TRB Snap Search: Asset Management

TRB's involvement in research on Asset Management from 2021-2023

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

All available Snap Searches can be accessed online here: [http://www.trb.org/InformationServices/Snap.aspx](http://www.trb.org/InformationServices/Snap.aspx)

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 Asset Management within the past two 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

- CRP Special Releases
  - Report 4 - Lifecycle Building Information Modeling for Infrastructure: A Business Case for Project Delivery and Asset Management
  - Legal Research Digest 84 - Fix It, Sign It or Close It: State of Good Repair in an Era of Budget Constraints
  - Report 1066 - Risk Assessment Techniques for Transportation Asset Management
  - Report 1034 - Guidelines on Collaboration and Information Security for State DOTs
  - Report 985 - Integrating Effective Transportation Performance, Risk, and Asset Management Practices
  - Report 956 - Guidebook for Data and Information Systems for Transportation Asset Management
  - Synthesis 577 - Collaborative Practices for Performance-Based Asset Management Between State DOTs and MPOs
  - Web-Only Document 335 - A Guide to Computation and Use of System-Level Valuation of Transportation Assets

- National Cooperative Highway Research Program (NCHRP)
  - NCHRP 20-102(15) - Impacts of Connected and Automated Vehicle Technologies on the Highway Infrastructure
  - NCHRP 20-123(01) - Transportation Asset Management Strategic Planning and Research Roadmap Development
  - Legal Research Digest 84 - Fix It, Sign It or Close It: State of Good Repair in an Era of Budget Constraints

- TransCooperative Research Program (TCRP)
  - Legal Research Digest 57 - Fix It, Sign It or Close It: State of Good Repair in an Era of Budget Constraints

- Transportation Research Circulars
  - E-Circular 277 - 13th National Conference on Transportation Asset Management

Current & Upcoming Projects

- Current Projects
  - ACRP 09-20 - Quantifying the Impacts of Delayed Maintenance of Airport Assets
  - ACRP 09-21 - Asset Information Handover Guidelines: From Planning and Construction to O&M
NCHRP 02-26 - Implementation of Life-Cycle Planning Analysis in a Transportation Asset Management Framework
NCHRP 03-140 - Guidelines for Applications of RFID and Wireless Technologies in Highway Construction and Asset Management
NCHRP 03-144 - Leveraging Existing Traffic Signal Assets to Obtain Quality Traffic Counts and Enhance Transportation Monitoring Programs
NCHRP 08-137 - Updates to the Digital Edition of the AASHTO Transportation Asset Management Guide
NCHRP 13-09 - Maximizing Proceeds from the Fleet Asset Disposal Sales Process
NCHRP 14-42 - Determining the Impact of Connected and Automated Vehicle Technology on State DOT Maintenance Programs
NCHRP 14-47 - Tools and Technology for Roadside Landscape Asset Management
NCHRP 20-50(21) - Enhancements of Climatic Inputs and Related Models for Pavement ME Using LTPP Climate Tool (MERRA-2)
NCHRP 23-08 - A Guide for Incorporating Maintenance Costs into a Transportation Asset Management Plan
NCHRP 23-24 - Methods to Allow Agencies to Incorporate Quantitative Risk Assessment at Project and Network Level
NCHRP Synthesis 20-05/Topic 54-06 - Ancillary Asset Data Stewardship and Data Models
NCHRP Synthesis 20-05/Topic 54-08 - Practices for Integrating Performance-Based Plans with Long-Range Transportation Plans and Statewide Transportation Investment Programs
NCHRP Synthesis 20-05/Topic 54-18 - Wintertime Pavement Maintenance Practices

Upcoming Projects
NCHRP 08-138 - Guide to the Integration of Transportation Systems Management and Operations into Transportation Asset Management
NCHRP 08-169 - Valuing Diversity, Equity, and Inclusion in Transportation Asset Management
NCHRP 20-05/Topic 55-19 - Practices for Managing Selected Ancillary Transportation Assets
NCHRP 20-05/Topic 55-03 - Asset Management Practices for Mechanically Stabilized Earth Walls
NCHRP 20-44(46) - Implementing the Asset Valuation Guide Developed through NCHRP Project 23-06
NCHRP 23-32 - Transportation Asset Risk and Resilience
NCHRP 23-33 - Managed Retreat to Address Extreme Weather, Natural Hazards, and Climate Impacts
NCHRP Synthesis 20-05/Topic 55-17 - Practices to Enhance Resiliency of Existing Culverts
TCRP J-05/Topic 21-03 - Update of Selected Studies in Transportation Law, Volume 5, 2014 Supplement (Transit Law)

Reports from the National Academies Press on Asset Management
Enhancing Urban Sustainability Infrastructure: Mathematical Approaches for Optimizing Investments
Toward a 21st Century National Data Infrastructure: Mobilizing Information for the Common Good
Effectiveness and Efficiency of Defense Environmental Cleanup Activities of the Department of Energy’s Office of Environmental Management: Report 2
Service Life Assessment and Predictive Modeling for an Aging Critical Infrastructure
Effectiveness and Efficiency of Defense Environmental Cleanup Activities of DOE’s Office of Environmental Management
Transparency in Statistical Information for the National Center for Science and Engineering Statistics and All Federal Statistical Agencies
Global Change Research Needs and Opportunities for 2022-2031
Reorienting Health Care and Business Sector Investment Priorities Toward Health and Well-Being

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

TRB Standing Committees – Search by transportation mode and committee topic
AEF20 - Transportation Needs of National Parks and Public Lands
AJE30 - Transportation Asset Management
AKG60 - Geotechnical Instrumentation and Modeling
AKR30 - Maintenance Fleet and Equipment
AKT50 – Bridge and Structures Management
B0161 - Review of Federal Highway Administration Infrastructure R&D – Expert Task Group on Pavement
B0162 - Review of Federal Highway Administration Infrastructure R&D – Expert Task Group on Bridges

Task Forces - Search for task force under committee here

CRP Panels
o **D0226** - Implementation of Programmatic Life Cycle Cost Analysis in a Transportation Asset Management Framework

- **D03144** - Leveraging Existing Traffic Signal Assets to Obtain Quality Traffic Counts
- **D08115** - Framework for Designing and Managing Data and Information Workflows for Transportation Assets
- **D08118** - Risk Assessment Techniques for Transportation Asset Management
- **D08137** - Further Enhancements and Content for the AASHTO Transportation Asset Management Guide—A Focus on Implementation
- **D08138** - Connecting Transportation Asset Management (TAM) and Transportation System and Management Operations (TSMO)
- **D08169** - Equity, Diversity, and Inclusion, and Other Indicators to Improve Transportation Asset Management Impact and Outcomes
- **D1447** - Tools and Technology for Roadside Landscape Asset Management
- **D1925** - Identifying Funding Needs for Maintenance and Preservation of Existing Transportation Assets and System Infrastructure Additions
- **D2012301** - Transportation Asset Management Strategic Planning and Research Roadmap Development
- **D204446** - Implementing the Asset Valuation Guide developed through NCHRP Project 23-06: "A Guide to Computation and Use of System Level Valuation of Transportation Assets"
- **D2308** - Guidelines of Incorporating Maintenance Costs into a Transportation Asset Management Plan
- **D2332** - Development of the AASHTO Transportation Asset Risk & Resilience Manual: Phase 1
- **DA0920** - Consequences of Delayed Maintenance of Airport Assets
- **DA0921** - Guidelines for the Effective Transition of Asset Data from Design/Construction to Operations and Maintenance
- **DTPRS02** - BIM for Infrastructure: Building the Business Case and Leveraging Asset Data
- **SNS105** - Collaborative Practices for Performance-Based Asset Management between State Transportation Agencies and Metropolitan Planning Organizations
- **SN5202** - Using Bridge Element Data in Asset Management Decision Making
- **SN5406** - Ancillary Asset Data Stewardship and Data Models
- **SN5503** - Asset Management Practices for Mechanically Stabilized Earth Walls
- **SN5519** - Practices for Managing Selected Ancillary Transportation Assets

**Councils**

- **A001C** – Young Members Coordinating Council

**Recent and Upcoming Events**

Recent and Upcoming Events

Upcoming TRB Conferences – Use left hand menu to filter events

**National Conference on Transportation Asset Management**

*July 8-11, 2023*

*Boston, MA*

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](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 - Current or recently completed transportation research projects

• **Publications Index (PubsIndex) Database** – pubsindex.trb.org - The papers, articles and reports published by the Transportation Research Board, Strategic Highway Research Program or the Marine Board

**Contact or Questions:** TRBLibrary@nas.edu