Evaluating, Analyzing, and Diagnosing Contributing Factors that Lead to Crashes (Joint project with NCHRP 22-45)
  - **BTSCR BPS-16** - Developing Driver Skills Examination and Scoring Guidance for Evaluating and Predicting High Safety Risk Drivers
  - **BTSCR BPS-17** - Determining the Effectiveness of Combined High Visibility Enforcement
  - **BTSCR BPS-18** - Objectives, Components, and Measures of Effective Traffic Safety Public Awareness and Education Efforts
  - **BTSCR BPS-19** - Moped and Motor Scooter (50 cc or less) Safety: Issues and Countermeasures
  - **BTSCR BPS-20** - Strategies to Address Misreporting of Impaired and Distracted Driving in Motor Vehicle Crashes
  - **BTSCR BPS-21** - Assessing and Mitigating Racial Disparities in the Enforcement of Pedestrian, Bicycle, and Micromobility Traffic-Related Laws
- Guidelines for Selecting Communication Channels to Deliver Traffic Safety Messaging
- Outcomes of Variability in Teen Driving Experience and Exposure: Evidence from the Naturalistic Driving Study
- Cost-Benefit Evaluations of Detection Methods for Driving Under the Influence of Drugs (DUID)
- Advanced Driver Assistance Systems (ADAS) Education and Outreach
- Evaluation of Motorcycle Licensing and Training Requirements
- Teen Driving Performance Associated with Distraction, ADHD, and Other Risk Factors
- Guide for Roundabouts
- Next Generation of the USLIMITS2 Speed Limit Setting Expert System
- Evaluating the Impacts of Real-Time Warnings and Variable Speed Limits on Safety and Travel Reliability during Weather Events
- Modern Solutions to Safe and Efficient Work Zone Travel
- Guide for Preventing and Mitigating the Risk of Bridge and Tunnel Strikes by Motor Vehicles
- Best Practices for Data Fusion of Probe and Point Detector Data
- Design Options to Reduce Turning Motor Vehicle–Bicycle Conflicts at Intersections
- Guidebook for Urban and Suburban Roadway Cross-Sectional Reallocation
- Development of Clear Recovery Area Guidelines
- Long-Term Roadside Crash Data Collection Program
- Benefit-Cost Methodology for Behavioral Highway Safety Countermeasures
- Roadside Encroachment Database Development and Analysis
- Strategies to Improve Pedestrian Safety at Night
- Assessing Safety Effectiveness of Treatments and Technologies at Highway-Rail Grade Crossings
- Leveraging Artificial Intelligence and Big Data to Enhance Safety Analysis
- Applying the Safe System Approach to Transportation Planning, Design, and Operations in the United States
- Safety Performance for Active Transportation Modes Using Exposure Models
- Motorist Behavior and Safety Impacts on Bicyclists from Centerline and Shoulder Rumble Strips on High-Speed Two-Lane Highways
- Developing Crash Modification Factors for Alternative Intersections
- Crash Modification Factors for Automated Traffic Signal Performance Measures
- Implementation for NCHRP Report 948 - Guide for Pedestrian and Bicycle Safety at Alternative Intersections and Interchanges
- Impacts of Connected, Automated Vehicle Technologies on Traffic Incident Management Response
- Guidebook for Addressing Encampments on State Transportation Rights-of-Way
- Investigation of Material Requirements for Highway Guardrail Specifications
- Proposed AASHTO Guidelines for Implementation of MASH for Sign Supports, Breakaway Poles, and Work Zone Traffic Control Devices
- A Transportation Agency Data Collection Practice for Use with In-Service Performance Evaluations (ISPEs)
- Informing the Selection of Countermeasures by Evaluating, Analyzing, and Diagnosing Contributing Factors that Lead to Crashes
- The Effect of Vehicle Mix on Crash Frequency and Crash Severity
- Crashworthiness of Roadside Hardware on Curbed Roadways
- Delineation of Linear Roadside Hardware Systems and Roadside Obstacles
- Implementation of MASH Surrogate Test Vehicles for Sign Supports, Breakaway Poles, and Work Zone Traffic Control Devices
- Development of Non-proprietary Prefabricated Solutions for Concrete Barrier Systems for Accelerated Bridge Construction
- Transportation Research Related to COVID-19
- Telecommuting, Remote Work, and Hybrid Schedules: Managing the Shift to a Flexible Work Future
- Fatigue Crack Inspection Using Computer Vision and Augmented Reality
- A Smart IoT Proximity Alert System for Highway Work Zone Safety
• **Upcoming Projects**
  - **Consensus Study** - Transitioning Evidence-based Road Safety Research into Practice
  - **ACRP 02-103** - A Guide for Methods to Transition and Decontaminate PFAS from Firefighting Systems
  - **ACRP 04-31** - Providing Adequate and Balanced Trainer Facilities for Required and Recurrent Training for Airport Firefighters
  - **ACRP 04-34** - A Guide for Building, Maintaining, and Improving ARFF Programs
  - **ACRP 07-20** - Reducing and Managing Disruptive and Unruly Behavior in Airports
  - **ACRP 07-22** - Accommodating Cognitive and Sensory Diversity of Airport Travelers
  - **ACRP 11-01/Topic 15-02** - Legal Issues Concerning the Safety and Security of General Aviation Airports
  - **ACRP 11-01/Topic 15-03** - Legal Impacts to Airports from State Legalization of Marijuana
  - **BTSCRP BTS-24** - Multi-Solving Safety Approach - Stepping Away from Silos to Achieve a Safer System
  - **BTSCRP BTS-30** - Engaging Underserved Populations for Child Passenger Safety
  - **BTSCRP BTS-31** - Quantifying the Safety Impacts of Reduced Traffic Enforcement
  - **BTSCRP BTS-32** - Formative Research and Resources to Prevent Cannabis Impaired Driving Among Teens and Young Adults
  - **BTSCRP BTS-33** - Optimizing Parent-Teen Supervised Drives to Reduce Teen Crash Rates
  - **BTSCRP BTS-34** - Review of Behavioral Traffic Safety Efforts Undertaken by State Highway Safety Offices and Other Safety Organizations to Engage Underserved Communities
  - **NCHRP 03-143** - Framework and Toolkit for Selecting Pedestrian Crossing Treatments
  - **NCHRP 05-25** - Guide to the Contextual Application of Overhead Lighting on Highways
  - **NCHRP 05-26** - Development of Updated Warrants for Roadway Lighting
  - **NCHRP 05-27** - Guide for Lighting at Innovative Intersections/Interchanges, including Roundabouts
  - **NCHRP 07-28(02)** - Assessing the Multimodal Safety Performance of Turn Lanes
  - **NCHRP 07-31** - State DOT and Tribal Use of Active Transportation Data: Practices, Sources, Needs, and Gaps
  - **NCHRP 07-33** - Evaluate the Benefits of Increasing Clear Zone at Higher Speed/Traffic Volume/Crash Locations
  - **NCHRP 07-36** - Self-Explaining Roads in the Safe System: Addressing Target Speeds within Context
- NCHRP 08-150 - Tools to Integrate Equity into Active Transportation and Safety Investments
- NCHRP 08-163 - Defining Appropriate Design and Accommodation Thresholds for Active Transportation in a Context-Driven Approach
- NCHRP 08-166 - Racial and Socioeconomic Inequities in Active Transportation Safety
- NCHRP 08-171 - Institutionalizing the Safe Systems Approach in Transportation Planning and Programming
- NCHRP 08-177 - Digitizing Bicycle and Pedestrian Treatments for Promoting Active Transportation Equity and Safety
- NCHRP 10-117 - Design and Repair of Glass Fiber Reinforced Polymer Concrete Bridge Barriers
- NCHRP 15-79 - Development of Guidance for Non-Standard Roadside Hardware Installations
- NCHRP 15-82 - Relationship of Speed, Roadway Geometrics, and Crashes on High-Speed Rural Highways
- NCHRP 17-107 - Guide for Work Zone Intrusion Prediction and Prevention
- NCHRP 17-111 - Speed Management Strategies to Improve Pedestrian and Bicyclist Safety on Arterials and Higher-Speed Roadways
- NCHRP 17-112 - Enhancing Crash Modification Factors and Safety Performance Functions for Pedestrian and Bicyclist Countermeasures
- NCHRP 17-113 - Incorporating Safe System Approach into the NCHRP Report 500 Series
- NCHRP 17-114 - Integrated Strategies for Managing Excessive Travel Speed to Improve Safety Performance
- NCHRP 17-116 - Practical Approaches to Quantifying Safe System Concepts
- NCHRP 17-117 - Advancing Safety Prediction Methodologies for Horizontal Curves
- NCHRP 17-118 - Understanding the Impacts of Operational Changes on Safety Performance
- NCHRP 17-119 - Conflict-Based Crash Prediction Method for Intersections
- NCHRP 17-120 - A Method to Link Crash, Emergency Medical Service, and Trauma Registry Data
- NCHRP 17-121 - Using Advanced Technologies to Reduce Commercial Motor Vehicle Crashes in Work Zones
- NCHRP 17-123 - Light, Medium, and Heavy Rail and Roadway Interface Safety Performance Functions and Crash Modification Factors Development
- NCHRP 17-125 - Incorporating the Safe System Approach into Road Safety Audits
- NCHRP 17-128 - Reducing Adverse Driving Behaviors in Work Zones
- NCHRP 17-129 - Safety Performance of Complex Interchanges
- NCHRP 17-89B - Safety Performance of Part-Time Shoulder Use on Freeways
- NCHRP 20-06/Topic 27-01 - Transportation Agency Liability for Roadside Safety Hardware
- NCHRP 20-06/Topic 27-05 - Addressing Liability Issues of Proactive Safety Improvements
- NCHRP 20-102(33) - A Guide to Enhancing the Safety of Vulnerable Road Users in a CAV Future
- NCHRP 20-121A - Countering Human Trafficking: A Toolkit for State DOTs
- NCHRP 20-123(16) - Roadmap for the Transformation to Computer Simulation-Based Assessment of Bridge Railings
- NCHRP 20-123(17) - Highway Safety Manual Development and Roadmap
- NCHRP 20-130 - Incorporation of the Human Factors Guide into Transportation Agency Practices
- NCHRP 20-24(145) - Harnessing the Safe System Approach to Meaningfully Improve Traffic Safety
- NCHRP 20-44(52) - Implementing A Guidebook for Urban and Suburban Roadway Cross Section Reallocation
- NCHRP 20-44(53) - Implementing A Proposed Macro-Level Safety Planning Analysis Chapter for the Highway Safety Manual
- NCHRP 22-32A - Development of Methods to Evaluate Side Impacts – Phase II
- NCHRP 22-42A - Impact Performance Assessment of Barrier Performance at High Speeds
- NCHRP 22-47A - Incorporating Driver Behavior and Characteristics into Safety Prediction Methods
- NCHRP 22-51 - Impact of Soil Stiffness on the Performance of Crash Testing and Roadside Safety
- NCHRP 22-52 - Development of a Crashworthy Tangent End Treatment for Low-Speed Curbed Roadways
- NCHRP 22-54 - MASH Hardware Evaluation with New Proposed Test Vehicles
- NCHRP 22-57 - Procedures for Development of MASH Full-Scale Test Matrices for Additional Roadside Safety Devices
- National In-Service Performance Evaluation Guidelines for Defining Acceptable Roadside Safety Hardware
- Safety Risks of Occupant Compartment Damage During Crashes
- Development of MASH Test Procedures for Motorcycles
- Evaluation of Electrical Vehicle Compatibility with MASH Roadside Hardware
- Reduced Impact Angles with Temporary Barriers in Work Zones
- Updating Finite Element Analysis (FEA) Verification and Validation (V&V) Procedures and Reporting
- Guide on Truck Rest and Service Areas for Critical Supply Chain Delivery
- Planning for 4.9 GHz Spectrum Changes — What Transportation Agencies Need to Know
- State Customization of Highway Safety Manual Methods
- Implementation of the Federal Highway Administration (FHWA) Proven Safety Countermeasures
- Mitigation Strategies for Deterring Transit Assaults
- Floating Transit Stops and Passengers with Vision Disabilities
- Investigation and Mitigation of Insulated Joint Electrical Failure
- Lithium-Ion Battery Transit Bus Fire Prevention and Risk Management
- Update of Selected Studies in Transportation Law, Volume 5, 2014 Supplement (Transit Law)
- Improving Transit Customer Perception of Personal Security

Reports from the National Academies Press on Safety & Human Factors

- Evaluation of the Transport Airplane Risk Assessment Methodology
- Supporting Individual Risk Assessment during COVID-19
- New Approach Methods (NAMs) for Human Health Risk Assessment
- Rapid Expert Consultation on Critical Federal Capabilities Needed to Evaluate Real-World Safety, Effectiveness, and Equitable Distribution and Use of Medical Countermeasures During a Public Health Emergency
- Evaluation of the Transport Airplane Risk Assessment Methodology
- Investing in Resilient Infrastructure in the Gulf of Mexico
- Systematizing the One Health Approach in Preparedness and Response Efforts for Infectious Disease Outbreaks
- Public Health Lessons for Non-Vaccine Influenza Interventions: Looking Past COVID-19
- Policies and Practices to Minimize Police Use of Force Internationally
- Flying in the COVID-19 Era: Science-based Risk Assessments and Mitigation Strategies on the Ground and in the Air

Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic
- Safety and Operations Group
- Pedestrians, Bicycles, Human Factors
- Pedestrians
- Bicycle Transportation
- Human Factors of Vehicles
- Human Factors of Infrastructure Design and Operations
- Road User Measurement and Evaluation
- Vehicle User Education, Training, and Licensing
- Freeway Operations
- Vehicle-Highway Automation
- Managed Lanes
- Highway Capacity and Quality of Service
- Traffic Control Devices
- Section – Safety
- Transportation Safety Management Systems
- Safety Performance and Analysis
- Traffic Law Enforcement
- Committee on Occupant Protection
o ACS50 - Impairment in Transportation
o ACS60 - Truck and Bus Safety
o AEP20 - Transportation Needs of National Parks and Public Lands
o AIL10 - General Law
o AIL70 - Tort Liability and Risk Management
o AKC10 - Construction Management
o AKD10 - Performance Effects of Geometric Design
o AKD20 - Roadside Safety Design
o AKD30 - Low-Volume Roads
o AKD50 - Hydrology, Hydraulics, and Stormwater
o AKM20 - Binders for Flexible Pavement
o AKP50 - Pavement Surface Properties and Vehicle Interaction
o AKR40 - Winter Maintenance
o AKR50 - Road Weather
o AP015 - Transit Capacity and Quality of Service
o AP065 - Urban Rail Transit Systems
o AP075 - Light Rail Transit
o AP080 - Transit Safety and Security
o AR030 - Railroad Operating Technologies
o AR050 - Railroad Infrastructure Design and Maintenance
o AR070 - Rail Safety
o AR080 - Highway/Rail Grade Crossings
o AV090 - Aviation Safety, Security and Emergency Management
o AW040 - Marine Safety and Human Factors

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

**Policy Study**
- B0175 - Emerging Trends in Aviation Safety
- B1081 - Impacts of Alternative Compensation Methods on Commercial Motor Vehicle Driver Retention and Safety Performance

**CRP Panels**
- D0362 - Guidelines for Accessible Pedestrian Signals (APS)
- D0525 - Safety Performance of LED and Variable Lighting Systems
- D0728 - Assessing the Impacts of Turn Lanes in Different Contexts and Modal Considerations to Increase Safety Performance
- D0815 - Valuation of Transportation Equity in Active Transportation and Safety Investments
- D1574 - Safety Evaluation of On-Street Bicycle Facility Design Features
- D1582 - Effects of Operating Speed and Posted Speed Limit in Conjunction with Roadway Geometric Design on Safety Performance for High-Speed Rural Highways and Freeway
- D1762 - Improved Prediction Models for Crash Types and Crash Services
- D1776 - Understanding the Relationship between Operating, Posted, and Design Speeds and Safety in the Setting of Speed Limits
- D1789 - Safety Performance of Part-Time Shoulder Use on Freeways
- D1792 - Developing Safety Performance Functions for Rural Two-Lane Highways that Incorporate Speed Measures
- D1793 - Updating Safety Performance Functions for Data-Driven Safety Analysis
- D1797 - Strategies to Improve Pedestrian Safety at Night
- D2232 - Development of Methods to Evaluate Side Impacts with Roadside Safety Features
- D2247 - Incorporating Driver Behavior Considerations in Safety Prediction Methods
- D2257 - Development of MASH Full-Scale Test Matrices for Additional Roadside Safety Devices
- D2259 - Safety Risks of Occupant Compartment Damage During Crashes
- D03142 - Evaluating the Impacts of Real-Time Warnings and Variable Speed Limits on Safety and Travel Reliability during Weather Events
- D08150 - Valuation of Transportation Equity in Active Transportation and Safety Investments
- D08166 - Racial and Economic Disparities in Pedestrian and Bicyclist Safety
- Institutionalizing the Safe System Approach in Transportation Planning and Programming
- NCHRP Project Panel on Digitizing Bicycle and Pedestrian Treatments for Promoting Active Transportation Equity and Safety
- Developing Performance and Safety Specifications for Rejuvenating Seals
- Leveraging Big Data and Artificial Intelligence to Streamline Safety Data Analyses
- Safety Performance for Active Transportation Modes using Exposure Models
- Developing Multidisciplinary Safety Strategies from Understanding Roadway Fatality Trends During the New Millennium
- Motorist Behavior and Safety Impacts on Bicyclists from Centerline and Shoulder Rumble Strips on High-Speed Two-Lane Highways
- Template for Gathering and Disseminating Telemetric Data for Safety and Operational Uses by State DOTs (Phase 1: State of the Practice Survey and Synthesis)
- Speed Management Solutions and Strategies to Improve Pedestrian and Bicyclist Safety on Arterial Roadways
- Enhancing Highway Safety Manual Guidance on Pedestrian and Bicyclist Countermeasures (CMF/SPF Development)
- Pedestrian Crosswalk Spacing and Placement Guidance to Improve Safety
- Safety Performance Functions for Horizontal Curves
- Understanding the Impacts of Operational Changes on Safety Performance
- Improved Method to Link Crash, Emergency Medical Service, and Trauma Registry Data
- NCHRP Project Panel on Light, Medium, and Heavy Rail and Roadway Interface Safety Performance Functions and Crash Modification Factors Development
- Incorporating the Safe System Approach into Road Safety Audits
- Employee Safety during COVID-19
- Reducing Risks to Worker Safety in Work Zones Due to Distracted Drivers
- Readiness and Effectiveness of Freeway-Based Corridor V2X Applications for Improving Congestion and Safety
- Safety of Vulnerable Road Users in a C/AV Future
- Highway Safety Manual Development and Research Roadmap
- Harnessing the Safe System Approach to Meaningfully Improve Traffic Safety
- Peer Exchange and Research to Identify Best Practices for Testing, Monitoring and Deployment of Automated Transportation Solutions to Support Safety, Equity and Operational Efficiency
- Collecting and Sharing Airport Safety and Operational Data
- Identifying Congestion and Safety Risks Due to Heterogeneous Airport Curbside Activity and Remedial Solutions
- Guide for MPO and HSO Coordination on Behavioral Traffic Safety Countermeasures
- Developing On-road Driver Skills Test and Scoring Guidance for Measuring and Predicting High Safety Risk Drivers
- Objectives, Components, and Measures of Effective Traffic Safety Public Awareness and Education Efforts
- Moped and Motor Scooter (50 cc or less) Safety: Issues and Countermeasures
- Assessing and Mitigating Racial Disparities in the Enforcement of Pedestrian, Bicycle, and Micromobility Traffic-Related Laws
- Guidelines for Selecting Communication Channels to Deliver Traffic Safety Messaging
- Multi-Solving Safety Approach - Stepping Away from Silos to Achieve a Safer System
- Engaging Underserved Populations for Child Passenger Safety
- Quantifying the Safety Impacts of Reduced Traffic Enforcement
- Review of Behavioral Traffic Safety Efforts Undertaken by State Highway Safety Offices and Other Safety Organizations to Engage Underserved Communities
- Rail Safety Innovations Deserving Exploratory Analysis (IDEA) Program Committee
- DOT Practices on Road Safety Audits
- State Customization of Highway Safety Manual Methods
Recent and Upcoming Events

Upcoming TRB Conferences – Use left hand menu to filter events

2nd International Roadside Safety Conference
June 23-28, 2024
Orlando, FL

Upcoming Events/Webinars – In the Upcoming Events tab under Types, choose what event you are interested in, search titles by keyword

TRB Webinar: Societal Perceptions of Impaired Driving and Strategies for Law Enforcement
October 3, 2023

Past Events - In the Past Events tab under Types, choose what event you are interested in, search titles by keyword

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

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

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- Literature searches
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