TRB’s involvement in research on Work Zones from 2019-2022

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 Work Zones within the past three years.

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

- National Cooperative Highway Research Program (NCHRP)
  - Report 945 - Strategies for Work Zone Transportation Management Plans
  - Report 923 - Workforce Optimization Workbook for Transportation Construction Projects
  - Synthesis 574 - Temporary Pavement Markings Placement and Removal Practices in Work Zones
  - Synthesis 539 - Landscape Development and Management Practices for Urban Freeway Roadside
  - Synthesis 533 - Very Short Duration Work Zone Safety for Maintenance and Other Activities
  - Web-Only Document 276 - Evaluating Strategies for Work Zone Transportation Management Plans

Current & Upcoming Projects

- Current Projects
  - NCHRP 03-126 - Transportation Operations Manual
  - NCHRP 03-132 - Guidance for Safe and Effective Temporary Traffic Control for Mobile Operations on Two-Lane Two-Way Roadways
  - NCHRP 03-134 - Determination of Encroachment Conditions in Work Zones
  - NCHRP 08-119 - Data Integration, Sharing, and Management for Transportation Planning and Traffic Operations
  - NCHRP 10-109 - Modern Solutions to Safe and Efficient Work Zone Travel
  - NCHRP 20-07 / Task 358 - Reducing Risks to Worker Safety in Work Zones Due to Distracted Drivers
  - NCHRP 20-102(28) - Preparing Transportation Agencies for Connected and Automated Vehicles in Work Zones
  - NCHRP 22-43 - Proposed AASHTO Guidelines for Implementation of MASH for Sign Supports, Breakaway Poles, and Work Zone Traffic Control Devices
  - NCHRP IDEA 20-30 / IDEA 206 - From Location Tracking to Continuous Interpretation: Rule-Based Automated Safety Work Zone Safety
  - NCHRP IDEA 20-30 / IDEA 226 - A Smart IoT Proximity Alert System for Highway Work Zone Safety
  - NCHRP Synthesis 20-05 / Topic 52-11 - Use of Smart Work Zone Technologies for Improving Work Zone Safety
  - NCHRP Synthesis 20-05 / Topic 53-02 - Practices to Motivate Safe Behaviors with Highway Construction and Maintenance Crews

Updated 06/03/2022
- **Upcoming Projects**
  - NCHRP 17-107 - Work Zone Intrusion Frequency and Characteristics
  - NCHRP 17-121 - Using Advanced Technologies to Reduce Commercial Motor Vehicle Crashes in Work Zones

- **Reports from the National Academies Press on Work Zones**
  - Frameworks for Protecting Workers and the Public from Inhalation Hazards
  - Options for Reducing Lead Emissions from Piston-Engine Aircraft
  - Space Radiation and Astronaut Health
  - Lessons Learned in Health Professions: Education During the COVID-19 Pandemic, Part 1
  - Offshore Situation Room - Enhancing Resilience to Offshore Oil Disasters in the Gulf of Mexico

- **Committees & Panels**
  - Sign-up to be a committee "Friend"

- **TRB Standing Committees** - Search by transportation mode and committee topic
  - ACP55 - Traffic Control Devices
  - AKC10 – Construction Management
  - AKR10 - Maintenance and Operations Management
  - AKR20 - Roadside Maintenance Operations
  - AKR40 - Winter Maintenance

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

- **CRP Panels**
  - D03111 - Effectiveness of Work Zone Transportation Management Plan Strategies
  - D03119 – Application of MASH Test Criteria to Breakaway Sign and Luminaire Supports and Crashworthy Work Zone Traffic Control Devices
  - D03134 – Determination of Encroachment Conditions in Work Zones
  - D10109 – Modern Solutions to Safe and Efficient Work Zone Travel
  - D17107 - Work Zone Intrusion Frequency and Characteristics
  - D2007358 – Reducing Risks to Worker Safety in Work Zones Due to Distracted Drivers
  - D2007416 - Alternative Technologies for Mitigating the Risk of Injuries and Deaths in the Work Zone
  - D2010228 - Best Practices in Work Zones for AVs and CVs
  - D2243 - Developing Testing Protocol for a Family of Devices - Signs, Breakaway Poles and Work Zone Devices
  - D2255 - Develop, Fabricate, and Test Surrogate Bogey Vehicles and Pendulum Masses with Noses for Evaluating MASH Breakaway Performance of Luminaire Poles, Signs, and Work Zone Devices
  - SN5103 - Temporary Pavement Markings Placement and Removal Practices in Work Zones
  - SN5211 - Use of Smart Work Zone Technologies for Improving Work Zone Safety

- **Councils**
  - A001C – Young Members Coordinating Council

- **Recent and Upcoming Events**

  - **Upcoming TRB Conferences** – Use left hand menu to filter events
    - **Automated Road Transportation Symposium**
      - July 18-21, 2022
      - Garden Grove, CA
    - **Geospatial Data Acquisition Technologies in Design and Construction Summer Committee Meeting**
      - July 25-27, 2022
      - Washington, D.C.
    - **TRB International Conference on Low Volume Roads**
      - July 23-26, 2023
      - Cedar Rapids, IA

  - **Upcoming Events** – In the Upcoming Events tab under Types, choose what event you are interested in, search titles by keyword
  - **Past Events** - In the Past Events tab under Types, choose what event you are interested in, search titles by keyword
TRB’s Transportation Research Information Services (TRIS)

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

- Transportation Research International Documentation (TRID) – 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 - A tool to improve the indexing and retrieval of transportation information.
- Research in Progress (RiP) Database – rip.trb.org - Current or recently completed transportation research projects
- Research Needs Statements (RNS) – rns.trb.org - Research needs as identified by TRB Technical Activities standing committees
- Publications Index (PubsIndex) Database – pubsindex.trb.org - The papers, articles and reports published by the Transportation Research Board, Strategic Highway Research Programs or the Marine Board

Contact or Questions: TRBLibrary@nas.edu