

# TRB's Cooperative Research Program's Report to the AASHTO Highway Subcommittee on Transportation Systems Management and Operations

## Recent Publications

[The Legal Definitions of "First Responder"](#) (NCHRP Research Results Digest 385)

[A Look at the Legal Environment for Driverless Vehicles](#) (NCHRP Legal Research Digest 69)

[Work Zone Speed Management](#) (NCHRP Synthesis 482)

[Guidance for Implementation of Traffic Incident Management Performance Measurement](#) (NCHRP 07-20 Contractor's Report, hosted and maintained by the TIM Network)

[Traffic Signal Timing Manual: Second Edition](#) (NCHRP Report 812)

[Connected and Automated Vehicle Research Roadmap for AASHTO](#) (NCHRP 20-24(98))

[Planning for Transportation System Management and Operations](#) (NCHRP 20-07/345)

[Measuring State DOT Performance—Congestion](#) (NCHRP 20-24(37)I)

[Sharing Operations Data Among Agencies](#) (NCHRP Synthesis 460)

[Expediting Future Technologies for Enhancing Transportation System Performance](#) (NCHRP Report 750, Vol. 3)

[Emergency Medical Services Response to Motor Vehicle Crashes in Rural Areas](#) (NCHRP Synthesis 451)

[Active Traffic Management for Arterials](#) (NCHRP Synthesis 447)

[Judicial Enforcement of Variable Speed Limits](#) (NCHRP Legal Research Digest 47)

[Operations in the 21st Century DOT: Meeting](#)

[Customer Expectations](#) (SHRP 2 Reliability Presentation Guide)

[Traffic Enforcement Strategies for Work Zones](#) (NCHRP Report 746)

[A Transportation Guide for All-Hazards Emergency Evacuation](#) (NCHRP Report 740)

[Train-the-Trainer Pilot Courses for Incident Responders and Managers](#) (SHRP 2 S2-L32A-RW-1)

[Effectiveness of Different Approaches to Disseminating Traveler Information on Travel Time Reliability](#) (SHRP 2 S2-L14-RW-1)

[A Lexicon for Conveying Travel Time Reliability Information](#) (SHRP 2 S2-L14-RW-2)

[Online Traffic Simulation Service for Highway Incident Management](#) (SHRP 2 IDEA Report)

[Use of Transportation Asset Management Principles in State Highway Agencies](#) (NCHRP Synthesis 439)

[Understanding the Contributions of Operations, Technology, and Design to Meeting Highway Capacity Needs](#) (SHRP 2 S2-C05-RW-1)

[Deployment, Use, and Effect of Real-Time Traveler Information Systems](#) (NCHRP Web-Only Document 192)

[Evaluating Alternative Operations Strategies to Improve Travel Time Reliability](#) (SHRP 2 S2-L11-RR-1)

[Analysis of Managed Lanes on Freeway Facilities](#) (NCHRP Web-Only Document 191)

[A Guide for Implementing Bus on Shoulder \(BOS\) Systems](#) (TCRP Report 151)

[Performance-Based Highway Maintenance and Operations Management](#) (NCHRP Synthesis 426)

**Ongoing Projects** (Year and Quarter are approximate for availability)

[Costs and Benefits of Public-Sector Deployment of Vehicle to Infrastructure Technologies](#) (NCHRP 03-101, 2016 Q1)

[Guide for Identifying, Classifying, Evaluating, and Mitigating Truck Freight Bottlenecks](#) (NCHRP 08-98, 2016 Q1)

[National Transportation System Management and Operations \(TSM&O\) Research Plan](#) (NCHRP 20-07/359, 2016 Q2)

[Production of a Major Update to the Highway Capacity Manual](#) (NCHRP 03-115, 2016 Q2)

[Guidelines for Implementing Managed Lanes](#) (NCHRP 15-49, 2016 Q3)

[Asset Management Guidance for Traffic Control Devices, Barriers, and Lighting](#) (NCHRP 07-21, 2016 Q4)

[Guidance on Quantifying Benefits of TIM Strategies](#) (NCHRP 03-108, 2017 Q1)

[Transportation Agency ITS Infrastructure Decisions Considering V2I Deployment](#) (NCHRP 20-07/376, 2016 Q4)

[Strategic Transportation Systems Management & Operations Program Planning Lead States Initiative Development and Evaluation](#) (NCHRP 20-07/365, 2016 Q4)

A Review of Current Practice and Research Studies on Performance Measures for Transportation Systems Management and Operations (TSM&O)

(NCHRP 20-07/366, 2016 Q3)

[Planning and Evaluating Active Traffic Management Strategies](#) (NCHRP 03-114, 2017 Q1, **Literature Review is available on the project webpage.**)

[Transportation System Management and Operations Standards for Highway Infrastructure](#) (NCHRP 20-07/392, 2017 Q2)

[AASHTO Traffic Incident Management Working Group and Technical Advisory Group Business Plan](#)(NCHRP 20-07/385, 2017 Q2)

[Analysis of Oversaturated Traffic Flow Conditions on Freeway Facilities](#) (NCHRP 03-96A, 2018 Q2)

[Effectiveness of Work Zone Transportation Management Plan Strategies](#) (NCHRP 03-111, 2017 Q3)

[Impacts of Connected and Automated Vehicles on State and Local Transportation Agencies](#) (NCHRP 20-102, continuing project)

[Leveraging Big Data to Improve Traffic Incident Management](#) (NCHRP 17-75, 2018 Q2)

[Incorporating Freight, Transit, and Incident Response Stakeholders into Integrated Corridor Management \(ICM\): Processes and Strategies for Implementation](#) (NCHRP 03-121, 2018 Q4)

[Performance-Based Management of Traffic Signal Systems](#) (NCHRP 03-122, 2018 Q4)

[Principles and Guidance for Presenting Drivers with Dynamic Information on Active Traffic Management](#)(NCHRP 03-124, 2019 Q4)