TRB Snap Search: Connected & Automated Vehicles

TRB’s involvement in research on Connected & Automated Vehicles from 2020-2022

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

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 Connected & Automated Vehicles within the past two years.

Specialty Reports
- Critical Issues in Transportation 2019
- COVID-19 Addendum to Critical Issues in Transportation
- Racial Equity Addendum to Critical Issues in Transportation

Specialty Websites
- Transformational Technologies

Recent Reports & Publications
- Airport Cooperative Research Program (ACRP)
  - Legal Research Digest 39 - Updated Survey of Laws and Regulations Applicable to Airport Commercial Ground Transportation
  - Report 219 - Advanced Ground Vehicle Technologies for Airside Operations
  - WebResource 10 - Periodic Publication on Transformative Technologies at Airports

- National Cooperative Highway Research Program (NCHRP)
  - NCHRP 20-113F - Topical White Papers for the TRB Forum on Automated Vehicles and Shared Mobility
  - NCHRP 20-102(19) - Update AASHTO’s Connected Vehicle/Automated Vehicle Research Roadmap
  - NCHRP 20-24(112) - Connected Road Classification System (CRCS) Development
  - Report 978 - Initiating the Systems Engineering Process for Rural Connected Vehicle Corridors, Volume 1: Research Overview
  - Report 952 - Guidebook for Managing Data from Emerging Technologies for Transportation
  - Report 924 - Foreseeing the Impact of Transformational Technologies on Land Use and Transportation
  - Web-Only Document 310 - Evaluation and Synthesis of Connected Vehicle Communication Technologies

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TRANSPORTATION RESEARCH BOARD

- Web-Only Document 282 - Framework for Managing Data from Emerging Transportation Technologies to Support Decision-Making

- Transit Cooperative Research Program (TCRP)
  - IDEA Report 95 - Connected and Automated Parking Feasibility – A Pilot Study
  - Report 220 - Low-Speed Automated Vehicles (LSAVs) in Public Transportation

- Transportation Research E-Circulars
  - E-Circular 261 - Forum on Preparing for Automated Vehicles and Shared Mobility: Mini-Workshop on the Economic Implications of Automated Vehicles and Shared Mobility

Current & Upcoming Projects

- Current Projects
  - ACRP 10-32 - U.S. Airport Industry Adoption of Automated Ground Vehicle Systems
  - NCHRP 03-137 - Algorithms to Convert Basic Safety Messages into Traffic Measures
  - NCHRP 08-145 - Utilizing Cooperative Automated Transportation (CAT) Data to Enhance the Use of Freeway Operational Strategies
  - NCHRP 14-42 - Determining State DOT Maintenance Program Implications of Connected and Automated Vehicles
  - NCHRP 17-91 - Assessing the Impacts of Connected, Automated and Autonomous Vehicles on the Future of Transportation Safety
  - NCHRP 20-24(128) - State-of-the-Art Review of Cooperative Automated Transportation (CAT) Systems
  - NCHRP 20-102 - Impacts of Connected Vehicles and Automated Vehicles on State and Local Transportation Agencies—Task-Order Support
  - NCHRP 20-102(11) - Mobility-on-Demand and Automated Driving Systems: A Framework for Public-Sector Assessment
  - NCHRP 20-102(15) - Impacts of Connected and Automated Vehicle Technologies on the Highway Infrastructure
  - NCHRP 20-102(19) - Updated Research Roadmap for NCHRP 20-102, Impacts of Connected Vehicles and Automated Vehicles on State and Local Transportation Agencies
  - NCHRP 20-102(22) - Dynamic Curbside Management: Keeping Pace with New and Emerging Mobility and Technology in the Public Right of Way
  - NCHRP 20-102(27) - Realistic Timing Estimates for Automated Vehicle Implementation
  - NCHRP 20-102(28) - Preparing Transportation Agencies for Connected and Automated Vehicles in Work Zones
  - TCRP I-11/Task 34 - The Effects of Vehicle Automation on the Public Transportation Workforce
  - Transit IDEA I-04/IDEA 98 - Safety Assessment of the Interaction Between the Autonomous Shuttle Bus and Vulnerable Road Users

- Upcoming Projects
  - ACRP 10-33 - Incorporating Emerging Ground Access Technologies at Airports
  - ACRP 11-02/Task 43 - Successful Community Inclusion in Advanced Air Mobility
  - NCHRP 07-32 - Future-Proofing Automatic Traffic Signal Performance Measurement Systems for Scalability, Transferability, and CAV Integration
  - NCHRP 08-156 - Planning for Innovative and Emerging Mobility Futures at Intermodal Passenger Facilities
  - NCHRP 20-06/Topic 26-03 - Multistate Coordination and Harmonization for AV Legislation
  - NCHRP 20-24(116) - Guidance on Roles and Responsibilities in Operation of Automated Vehicles
  - NCHRP 20-24(119) - Strategic Research in Support of the Connected and Automated Vehicle Executive Leadership Team
  - NCHRP 20-102(16) - Impacts of Connected, Automated Vehicle Technologies on Traffic Incident Management Response
  - NCHRP 20-102(17) - Deployment Guidance for CV Applications in the Open Source Application Development Portal
  - NCHRP 20-102(20) - Workforce Capability Strategies for State and Local Agencies
  - NCHRP 20-102(24) - Infrastructure Modifications to Improve the Operational Domain of Automated Vehicles
  - NCHRP 20-102(25) - Readiness and Effectiveness of Freeway-Based Corridor V2X Applications for Improving Congestion and Safety
  - NCHRP 20-102(29) - Incorporating New Mobility Options into Transportation Demand Modeling
  - NCHRP 20-102(33) - Safety of Vulnerable Road Users in a C/AV Future
Reports from the National Academies Press on Connected & Automated Vehicles

- Accelerating Decarbonization of the U.S. Energy System
- Assessment of Technologies for Improving Light-Duty Vehicle Fuel Economy—2025-2035
- The Role of Advanced Technologies in Structural Engineering for More Resilient Communities
- Advancing Aerial Mobility
- Reducing Fuel Consumption and Greenhouse Gas Emissions of Medium- and Heavy-Duty Vehicles, Phase Two

Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic

- AED50 - Artificial Intelligence and Advanced Computing Applications
- ACH60 - Vehicle User Education, Training, and Licensing
- ACP15 - Intelligent Transportation Systems
- ACP30 - Vehicle-Highway Automation
- ALL40 - Emerging Technology Law
- ACH40 - Human Factors of Infrastructure Design and Operations

Task Forces - Search for task force under committee here

Panels

- D08120 - Initiating the Systems Engineering Process for Rural Connected Vehicle Corridors
- D08145 - Utilizing Cooperative Automated Transportation (CAT) Data to Enhance the Use of Freeway Operational Strategies
- D1442 - Determining State DOT Maintenance Program Implications of Connected and Automated Vehicles
- D1791 - Assessing the Impacts of Connected, Automated and Autonomous Vehicles on the Future of Transportation Safety
- D20102 - Impacts of Connected and Automated Vehicles on State and Local Transportation Agencies
- D2010211 - Mobility on Demand and Automated Driving Systems: A Framework for Public-Sector Assessment
- D2020216 - Preparing TIM Responders for Connected Vehicles and Automated Vehicles
- D2020224 - Infrastructure Enablers for Connected and Automated Vehicles and Shared Mobility—Near-Term and Mid-Term
- D2020227 - Realistic Timing Estimates for Automated Vehicle Implementation
- D2310 - Evaluation and Synthesis of Connected Vehicle Communications Technologies
- D2315 - Prioritization of Risks Related to Connected and Automated Vehicles and Emerging Technologies
- E0005A - Preparing for Automated Vehicles and Shared Mobility

Councils

- A001C – Young Members Coordinating Council

Recent and Upcoming Events

Upcoming Conferences - Left hand menu "upcoming conferences by topic"
(Conferences cosponsored by TRB are denoted with an asterisk.)

Conference on Sustainability and Emerging Transportation Technology
March 15-18, 2022
Irvine, CA

International Symposium on Transportation and Traffic Theory*
July 24-26, 2022
Beijing, China

TRB Conference on Scenario Planning in Transportation
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](https://library.trb.org) and the [TRIS Databases](https://tris.trb.org) (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** – [ript.trb.org](http://ript.trb.org) - Current or recently completed transportation research projects
- **Research Needs Statements (RNS)** – [rns.trb.org](http://rns.trb.org) - Research needs as identified by TRB Technical Activities standing committees
- **Publications Index (PubsIndex) Database** – [pubsindex.trb.org](http://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](mailto:TRBLibrary@nas.edu)