

TRB TRANSPORTATION RESEARCH BOARD

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>

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
 - [Report 215](#) - Transportation Network Companies (TNCs): Impacts to Airport Revenues and Operations—Reference Guide
 - [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 978](#) - Initiating the Systems Engineering Process for Rural Connected Vehicle Corridors, Volume 2: Model Concept of Operations
 - [Report 978](#) - Initiating the Systems Engineering Process for Rural Connected Vehicle Corridors, Volume 3: Model System Requirements Specification
 - [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
 - [Web-Only Document 289](#) - Business Models to Facilitate Deployment of Connected Vehicle Infrastructure to Support Automated Vehicle Operations

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- [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\(19\)B](#) - Updated Research Roadmap for NCHRP 20-102, Impacts of Connected Vehicles and Automated Vehicles on State and Local Transportation Agencies
 - [NCHRP 20-102\(22\)](#) - State and Local Impacts of Automated Freight Transportation Systems
 - [NCHRP 20-102\(26\)](#) - 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 J-11/Task 34](#) - The Effects of Vehicle Automation on the Public Transportation Workforce
 - [Transit IDEA J-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

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- [NCHRP 20-102\(34\)](#) - Toolbox for Navigating the Land Use Impacts of the Automated Vehicle Ecosystem
- [NCHRP 20-123\(12\)](#) - System Mobility and Emerging Technologies (SMET): Strategic Planning Session and Research Roadmap Development
- [NCHRP 23-15](#) - Guidance on Risks Related to Emerging and Disruptive Transportation Technologies
- [TCRP D-21](#) - Planning for Innovation & Emerging Mobility Futures at Intermodal Passenger Facilities

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
- [AJL40](#) - 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](#)

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September 19-21, 2022
Washington, D.C.

[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