



TRANSPORTATION RESEARCH BOARD

## TRB Snap Search: Operations & Traffic Management

### TRB's involvement in research on Operations & Traffic Management from 2017-2018

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

### 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 Operations & Traffic Management within the past year.

### Subject Webpage

- [Operations & Traffic Management Research at TRB](#)

### Recent Reports & Publications

- [Airport Cooperative Research Program \(ACRP\)](#)
  - [Impacts on Practice](#) - Creating a Collaborative Environment Between Airport Operations and Maintenance
  - [Report 171](#) - Establishing a Coordinated Local Family Assistance Program for Airports
  - [Report 167](#) - Guidebook for Developing Ramp Control Facilities
  - [Report 50](#) - Improved Models for Risk Assessment of Runway Safety Areas
  - [Synthesis 84](#) - Transportation Network Companies: Challenges and Opportunities for Airport Operators
  - [Synthesis 80](#) - Estimating Truck Trip Generation for Airport Air Cargo Activity
- [National Cooperative Freight Research Program \(NCFRP\)](#)
  - [Report 37](#) - Using Commodity Flow Survey Microdata and Other Establishment Data to Estimate the Generation of Freight, Freight Trips, and Service Trips: Guidebook
- [National Cooperative Highway Research Program \(NCHRP\)](#)
  - [Briefing Document](#) - Strategies to Advance Automated and Connected Vehicles
  - [Brochure](#) - Connected and Automated Vehicles: NCHRP Support for Transportation Agency Leaders
  - [IDEA 181](#) - Development of Small Specimen Geometry for Asphalt Mixture Performance Testing
  - [Ready Results](#) - Choosing Safe, Cost-Effective Intersection Designs
  - [Ready Results](#) - New Guidelines for Lighting Overhead Signs
  - [Report 854](#) - Guide for Identifying, Classifying, Evaluating, and Mitigating Truck Freight Bottlenecks
  - [Report 845](#) - Advancing Automated and Connected Vehicles: Policy and Planning Strategies for State and Local Transportation Agencies
  - [Report 844](#) - Guide for Integrating Goods and Services Movement by Commercial Vehicles in Smart Growth Environments
  - [Report 841](#) - Development of Crash Modification Factors for Uncontrolled Pedestrian Crossing Treatments
  - [Report 835](#) - Guidelines for Implementing Managed Lanes
  - [Report 834](#) - Crossing Solutions at Roundabouts and Channelized Turn Lanes for Pedestrians with Vision Disabilities: A Guidebook
  - [Synthesis 507](#) - Traffic Signal Preemption at Intersections Near Highway–Rail Grade Crossings
  - [Web-Only Document 239](#) - Impacts of Laws and Regulations on CV and AV Technology Introduction in Transit Operations
  - [Web-Only Document 231](#) - Challenges to CV and AV Applications in Truck Freight Operations
  - [Web-Only Document 229](#) - Methods and Technologies for Pedestrian and Bicycle Volume Data Collection: Phase 2

- [Web-Only Document 222](#) - Guidelines for the Application of Crossing Solutions at Roundabouts and Channelized Turn Lanes for Pedestrians with Vision Disabilities
- [Transportation Research Circulars](#)
  - [E-Circular 222](#) - Automated Vehicles Symposium 2016
  - [E-Circular 220](#) - First International Roadside Safety Conference: Safer Roads, Saving Lives, Saving Money
  - [E-Circular 219](#) - The U.S. Department of Transportation's Smart City Challenge and the Federal Transit Administration's Mobility on Demand Sandbox: Advancing Multimodal Mobility and Best Practices Workshop
  - [E-Circular 218](#) - Advancing Freeway Operations Through Strategic Research
- [Transportation Research Record: Journal of the Transportation Research Board](#)
  - [Volume 2658](#) - Intersections of Transportation and Telecommunications: Findings by the 2016 Chan Wui and Yunyin Rising Star Fellows
  - [Volume 2646](#) - Managing Performance and Assets; Freight Data and Visualization
  - [Volume 2644](#) - Traffic Monitoring: Automobiles, Trucks, Bicycles, and Pedestrians
  - [Volume 2643](#) - Data and Methods to Understand Travel
  - [Volume 2637](#) - Motorcycles, Trucks, Buses, and Roundabouts
  - [Volume 2625](#) - Connected and Automated Vehicles
  - [Volume 2624](#) - Traffic Control Devices
  - [Volume 2622](#) - Traffic Flow Theory and Characteristics: Volume 1
  - [Volume 2621](#) - Intelligent Transportation Systems
  - [Volume 2620](#) - Traffic Signal Systems: Volume 2
  - [Volume 2619](#) - Traffic Signal Systems: Volume 1
  - [Volume 2618](#) - Operational Effects of Geometrics and Access Management
  - [Volume 2617](#) - Visibility and Work Zone Traffic Control
  - [Volume 2616](#) - Freeway Operations; Regional System Management and Operations; Managed Lanes
  - [Volume 2615](#) - Highway Capacity and Quality of Service
  - [Volume 2613](#) - Maintenance Services, Transportation Weather, and Winter Maintenance
  - [Volume 2561](#) - Traffic Flow Theory and Characteristics, Volume 2

## Current & Upcoming Projects

- [Current Projects](#)
  - [ACRP 01-29](#) - Design and Development of a State Aviation Information Database
- [Upcoming Projects](#)
  - [ACRP 02-86](#) - Understanding Impacts to Airports from Temporary Flight Restrictions
  - [ACRP 02-85](#) - Commercial Space Vehicle Emissions Modeling
  - [ACRP 02-82](#) - Advancing Airport Transportation to Achieve Zero-Emissions Status
  - [BTSCRPT BTS-02](#) - Variable Message Signs
  - [NCHRP 03-133](#) - Traffic Signal Design and Operations Strategies for Non-Motorized Users
  - [NCHRP 03-129](#) - Essential Communications
  - [NCHRP 03-96A](#) - Analysis of Oversaturated Traffic Flow Conditions on Freeway Facilities

## Reports from the [National Academies Press](#) on Operations & Traffic Management

- [Assessment of Solid-State Lighting, Phase Two](#)
- [Strengthening the Workforce to Support Community Living and Participation for Older Adults and Individuals with Disabilities: Proceedings of a Workshop](#)
- [Improving Motor Carrier Safety Measurement](#)
- [Review of the Research Program of the U.S. DRIVE Partnership: Fifth Report](#)

## Committees & Panels

[Sign-up to be a committee "Friend"](#)

[Technical Activities Division Standing Committees](#) – Search by transportation mode and committee topic

- [AFB10](#) – Geometric Design
- [AH000](#) – Operations and Preservation Group
- [AHB00](#) – Operations
- [AHB10](#) – Regional Transportation Systems Management and Operations
- [AHB15](#) – Intelligent Transportation Systems
- [AHB20](#) – Freeway Operations
- [AHB25](#) – Traffic Signal Systems

- [AHB30](#) – Vehicle-Highway Automation
- [AHB35](#) – Managed Lanes
- [AHB40](#) – Highway Capacity and Quality of Service
- [AHB45](#) – Traffic Flow Theory and Characteristics
- [AHB50](#) – Traffic Control Devices
- [AHB55](#) – Work Zone Traffic Control
- [AHB60](#) – Highway/Rail Grade Crossings
- [AHB65](#) – Operational Effects of Geometrics
- [AHB70](#) – Access Management
- [AHD10](#) – Maintenance and Operations Management
- [AHD15](#) – Maintenance and Operations Personnel
- [AHD55](#) – Signing and Marking Materials
- [AHB75](#) – Roundabouts

[Task Forces](#) - Search for *task force* under committee here

#### Policy Study

- [B0024](#) - Research and Technology Coordinating Committee (FHWA)

#### CRP Panels

- [Project Panels Related to Operations & Traffic Management](#)

#### Councils

- [A0040T](#) – Young Member Council

### Recent and Upcoming Events

[Conferences \(co-sponsored by TRB\)](#) - Left hand menu “upcoming conferences by topic”

#### [Transport Research Arena 2018\\*](#)

*April 16-19, 2018*

**Vienna, Austria**

#### [Road Safety on Five Continents \(RS5C\)\\*](#)

*May 16-18, 2018*

**Jeju Island, South Korea**

#### [I-TED 2018: International Transportation and Economic Development Conference](#)

*June 6-8, 2018*

**Washington, D.C.**

#### [7th International Conference on Innovations in Travel Modeling \(ITM\)](#)

*June 24-27, 2018*

**Atlanta, Georgia**

#### [12th National Conference on Transportation Asset Management](#)

*July 14-17, 2018*

**San Diego, California**

#### [12th Access Management Conference](#)

*July 17-19, 2018*

**Madison, Wisconsin**

#### [16th National Tools of the Trade Transportation Planning Conference](#)

*August 22-24, 2018*

**Kansas City, Missouri**

#### [2018 Workshop on Managed Lanes](#)

*September 25-27, 2018*

**Bellevue, Washington**

[Webinars](#) – View upcoming webinars, suggest a webinar or add registration information

## 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](http://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](http://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](http://pubsindex.trb.org)

**Research in Progress (RiP) Database** – Current or recently completed transportation research projects - [rip.trb.org](http://rip.trb.org)

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

Contact the Library at [TRBLibrary@nas.edu](mailto:TRBLibrary@nas.edu) or 1 (202) 334-2989