



TRANSPORTATION RESEARCH BOARD

Operations and Traffic Management Overview

TRB at a Glance

The mission of the Transportation Research Board (TRB) is to provide leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal.

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.

More info at www.trb.org

TRB's Transportation Research Information Services (TRIS)

TRIS includes the TRB Library and the TRIS Databases (listed below) which are available for 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

Practice Ready Papers (PRP) Database - Papers with information that is ready for immediate implementation or requires minimal additional research or implementation effort.
prp.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

More information about TRIS is available online at: <http://www.trb.org/InformationServices/InformationServices.aspx>
Contact the Library at TRBLibrary@nas.edu or 1 (202) 334-2989

Upcoming Events

- Conferences (co-sponsored by TRB):
 - June 2, 2016 New York, New York **2016 Ferry Safety and Technology Conference**
 - June 14-16, 2016 **2016 International Symposium on Enhancing Highway Performance: 7th International Symposium on Highway Capacity and Quality of Service; 3rd International Symposium on Freeway and Tollway Operations**

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- June 26, 2016 Houston, Texas **American Society of Civil Engineers (ASCE) 2016 International Conference on Transportation and Development**
- July 6, 2016 Pretoria, South Africa **3rd International Conference on Access Management**
- August 14, 2016 Portland, Oregon **Use of Scenario Planning in Transportation Planning**
- May 8, 2017 Green Bay, Wisconsin **5th International Conference on Roundabouts**

- **Webinars:**

- April 19, 2016 **Estimating the Life-Cycle Cost of Intersection Designs**
- April 20, 2016 **Wrong Way Driving: What We Know, What We Are Doing, and Where Are We Going**
- May 3, 2016 **Roundabout Construction Plans and Specifications – Development and Application of Practices**
- June 2, 2016 **Impact of Mega Events on Urban Growth through Sustainable Transportation Solutions**

View TRB webinars here: <http://www.trb.org/ElectronicSessions/ConferenceRecordings.aspx>

Technical Committees

- **Standing Committees:**

- Geometric Design (AFB10)
- Operations and Preservation Group (AH000)
- Section – Operations (AHB00)
- Regional Transportation Systems Management and Operations (AHB10)
- Intelligent Transportation Systems (AHB15)
- Freeway Operations (AHB20)
- Traffic Signal Systems (AHB25)
- Vehicle-Highway Automation (AHB30)
- Managed Lanes (AHB35)
- Highway Capacity and Quality of Service (AHB40)
- Traffic Flow Theory and Characteristics (AHB45)
- Traffic Control Devices (AHB50)
- Work Zone Traffic Control (AHB55)
- Highway/Rail Grade Crossings (AHB60)
- Operational Effects of Geometrics (AHB65)
- Access Management (AHB70)
- Maintenance and Operations Management (AHD10)
- Maintenance and Operations Personnel (AHD15)
- Signing and Marking Materials (AHD55)
- Roundabouts (ANB75)

- **Policy Study Committees:**

- Research and Technology Coordinating Committee (FHWA) (B0024)

- **Council:**

- Young Member Council (A0040T)

To become Friend of any committee visit MyTRB.org

Cooperative Research Program (CRP)

- **Recent Reports**

- ACRP Report, Issue 148 - LED Airfield Lighting System Operation and Maintenance.
- ACRP Report, Issue 145 - Applying an SMS Approach to Wildlife Hazard Management.
- ACRP Report, Issue 123 - A Guidebook for Airport Winter Operations.
- ACRP Report, Issue 114 - Guidebook for Through-the-Fence Operations.

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- ACRP Report, Issue 110 - Evaluating Impacts of Sustainability Practices on Airport Operations and Maintenance: User's Guide and Research Report.
- ACRP Report, Issue 106 - Being Prepared for IROPS: A Business-Planning and Decision-Making Approach.
- ACRP Report, Issue 104 - Defining and Measuring Aircraft Delay and Airport Capacity Thresholds.
- ACRP Report, Issue 94 - Integrating Web-Based Emergency Management Collaboration Software into Airport Operations--A Primer.
- ACRP Report, Issue 93 - Operational and Business Continuity Planning for Prolonged Airport Disruptions.
- ACRP Report, Issue 92 - Guidebook to Creating a Collaborative Environment Between Airport Operations and Maintenance.
- ACRP Report, Issue 82 - Preparing Peak Period and Operational Profiles—Guidebook.
- ACRP Report, Issue 79 - Evaluating Airfield Capacity.
- ACRP Report, Issue 65 - Guidebook for Airport Irregular Operations (IROPS) Contingency Planning.

- TCRP Report, Issue 183 - A Guidebook on Transit-Supportive Roadway Strategies.
- TCRP Report, Issue 175 - Guidebook on Pedestrian Crossings of Public Transit Rail Services.
- TCRP Report, Issue 165 - Transit Capacity and Quality of Service Manual. Third Edition.
- TCRP Report, Issue 95 - Traveler Response to Transportation System Changes. Chapter 16 - Pedestrian and Bicycle Facilities.
- TCRP Report, Issue 95 - Traveler Response to Transportation System Changes. Chapter 1 - Introduction.

- NCHRP Report, Issue 812 - Signal Timing Manual.
- NCHRP Report, Issue 797 - Guidebook on Pedestrian and Bicycle Volume Data Collection.
- NCHRP Report, Issue 780 - Design Guidance for Intersection Auxiliary Lanes.
- NCHRP Report, Issue 774 - Superelevation Criteria for Sharp Horizontal Curves on Steep Grades.
- NCHRP Report, Issue 772 - Evaluating the Performance of Corridors with Roundabouts.
- NCHRP Report, Issue 765 - Analytical Travel Forecasting Approaches for Project-Level Planning and Design.
- NCHRP Report, Issue 760 - Improving the Quality of Motorcycle Travel Data Collection.
- NCHRP Report, Issue 759 - Effective Removal of Pavement Markings.
- NCHRP Report, Issue 746 - Traffic Enforcement Strategies for Work Zones.
- NCHRP Report, Issue 745 - Left-Turn Accommodations at Unsignalized Intersections.
- NCHRP Report, Issue 737 - Design Guidance for High-Speed to Low-Speed Transition Zones for Rural Highways.
- NCHRP Report, Issue 731 - Guidelines for Timing Yellow and All-Red Intervals at Signalized Intersections.
- NCHRP Report, Issue 729 - Automated Enforcement for Speeding and Red Light Running.
- NCHRP Report, Issue 716 - Travel Demand Forecasting: Parameters and Techniques.
- NCHRP Report, Issue 693 - Attracting, Recruiting, and Retaining Skilled Staff for Transportation System Operations and Management.
- NCHRP Report, Issue 600 - Human Factors Guidelines for Road Systems, Second Edition.

- NCHRP Synthesis of Highway Practice, Issue 487 - Public Perception of Mileage-Based User Fees.
- NCHRP Synthesis of Highway Practice, Issue 486 - State Practices for Local Road Safety.
- NCHRP Synthesis of Highway Practice, Issue 485 - Converting Paved Roads to Unpaved.
- NCHRP Synthesis of Highway Practice, Issue 482 - Work Zone Speed Management.
- NCHRP Synthesis of Highway Practice, Issue 460 - Sharing Operations Data Among Agencies.
- NCHRP Synthesis of Highway Practice, Issue 447 - Active Traffic Management for Arterials.
- NCHRP Synthesis of Highway Practice, Issue 431 - Practices to Manage Traffic Sign Retroreflectivity.

- NCHRP Web Document, Issue 213 - Potential MUTCD Criteria for Selecting the Type of Control for Unsignalized Intersections.
- NCHRP Web Document, Issue 207 - Evaluation of the Flashing Yellow Arrow (FYA) Permissive Left-Turn in Shared Yellow Signal Sections.
- NCHRP Web Document, Issue 208 - Design Guidance for Channelized Right-Turn Lanes.
- NCHRP Web Document, Issue 205 - Methods and Technologies for Pedestrian and Bicycle Volume Data

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Collection.

- NCHRP Web Document, Issue 204 - Crash Experience Warrant for Traffic Signals.
- NCHRP Web Document, Issue 202 - Operation of Traffic Signal Systems in Oversaturated Conditions, Volume 2: Final Report.
- NCHRP Web Document, Issue 202 - Operation of Traffic Signal Systems in Oversaturated Conditions, Volume 1: Practitioner Guidance.
- NCHRP Web Document, Issue 191 - Analysis of Managed Lanes on Freeway Facilities.
- NCHRP Web Document, Issue 182 - Appendices to NCHRP Report 693.
- NCHRP Web Document, Issue 178 - Assessment of Auxiliary Through Lanes at Signalized Intersections.

- Transportation Research E-Circular, Issue E-C195 - Traffic and Transportation Simulation. Looking Back and Looking Ahead: Celebrating 50 Years of Traffic Flow Theory, a Workshop.
- Transportation Research E-Circular, Issue E-C190 - Innovative Applications of the Highway Capacity Manual 2010.
- Transportation Research E-Circular, Issue E-C187 - Developing Freight Fluidity Performance Measures: Supply Chain Perspective on Freight System Performance. Summary of a Workshop, May 21-22, 2014, Washington, D.C..
- Transportation Research E-Circular, Issue E-C183 - Monitoring Bicyclist and Pedestrian Travel and Behavior: Current Research and Practice.
- Transportation Research E-Circular, Issue E-C166 - Glossary for Regional Transportation Systems Management and Operations Terms: Second Edition.
- Transportation Research E-Circular, Issue E-C159 - Teamwork in U.S. Railroad Operations: A Conference, April 23-24, 2009, Irvine, California.
- Transportation Research E-Circular, Issue E-C153 - Dynamic Traffic Assignment: A Primer.
- Transportation Research E-Circular, Issue E-C150 - Advancing Regional Transportation Operations: A National Workshop, December 10-12, 2008, Washington, D.C..
- Transportation Research E-Circular, Issue E-C149 - 75 Years of the Fundamental Diagram for Traffic Flow Theory: Greenshields Symposium.

- NCFRP Report, Issue 34 - Evaluating Alternatives for Landside Transport of Ocean Containers.
- NCFRP Report, Issue 33 - Improving Freight System Performance in Metropolitan Areas: A Planning Guide.

- ACRP Impacts on Practice, Issue 9 - Contingency Planning for Unexpected Passenger Delays.
- ACRP Impacts on Practice - Standardizing Airport Incident Management Practices.
- ACRP Impacts on Practice - Improving Airport Curbside and Roadway Operations.
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- TCRP Web Document, Issue 63 - Treatments Used at Pedestrian Crossings of Public Transit Rail Services.
- TCRP Web Document, Issue 62 - Standardizing Data for Mobility Management.
- TCRP Web Document, Issue 53 - Operation of Light Rail Transit through Ungated Crossings at Speeds over 35 MPH.

- TCRP Synthesis of Transit Practice, Issue 117 - Better On-Street Bus Stops.
- TCRP Synthesis of Transit Practice, Issue 110 - Commonsense Approaches for Improving Transit Bus Speeds.
- TCRP Synthesis of Transit Practice, Issue 109 - System-Specific Spare Bus Ratios Update.

- NCHRP-IDEA Program Project Final Report - Development of a Sensing Methodology for Intelligent and Reliable Work-Zone Hazard Awareness.
- NCHRP-IDEA Program Project Final Report - Advanced Methods for Mobile Retroreflectivity Measurement of Pavement Marking.
- NCHRP IDEA Program: Products with an Impact or Potential Impact on Current Highway Practice: Notable Examples.

- TRANSIT-IDEA Program Project Final Report - A Context Aware Transit Navigator.

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- TRANSIT-IDEA Program Project Final Report - Improving Bus Transit On-Time Performance through the Use of AVL Data.
- TRANSIT-IDEA Program Project Final Report - Innovative Operating Strategies for Paratransit Services.
- TRANSIT-IDEA Program Project Final Report - Transit Communications Interface Profiles (TCIP) Traveler Information Pilot.

- ACRP Synthesis of Airport Practice, Issue 64 - Issues Related to Accommodating Animals Traveling Through Airports.
- ACRP Synthesis of Airport Practice, Issue 63 - Overview of Airport Fueling Operations.

- TRB Meeting Summary, Issue 2 - Air Traffic Control: Symposium on Organizational Reform Options.

- NCHRP Research Results Digest, Issue 352 - Cost/Benefit Analysis of Converting a Lane for Bus Rapid Transit—Phase II Evaluation and Methodology.

- First Report: Review of Desk Scans. Transportation Research Board - Review of U.S. Department of Transportation Truck Size and Weight Study.

- ACRP Web-Only Document, Issue 14 - Guidelines for Preparing Peak Period and Operational Profiles.

- Analysis of New Highway Lighting Technologies.

- Transportation Research Board - Committee for Review of the Federal Railroad Administration (FRA) Research, Development, and Demonstration Programs Letter Report: May 31, 2012.

- Transportation Research Board - Access Management Manual.

- Transportation Research Board - Highway Capacity Manual 2010.

- Current research
 - ACRP 10-20 - Guidance for Planning, Design, and Operations of Airport Communications
 - ACRP 10-22 - Improving Stakeholder Engagement in Aircraft Accident Planning
 - ACRP 10-24 - Guidance for Developing Ramp Control Facilities
 - ACRP 10-25 - Public-Notification Programs at Airports
 - TCRP A-36 - Command-Level Decision Making for Transit Emergency Managers
 - TCRP A-40 - Manual to Improve Rail Transit Safety at Platform/Train and Platform/Guideway Interfaces
 - TCRP A-41 - Improving the Resiliency of Transit Systems Threatened by Natural Disasters
 - TCRP A-42 - Minutes Matter: A Guide to Bus Transit Service Reliability
 - NCHRP 03-117 - Traffic Control Devices and Measures for Detering Wrong-Way Movements
 - NCHRP 03-118 - Decision-Making Guide for Traffic Signal Phasing
 - NCHRP 03-119 - Application of MASH Test Criteria to Breakaway Sign and Luminaire Supports and Crashworthy Work-Zone Traffic Control Devices
 - NCHRP 03-120 - Assessing Interactions Between Access Management Treatments and Multimodal Users
 - NCHRP 03-101 - Costs and Benefits of Public-Sector Deployment of Vehicle to Infrastructure Technologies
 - NCHRP 03-105 - Design Guidance for Interchange Loop Ramps
 - NCHRP 03-108 - Guidance on Quantifying Benefits of TIM Strategies
 - NCHRP 03-111 - Effectiveness of Work Zone Transportation Management Plan (TMP) Strategies
 - NCHRP 03-112 - Operational and Safety Considerations in Making Lane Width Decisions on Urban and Suburban Arterials
 - NCHRP 03-113 - Guidance for Traffic Signals at Diverging Diamond Interchanges and Adjacent Intersections
 - NCHRP 03-114 - Planning and Evaluating Active Traffic Management Strategies
 - NCHRP 03-115 - Production of a Major Update to the 2010 Highway Capacity Manual
 - NCHRP 03-62 - Guidelines for Accessible Pedestrian Signals

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- NCHRP 03-78B - Guidelines for the Application of Crossing Solutions at Roundabouts and Channelized Turn Lanes to Assist Pedestrians with Vision Disabilities
- NCHRP 03-99 - Development and Application of Access Management Guidelines
- NCHRP 07-21 - Asset Management Guidance for Traffic Control Devices, Barriers, and Lighting
- NCHRP 07-22 - Planning and Preliminary Engineering Applications Guide to the Highway Capacity Manual
- NCHRP 07-23 - Access Management in the Vicinity of Interchanges

- Upcoming projects
 - NCHRP 03-126 - Operational Standards for Highway Infrastructure
 - NCHRP 03-127 - Cybersecurity of Traffic Signals and Related ITS Equipment
 - NCHRP 03-121 - Incorporating Freight, Transit, and Incident Response Stakeholders into Integrated Corridor Management (ICM): Processes and Strategies for Implementation
 - NCHRP 03-122 - Performance-Based Management of Traffic Signals
 - NCHRP 03-123 - Proposed Practices for the Application of Dynamic Lane Use Control
 - NCHRP 03-124 - Principles and Guidance for Presenting Drivers with Dynamic Information on Active Traffic Management
 - NCHRP 03-125 - Evaluation of Change and Clearance Intervals Prior to the Flashing Yellow Arrow Permissive Left-Turn Indication
 - NCHRP 07-24 - Methodology for Estimating the Value of Travel-Time Reliability for Truck Freight System Users—Phase 2
 - NCHRP 07-25 - Pedestrian and Bicycle Planning, Design, and Operational Issues with Alternative Intersections

Panel Member nominations accepted (<http://www.trb.org/TCRP/CRPInfoPanelMembers.aspx>)

Second Strategic Highway Research Program (SHRP 2)

- SHRP 2 Report, Issue Report S2-L35A-RW-1 - Value of Travel Time Reliability in Transportation Decision Making: Proof of Concept—Portland, Oregon, Metro.
- SHRP 2 Report, Issue Report S2-S06-RW-2 - Naturalistic Driving Study: Collecting Data on Cell Phone Use.
- SHRP 2 Report, Issue Report S2-S04A-RW-1 - Naturalistic Driving Study: Development of the Roadway Information Database.
- SHRP 2 Report, Issue Report S2-L07-RR-3 - Further Development of the Safety and Congestion Relationship for Urban Freeways.
- SHRP 2 Report, Issue Report S2-L13A-RW-1 - Designing the Archive for SHRP 2 Reliability and Reliability-Related Data.
- SHRP 2 Report, Issue Report S2-L33-RW-1 - Validation of Urban Freeway Models.
- SHRP 2 Report, Issue Report S2-L35B-RW-1 - Value of Travel Time Reliability in Transportation Decision Making: Proof of Concept—Maryland.
- SHRP 2 Report, Issue Report S2-S08A-RW-1 - Analysis of Naturalistic Driving Study Data: Safer Glances, Driver Inattention, and Crash Risk.
- SHRP 2 Report, Issue Report S2-S08B-RW-1 - Analysis of Naturalistic Driving Study Data: Offset Left-Turn Lanes.
- SHRP 2 Report, Issue Report S2-S08D-RW-1 - Analysis of Naturalistic Driving Study Data: Roadway Departures on Rural Two-Lane Curves.
- SHRP 2 Report, Issue Report S2-I32C-RW-1 - Post-Course Assessment and Reporting Tool for Trainers and TIM Responders Using the SHRP 2 Interdisciplinary Traffic Incident Management Curriculum.
- SHRP 2 Report, Issue Report S2-S06-RW-1 - Naturalistic Driving Study: Technical Coordination and Quality Control.
- SHRP 2 Report, Issue Report S2-S07-RW-1 - Naturalistic Driving Study: Field Data Collection.
- SHRP 2 Report, S2-L35A-RW-1- The Estimation and Use of Value of Travel Time Reliability for Multi-Modal Corridor Analysis.

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- SHRP 2 Project Brief - Establishing Monitoring Programs for Travel Time Reliability.
- SHRP 2 Report - Pilot Testing of SHRP 2 Reliability Data and Analytical Products: Florida Pilot Site.
- SHRP 2 Products Chart. Transportation Research Board
- SHRP 2 Report - Pilot Testing of SHRP 2 Reliability Data and Analytical Products: Southern California Pilot Site.
- SHRP 2 Report - Handbook for Communicating Travel Time Reliability Through Graphics and Tables.
- SHRP 2 Report - E-Tool for Business Processes to Improve Travel Time Reliability.
- SHRP 2 Report, Cambridge Systematics, Issue S2-L05-RR-3 - Incorporating Reliability Performance Measures into the Transportation Planning and Programming Processes: Technical Reference.
- SHRP 2 Report, Issue Report S2-L08-RW-1 - Incorporating Travel Time Reliability into the Highway Capacity Manual.
- SHRP 2 Report, Issue S2-L05-RR-2 - Guide to Incorporating Reliability Performance Measures into the Transportation Planning and Programming Processes.
- SHRP 2 Report, Issue S2-L05-RW-1 - Incorporating Reliability Performance Measures into the Transportation Planning and Programming Processes.
- SHRP 2 Report - Analysis Tool for Design Treatments to Address Nonrecurrent Congestion: Annotated Graphical User's Guide. Version 2.
- SHRP 2 Project Brief - Can You See Us Now?.
- SHRP 2 Report, Issue S2-L04-RW-2 - Incorporating Reliability Performance Measures in Operations and Planning Modeling Tools: Application Guidelines.
- SHRP 2 Report - Analysis Tool for Design Treatments to Address Nonrecurrent Congestion: Annotated Graphical User's Guide Version 1.0.
- SHRP 2 Report, Issue S2-L04-RR-1 - Incorporating Reliability Performance Measures in Operations and Planning Modeling Tools.
- SHRP 2 Program Brief - Improving Travel Time Reliability.
- SHRP 2 Project Brief - A Guide to Improving Travel Time Reliability by Integrating Business Processes.
- SHRP 2 Report, Issue S2-L07-RR-2 - Design Guide for Addressing Nonrecurrent Congestion.
- SHRP 2 Report, Issue Report S2-L07-RR-1 - Identification and Evaluation of the Cost-Effectiveness of Highway Design Features to Reduce Nonrecurrent Congestion.
- SHRP 2 Report, Issue S2-L17-RW-1 - A Framework for Improving Travel Time Reliability.
- SHRP 2 Report, Issue S2-L32A-RW-1 - Train-the-Trainer Pilot Courses for Incident Responders and Managers.
- SHRP 2 Report, Issue Report S2-L14-RW-1 - Effectiveness of Different Approaches to Disseminating Traveler Information on Travel Time Reliability.
- SHRP 2 Report, Issue S2-L14-RW-2 - Lexicon for Conveying Travel Time Reliability Information.
- SHRP 2 Report, Issue Report S2-L02-RR-1 - Establishing Monitoring Programs for Travel Time Reliability.
- SHRP 2 Report, Issue S2-L02-RR-2 - Guide to Establishing Monitoring Programs for Travel Time Reliability.
- SHRP 2 Report, Issue S2-R11-RW-2 - WISE Software Users Guide.
- SHRP 2 Report, Issue Report S2-C05-RW-1 - Understanding the Contributions of Operations, Technology, and Design to Meeting Highway Capacity Needs.
- SHRP 2 Report, Issue S2-L06-RR-1 - Institutional Architectures to Improve Systems Operations and Management.
- SHRP 2 Report - Technical Report on SHRP 2 C10B Version of DynusT and FAST-TrIPs.
- SHRP 2 Report - Incorporation of Travel Time Reliability into the HCM.
- SHRP 2 Project Brief - Incorporating Reliability into the Transportation Planning and Programming Process.
- SHRP 2 Project Brief - A National Traffic Incident Management Training Course for Incident Responders and Managers.



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- SHRP 2 Project Brief - Travel Time Reliability 2030: Innovations and Strategies for Today and Tomorrow.
- SHRP 2 Reliability IDEA Program Project Final Report - Online Traffic Simulation Service for Highway Incident Management.
- SHRP 2 Report - Presentation Guide: Operations in the 21st Century DOT: Meeting Customer Expectations.
- SHRP 2 Report - Proposed Chapters for Incorporating Travel Time Reliability into the Highway Capacity Manual.
- SHRP 2 Report, Issue S2-L03-RR-1 - Analytical Procedures for Determining the Impacts of Reliability Mitigation Strategies.
- SHRP 2 Report, Issue S2-L11-RR-1 - Evaluating Alternative Operations Strategies to Improve Travel Time Reliability.
- SHRP 2 Project Brief - Operations Guide to Improving Highway Capacity.
- SHRP 2 Report - Strategic Approaches at the Corridor and Network Level to Minimize Disruption from the Renewal Process.
- SHRP 2 Report, Issue S2-S09-RW-1 - Site-Based Video System Design and Development.
- SHRP 2 Report, Issue S2-L12-RW-1 - Training of Traffic Incident Responders.

Other Relevant Reports

- 2013: Planning, Design, Operations, and Infrastructure (*Journal of the Transportation Research Board, No. 2387*)
- Livable Cities of the Future: Proceedings of a Symposium Honoring the Legacy of George Bugliarello (2014, *National Academy of Engineering*)
- TRB Library Connected and Automated Vehicles Overview Guide:
[http://onlinepubs.trb.org/onlinepubs/trblibrary/overview/Connected & automated vehicles.pdf](http://onlinepubs.trb.org/onlinepubs/trblibrary/overview/Connected%20&%20automated%20vehicles.pdf)