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- 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](http://www.trb.org/SafetyHumanFactors)

**Specialty Report**

- [COVID-19 Addendum to Critical Issues in Transportation](http://www.trb.org/COVID19CriticalIssues)
- [Racial Equity Addendum to Critical Issues in Transportation](http://www.trb.org/RacialEquityCriticalIssues)

**Recent Reports & Publications**

- [Airport Cooperative Research Program (ACRP)](http://www.trb.org/ACRP)
  - Report 233 - Airport Biometrics: A Primer
  - Report 229 - Airport Collaborative Decision Making (ACDM) to Manage Adverse Conditions
  - Synthesis 115 - Practices in Airport Emergency Plans

  - Report 1 - Using Electronic Devices While Driving: Legislation and Enforcement Implications

- [IDEA Safety Program](http://www.trb.org/IDEA)
  - 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

- [National Cooperative Highway Research Program (NCHRP)](http://www.trb.org/NCHRP)
  - NCHRP 20-113F - Topical White Papers for the TRB Forum on Automated Vehicles and Shared Mobility
  - NCHRP 20-44(13) - Implementation of NCHRP Research Report 893: The Oregon DOT Statewide Pedestrian and Bicycle Plan
  - NCHRP 20-07/Task 368 - Development of a Roadmap for Use of SHRP2 Safety Data to Enhance Existing Publications
  - IDEA Report 214 - An Enhanced Network-Level Curve Safety Assessment and Monitoring Using Mobile Devices
  - IDEA Report 212 - Non-Gating Guardrail Terminal
  - IDEA Report 203 - SaferCushion
  - Report 992 - Guide to Pedestrian Analysis
  - Report 991 - Guidelines for the Development and Application of Crash Modification Factors
- Reliability of Crash Prediction Models: A Guide for Quantifying and Improving the Reliability of Model Results
- Guidelines for Quantifying Benefits of Traffic Incident Management Strategies
- Application of Crash Modification Factors for Access Management, Volume 2: Research Overview
- Posted Speed Limit Setting Procedure and Tool: User Guide
- LED Roadway Lighting: Impact on Driver Sleep Health and Alertness
- Guide for Pedestrian and Bicyclist Safety at Alternative and Other Intersections and Interchanges
- Guidelines for Integrating Safety and Cost-Effectiveness into Resurfacing, Restoration, and Rehabilitation (3R) Projects
- Lighting Practices for Isolated Rural Intersections
- Temporary Pavement Markings Placement and Removal Practices in Work Zones
- Load Rating of Bridges and Culverts with Missing or Incomplete As-Built Information
- Roadside Safety Analysis Program (RSAP) Update
- Safety Prediction Models for Six-Lane and One-Way Urban and Suburban Arterials
- Human Factors Guidelines for Road Systems 2021 Update, Volume 1: Updated and New Chapters
- Enhancing Pedestrian Volume Estimation and Developing HCM Pedestrian Methodologies for Safe and Sustainable Communities
- Safety Performance of Part-Time Shoulder Use on Freeways, Volume 2: Conduct of Research Report
- Safety Prediction Methodology and Analysis Tool for Freeways and Interchanges
- Criteria for Restoration of Longitudinal Barriers, Phase II
- Understanding and Communicating Reliability of Crash Prediction Models
- Development of a Comprehensive Approach for Serious Traffic Crash Injury Measurement and Reporting Systems
- Guidance to Predict and Mitigate Dynamic Hydroplaning on Roadways
- Guidelines for Cost-Effective Safety Treatments of Roadside Ditches
- Improved Prediction Models for Crash Types and Crash Severities
- Roadside Hardware Replacement Analysis: User Guide
- Development of a Posted Speed Limit Setting Procedure and Tool

- Strengthening U.S. Coast Guard Oversight and Support of Recognized Organizations: The Case of the Alternative Compliance Program
- Options for Improving the Safety of DUKW Type Amphibious Vessels
- Technical Feasibility of a Wheelchair Securement Concept for Airline Travel: A Preliminary Assessment
- Preparing for LNG by Rail Tank Car: A Review of a U.S. DOT Safety Research, Testing, and Analysis Initiative
- Modernizing the U.S. Offshore Oil and Gas Inspection Program for Increased Agility and Safety Vigilance

- Evaluation of an Automatic, Individual Computer-Based Driver Education and Training Program
- Measuring and Managing Fare Evasion
- Strategies for Deterring Trespassing on Rail Transit and Commuter Rail Rights-of-Way, Volume 1: Guidebook
- Strategies for Deterring Trespassing on Rail Transit and Commuter Rail Rights-of-Way, Volume 2: Research Overview
- Assessing and Mitigating Electrical Fires on Transit Vehicles
- Transit Safety Risk Assessment Methodologies

- Insights, Inclusion, and Impact: Framing the Future for Women in Transportation
Current & Upcoming Projects

- **Current Projects**
  - ACRP 01-41 - Airport Blockchain Implementation Guidebook
  - ACRP 01-44 - Airport Insurance Requirements
  - 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 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 04-24 - Guidelines to Develop an Anti-Human Trafficking Action Plan for Airports
  - ACRP 04-25 - Airports and Communicable Diseases—Preparedness and Response
  - ACRP 04-27 - Alternative Methods to Manage Tree Growth Near Airports
  - ACRP 04-28 - Developing Alternative Aircraft Arresting Systems
  - ACRP 08-03 - Construction Safety and Phasing Plans
  - ACRP 10-29 - Aircraft Jet Blast Estimation Tool
  - ACRP 10-30 - Evaluating the Effectiveness of an Airport’s Wildlife Hazard Management Program
  - ACRP 11-01/Topic 14-01 - Legal Considerations for Airports Responding to Pandemics
  - ACRP 11-02/Task 41 - Toward a Touchless Airport Journey
  - ACRP Synthesis 11-03/Topic S06-07 - Evolution of Airport Work Models and Strategies
  - ACRP Synthesis 11-03/Topic S10-17 - Agricultural Operations on Airport Grounds
  - BTS/CRP BTS-01 - Guidance for Employer-Based Behavioral Traffic Safety Programs for Drivers in the Workplace
  - BTS/CRP BTS-04 - Tracking State Traffic Citation and Adjudication Outcomes
  - BTS/CRP BTS-06 - MPO and SHSO Coordination on Behavioral Traffic Safety
  - BTS/CRP BTS-08 - Use of SHRP2 Naturalistic Driving Study Database to Improve Teen Driving Safety: Phase 1 Proof of Concept
  - BTS/CRP BTS-09 - The Influence of Infrastructure Design on Distracted Driving
  - BTS/CRP BTS-10 - E-Scooter Safety: Issues and Solutions
  - BTS/CRP BTS-11 - Ensuring Child Safety in New Travel Modes
  - BTS/CRP BTS-12 - State Practices Promoting Older Driver Safety
  - BTS/CRP BTS-13 - Communicating Safe Behavior Practices to Vulnerable Road Users
  - BTS/CRP BTS-15 - Highway Safety Strategies for Rural Communities
  - BTS/CRP BTS-16 - Developing On-road Driver Skills Test and Scoring Guidance for Measuring and Predicting High Safety Risk Drivers
  - BTS/CRP BTS-19 - Improving Moped and Seated Motor Scooter (50 cc or less) Rider Safety
  - NCHRP 03-119 - Application of MASH Test Criteria to Breakaway Sign and Luminaire Supports and Crashworthy Work-Zone Traffic Control Devices
  - NCHRP 03-130 - Guide for Roundabouts
  - NCHRP 03-132 - Guidance for Safe and Effective Temporary Traffic Control for Mobile Operations on Two-Lane Two-Way Roadways
  - NCHRP 03-133 - Traffic Signal Design and Operations Strategies for Non-Motorized Users
  - NCHRP 03-134 - Determination of Encroachment Conditions in Work Zones
  - NCHRP 03-135 - Wrong-Way Driving Solutions, Policy, and Guidance
  - NCHRP 03-139 - Next Generation of the U.SLIMITS2 Speed Limit Setting Expert System
  - NCHRP 03-141 - Guidance on Midblock Pedestrian Signals (MPS)
  - NCHRP 05-24 - Guidelines for Vehicle and Equipment Color, Marking, and Lighting
  - NCHRP 10-109 - Modern Solutions to Safe and Efficient Work Zone Travel
  - NCHRP 08-139 - Guide for Preventing and Mitigating the Risk of Bridge and Tunnel Strikes by Motor Vehicles
  - NCHRP 15-66 - Operational Performance and Safety Effects of Arterial Weaving Sections
  - NCHRP 15-68 - Effective Low-Noise Rumble Strips
  - NCHRP 15-73 - Design Options to Reduce Turning Motor Vehicle–Bicycle Conflicts at Intersections
  - NCHRP 15-74 - Safety Evaluation of On-Street Bicycle Facility Design Features
  - NCHRP 15-78 - Guidebook for Urban and Suburban Roadway Cross-Sectional Reallocation
  - NCHRP 17-11-02(2) - Development of Clear Recovery Area Guidelines
  - NCHRP 17-43 - Long-Term Roadside Crash Data Collection Program
  - NCHRP 17-46 - Comprehensive Analysis Framework for Safety Investment Decisions
  - NCHRP 17-60 - Benefit-Cost Methodology for Behavioral Highway Safety Countermeasures
  - NCHRP 17-66 - Guidance for Selection of Appropriate Countermeasures for Opposite Direction Crashes
  - NCHRP 17-67 - Identification of Factors Contributing to the Decline of Traffic Fatalities in the United States
- Update of Crash Modification Factors for the Highway Safety Manual
- NCHRP 17-79 - Safety Effects of Raising Speed Limits to 75 mph and Higher
- NCHRP 17-82 - Proposed Guidance for Fixed Objects in the Roadside Design Guide
- NCHRP 17-84 - Pedestrian and Bicycle Safety Performance Functions for the Highway Safety Manual
- NCHRP 17-86 - Estimating Effectiveness of Safety Treatments in the Absence of Crash Data
- NCHRP 17-88 - Roadside Encroachment Database Development and Analysis
- NCHRP 17-90 - Evaluation of Roadside Crash Injury Metrics in MASH
- NCHRP 17-91 - Assessing the Impacts of Connected, Automated and Autonomous Vehicles on the Future of Transportation Safety
- NCHRP 17-92 - Developing Safety Performance Functions for Rural Two-Lane Highways that Incorporate Speed Measures
- NCHRP 17-93 - Crash Modification Factors for Intelligent Transportation Systems (ITS) Applications
- NCHRP 17-96 - Traffic Safety Culture Research Roadmap
- NCHRP 20-07/Task 358 - Reducing Risks to Worker Safety in Work Zones Due to Distracted Drivers
- NCHRP 20-102(16) - Impacts of Connected, Automated Vehicle Technologies on Traffic Incident Management Response
- NCHRP 20-121 - State DOT Contributions to the Study, Investigation, and Interdiction of Human Trafficking
- NCHRP 20-124 - Deploying Transportation Security Practices in State DOTs
- NCHRP 22-29B - Evaluating the Performance of Longitudinal Barriers on Curved, Superelevated Off-Ramps
- NCHRP 22-33 - Multi-State In-Service Performance Evaluations of Roadside Safety Hardware
- NCHRP 22-34 - Determination of Zone of Intrusion Envelopes under MASH Impact Conditions for Barrier Attachments
- NCHRP 22-35 - Evaluation of Bridge Rail Systems to Confirm AASHTO MASH Compliance
- NCHRP 22-37 - Development of a Barrier Design to Accommodate Vehicles, Pedestrians, and Cyclists
- NCHRP 22-38 - Development of MASH TL-3 Deflection Reduction Guidance for 31-inch Guardrail
- NCHRP 22-39 - Guardrail Performance at Various Offsets from Curb MASH TL-3 Applications
- NCHRP 22-40 - Update to AASHTO M 180-18 and Associated Highway Guardrail Specifications
- NCHRP 22-43 - Proposed AASHTO Guidelines for Implementation of MASH for Sign Supports, Breakaway Poles, and Work Zone Traffic Control Devices
- NCHRP 22-44 - A Transportation Agency Data Collection Practice for Use with In-Service Performance Evaluations (ISPEs)
- NCHRP 22-45 - Understanding and Analyzing Crash Contributing Factors
- NCHRP 22-47 - Incorporating Driver Behavior and Characteristics into Safety Prediction Methods
- NCHRP 22-48 - Development of Crash Prediction Models for Short-Term Durations
- NCHRP 22-49 - The Effect of Vehicle Mix on Crash Frequency and Crash Severity
- NCHRP 23-05 - Guidance for Training and Certification of Construction Inspectors for Transportation Infrastructure
- NCHRP 23-09 - Scoping Study to Develop the Basis for a Highway Standard to Conduct an All-Hazards Risk and Resilience Analysis
- NCHRP IDEA 20-30/IDEA 206 - From Location Tracking to Continuous Interpretation: Rule-Based Automated Safety Work Zone Safety
- NCHRP IDEA 20-30/IDEA 217 - A Real-Time Proactive Intersection Safety Monitoring and Visualization System Based on Radar Sensor Data
- NCHRP IDEA 20-30/IDEA 223 - Fatigue Crack Inspection Using Computer Vision and Augmented Reality
- NCHRP IDEA 20-30/IDEA 226 - A Smart IoT Proximity Alert System for Highway Work Zone Safety
- NCHRP IDEA 20-30/IDEA 228 - A Retroreflective Road Lane Marking Tape 1,000X Brighter Than Existing Technology
- NCHRP Synthesis 20-05/Topic 52-01 - Highway Infrastructure Inspection Practices for the Digital Age
- NCHRP Synthesis 20-05/Topic 52-08 - Practices for Balancing Safety Investments in a Comprehensive Safety Program
- NCHRP Synthesis 20-05/Topic 52-09 - Use of Safety Management Systems in Managing Highway Maintenance Worker Safety
- NCHRP Synthesis 20-05/Topic 52-11 - Use of Smart Work Zone Technologies for Improving Work Zone Safety
- Practices to Motivate Safe Behaviors with Highway Construction and Maintenance Crews
- Identifying the Current Practice of Contrast Pavement Markings by Departments of Transportation
- Critical Findings for Tunnel Functional Systems
- Onboard High-Bandwidth Fiber Optic Sensing System for Broken Rail Detection
- Augmenting Reality for Safer Inspections of Railroad Infrastructure and Operations
- Laser-based Non-destructive Spike Defect Inspection System
- Development of a Fatigue Load for Railway Bridges
- Tactile Wayfinding in Transportation Settings for Travelers Who Are Blind or Visually Impaired
- Assessing Lifecycle and Human Costs of Bus Operator Workstation Design and Components
- Codes of Conduct on Transit Vehicles and Property: Legal Issues
- Transit Safety Risk Assessment Methodologies
- Assessing Equity and Identifying Impacts Associated with Bus Network Redesigns
- Pedestrian and Bicycle Safety in Bus/BRT Corridors
- Safety Assessment of the Interaction Between the Autonomous Shuttle Bus and Vulnerable Road Users

- Upcoming Projects
  - Human Factors in Airport Operations
  - Guidance for Small Airports on Safe Maintenance of Airfield Electrical Systems
  - Understanding and Analyzing Crash Contributing Factors (Joint project with NCHRP 22-45)
  - Determining the Effectiveness of Combined High Visibility Enforcement (HVE)
  - Objectives, Components, and Measures of Effective Traffic Safety Public Awareness and Education Efforts
  - Strategies to Address Misreporting of Impaired and Distracted Driving in Motor Vehicle Crashes
  - 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
  - Evaluating the Impacts of Real-Time Warnings and Variable Speed Limits on Safety and Travel Reliability during Weather Events
  - Guide to the Contextual Application of Overhead Lighting on Highways
  - Development of Guidance for Non-Standard Roadside Hardware Installations
  - Strategies to Improve Pedestrian Safety at Night
  - Safety Effectiveness Assessment of Advanced Highway-Rail Grade Crossing Improvements
  - 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
  - Safety of Vulnerable Road Users in a CAV Future
  - Countering Human Trafficking: A Toolkit for State DOTs
  - Guidebook for Addressing Encampments on State Transportation Rights-of-Way
  - Development of Methods to Evaluate Side Impacts for Next Edition MASH
  - Impact Performance Assessment of Barrier Performance at High Speeds
  - Crashworthiness of Roadside Hardware on Curbed Roadways
  - Evaluation of MASH 2016 Soil Specifications and Procedures
  - 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
- NCHRP 23-13 - Transportation Research Related to COVID-19
- NCHRP 23-13(01) - Telecommuting, Remote Work, and Hybrid Schedules: Managing the Shift to a Flexible Work Future
- NCHRP 23-13(02) - Employee Safety during COVID-19
- NCHRP 23-13(03) - Guide on Truck Rest and Service Areas for Critical Supply Chain Delivery
- NCHRP 23-28 - Changes to 4.9 Ghz Spectrum Access and Authorization – What You Need to Know
- NCHRP 20-123(16) - Support for AASHTO Committees and Councils
- NCHRP 20-123(17) - Highway Safety Manual Development and Research Roadmap
- TCRP A-48 - Mitigation Strategies for Deterring Transit Assaults
- TCRP C-25 - Bus Operator Barrier Design
- TCRP D-19 - Detecting and mitigating low level DC fault currents in transit systems thus eliminating electrical fires in tunnels and rights-of-way
- TCRP E-13 - COVID-19 and Transit Air Quality Protections (Insight Event)
- TCRP E-14 - Electric Bus Fire Prevention and Risk Management
- TCRP F-30 - Guide for Protecting Transportation Employees and the Traveling Public from Airborne Diseases
- TCRP I-11/Task 43 - Analysis of Public Transportation Health Impacts and Benefits

Reports from the National Academies Press on Safety & Human Factors

- Flying in the COVID-19 Era: Science-based Risk Assessments and Mitigation Strategies on the Ground and in the Air
- Community Safety and Policing
- Offshore Situation Room - Enhancing Resilience to Offshore Oil Disasters in the Gulf of Mexico
- Emergency Evacuation and Sheltering During the COVID-19 Pandemic
- Looking Ahead at the Cybersecurity Workforce at the Federal Aviation Administration
- Current Issues in the Assessment of Respiratory Protective Devices for Occupational and Non-Occupational Uses

Committees & Panels

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TRB Standing Committees – Search by transportation mode and committee topic

- ACH00 – Section - Pedestrians, Bicycles, Human Factors
- ACH10 – Pedestrians
- ACH20 – Bicycle Transportation
- ACH30 – Human Factors of Vehicles
- ACH40 – Human Factors of Infrastructure Design and Operations
- ACH50 – Road User Measurement and Evaluation
- ACH60 – Vehicle User Education, Training, and Licensing
- ACS10 – Transportation Safety Management
- ACS20 – Safety Performance Analysis
- ACS30 – Traffic Law Enforcement
- ACS40 – Occupant Protection
- ACS50 – Impaired in Transportation
- ACS60 – Truck and Bus Safety
- AJL70 – Tort Liability and Risk Management
- AKD20 – Roadside Safety Design
- AKD80 – Roundabouts and other Intersection Design and Control Strategies
- AME50 – Accessible Transportation and Mobility
- AP050 – Bus Transit Systems
- AR070 – Rail Safety
- AR080 – Highway/Rail Grade Crossings
- AT040 – Transportation of Hazardous Materials
- AV090 – Aviation Security and Emergency Management
- AV095 – New Users of Shared Airspace
- AW040 – Marine Safety and Human Factors

Task Forces - Search for task force under committee here

Policy Study

- B0158 - Truck Size and Weight Limits Research Plan Committee
- B0163 - Revise and Update the U.S. Coast Guard Vessel Stability Regulations
- B0173 - U.S. Coast Guard Oversight of Recognized Organizations
- B0174 - Options for Improving the Safety of Amphibious Vessels (DUKW boats) When Used in Passenger Service
CRP Panels
  o Project Panels Related to Safety & Human Factors

Councils
  o 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.)

  International Conference on Roundabouts  
  May 15, 2022  
  Monterey, CA

  Research Day at ITF Annual Summit*  
  May 17, 2022  
  Leipzig, Germany

  18th Biennial National Harbor Safety Committee Conference  
  June 13, 2022  
  Boston, MA

  13th Access Management Conference  
  July 1, 2022  
  Online

  International Conference on Bridge Maintenance, Safety, and Management (IABMAS2022)*  
  July 11, 2022  
  Barcelona, Spain

  Automated Road Transportation Symposium  
  July 18, 2022  
  Garden Grove, CA

  Tools of the Trade Conference  
  August 29, 2022  
  Boise, ID

  International Conference of International Society for Intelligent Construction*  
  September 6, 2022  
  Guimaraes, Portugal

  TRANSED: Mobility, Accessibility, and Demand Response Transportation Conference  
  September 12-16, 2022  
  Online

  TRB Scenario Planning Conference  
  September 19, 2022  
  Washington, DC

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

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  • Reference and research assistance
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
- **Research Needs Statements (RNS)** – [rns.trb.org](http://rns.trb.org) - Research needs as identified by TRB Technical Activities standing committees
- **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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