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Recent Reports & Publications

- **Airport Cooperative Research Program (ACRP)**
  - Report 247 - Airfield Pavement Markings: Effective Techniques for Removal and Temporary Applications
  - Report 237 - Primer and Framework for Considering an Airport Noise and Operations Monitoring System
  - Report 231 - Evaluating the Traveler's Perspective to Improve the Airport Customer Experience
  - Report 230 - Enhancing Academic Programs to Prepare Future Airport Industry Professionals
  - Report 229 - Airport Collaborative Decision Making (ACDM) to Manage Adverse Conditions
  - Synthesis 118 - Airport Parking Pricing Strategies
  - Synthesis 117 - Agricultural Operations on Airport Grounds

- **Behavioral Traffic Safety Cooperative Research Program (BTSCRP)**

- **National Cooperative Highway Research Program (NCHRP)**
  - IDEA Report 228 - A Retroreflective Road Lane Marking Tape 1,000X Brighter than Existing Technology
  - IDEA Report 217 - A Real-Time Proactive Intersection Safety Monitoring and Visualization System Based on Radar Sensor Data
  - IDEA Report 209 - An Automated System for Pedestrian Facility Data Collection from Aerial Images
  - IDEA Report 190 - Self-de-icing LED Signals for Railroads and Highway Intersection
  - Report 1006 - Guide to Understanding Effects of Raising Speed Limits
  - Report 1005 - Motorcycle Crashes into Traffic Barriers: Factors Related to Serious and Fatal Injuries
  - Report 1003 - Guide to Alternative Technologies for Preventing and Mitigating Vehicle Intrusions into Highway Work Zones
  - Report 981 - Development of Guidelines for Quantifying Benefits of Traffic Incident Management Strategies
  - Report 978 - Initiating the Systems Engineering Process for Rural Connected Vehicle Corridors, Volume 1: Research Overview
• Report 969 - Traffic Signal Control Strategies for Pedestrians and Bicyclists
• Synthesis 587 - Use of Smart Work Zone Technologies for Improving Work Zone Safety
• Synthesis 575 - Lighting Practices for Isolated Rural Intersections
• Synthesis 561 - Use of Vehicle Probe and Cellular GPS Data by State Departments of Transportation
• Web-Only Document 328 - Safety Effects of Raising Speed Limits to 75 mph and Higher
• Web-Only Document 327 - Serious and Fatal Motorcycle Crashes into Traffic Barriers: Injury Information
• Web-Only Document 322 - Alternative Technologies for Mitigating the Risk of Injuries and Deaths in Work Zones: Conduct of Research
• Web-Only Document 318 - Safety Prediction Models for Six-Lane and One-Way Urban and Suburban Arterials
• Web-Only Document 316 - Human Factors Guidelines for Road Systems 2021 Update, Volume 1: Updated and New Chapters
• Web-Only Document 301 - Guidelines for Quantifying Benefits of Traffic Incident Management Strategies

• Transit Cooperative Research Program (TCRP)
  • IDEA Report 95 - Connected and Automated Parking Feasibility – A Pilot Study
  • Report 238 - Quantitative Procedures for Designing and Operating Ferry Transit Services
  • Report 237 - Fare-Free Transit Evaluation Framework
  • Report 234 - Measuring and Managing Fare Evasion
  • Synthesis 159 - Assessing Equity and Identifying Impacts Associated with Bus Network Redesigns

Current & Upcoming Projects

• Current Projects
  • ACRP 01-36 - Advancing the Practice of State Aviation System Planning
  • ACRP 01-41 - Airport Blockchain Implementation Guidebook
  • ACRP 02-95 - Understanding Airport Air Quality and Public Health Studies Related to Airports: An Update to ACRP Report 135
  • ACRP 03-49 - Effective Collaboration to Plan and Respond to Communicable Disease Threats
  • ACRP 03-52 - Guidelines for Adapting and Managing Airport Common Use Programs
  • ACRP 03-63 - Modernizing Air Cargo Operations and Infrastructure at U.S. Airports
  • ACRP 03-66 - Guidebook for Digital Twin Programs at Airports
  • ACRP 04-26 - Uncontrolled Terminal Evacuations: Planning, Response, and Recovery
  • ACRP 07-17 - Update to ACRP Report 40: Airport Roadway Analysis and Curbside Congestion Management Strategies
  • ACRP 09-21 - Asset Information Handover Guidelines: From Planning and Construction to O&M
  • ACRP 10-31 - Guidebook for Virtual Airport Ramp Control Operations Facilities
  • ACRP 10-32 - U.S. Airport Industry Adoption of Automated Ground Vehicle Systems
  • ACRP 11-02/Task 37 - Periodic Report on Transformative Technology at Airports
  • ACRP 11-08(20-01) - ACRP Insight Event–Future of Aviation
  • ACRP Synthesis 11-03/Topic S01-26 - The Landscape of the FBO Industry in 2022
  • ACRP Synthesis 11-03/Topic S02-22 - Airport Programs that Reduce Landside Vehicle Carbon Emissions
  • ACRP Synthesis 11-03/Topic S03-17 - Airport Centric Advanced Air Mobility Market Study
  • ACRP Synthesis 11-03/Topic S04-26 - Managing a Flight Diversion with an Emergency Response at Small, Non-Hub, or General Aviation Airports
  • ACRP Synthesis 11-03/Topic S10-19 - Airport Landside Operations Data and Collection Method
  • ACRP Synthesis 11-03/Topic S10-20 - Resilience Partnerships with the Air National Guard and other Military Organizations
  • BTS/CRP BTS-06 - MPO and SHSO Coordination on Behavioral Traffic Safety
  • NCHRP 02-26 - Implementation of Life-Cycle Planning Analysis in a Transportation Asset Management Framework
  • NCHRP 03-114(01) - Planning and Evaluating Active Traffic Management Strategies
  • NCHRP 03-126 - Transportation Operations Manual
  • NCHRP 03-128 - Business Intelligence Techniques for Transportation Agency Decision Making
  • NCHRP 03-129 - Essential Communications
  • NCHRP 03-134 - Determination of Encroachment Conditions in Work Zones
- NCHRP 03-135 - Wrong-Way Driving Solutions, Policy, and Guidance
- NCHRP 03-136 - Evaluating the Performance of Right-Turn-On-Red Operation at Signalized Intersections (with single and dual right-turn lanes)
- NCHRP 03-138 - Application of Big Data Approaches for Traffic Incident Management (TIM)
- NCHRP 03-139 - Next Generation of the USLIMITS2 Speed Limit Setting Expert System
- NCHRP 03-142 - Evaluating the Impacts of Real-Time Warnings and Variable Speed Limits on Safety and Travel Reliability during Weather Events
- NCHRP 03-144 - Leveraging Existing Traffic Signal Assets to Obtain Quality Traffic Counts and Enhance Transportation Monitoring Programs
- NCHRP 05-22A - Gaps and Emerging Technologies in the Application of Solid-State Roadway Lighting
- NCHRP 07-30 - Methods for Assigning Short-Duration Traffic Volume Counts to Adjustment Factor Groups for Estimating AADT
- NCHRP 08-115 - Guidebook for Data and Information Systems for Transportation Asset Management
- NCHRP 08-132 - Accessing America's Great Outdoors: Forecasting Recreational Travel Demand
- NCHRP 08-135 - Reliability and Quality of Service Evaluation Methods for Rural Highways
- NCHRP 08-140 - Guide for Truck Parking Information Management Systems
- NCHRP 08-145 - Utilizing Cooperative Automated Transportation (CAT) Data to Enhance the Use of Freeway Operational Strategies
- NCHRP 08-147 - Improving Public Transportation in Rural Areas and Tribal Communities
- NCHRP 08-149 - Estimating Benefits of Closing Gaps in Active Transportation Networks
- NCHRP 08-157 - Best Practices for Data Fusion of Probe and Point Detector Data
- NCHRP 10-109 - Modern Solutions to Safe and Efficient Work Zone Travel
- NCHRP 14-42 - Determining the Impact of Connected and Automated Vehicle Technology on State DOT Maintenance Programs
- NCHRP 15-66 - Operational Performance and Safety Effects of Arterial Weaving Sections
- NCHRP 15-73 - Design Options to Reduce Turning Motor Vehicle–Bicycle Conflicts at Intersections
- NCHRP 17-86 - Estimating Effectiveness of Safety Treatments in the Absence of Crash Data
- NCHRP 17-88 - Roadside Encroachment Database Development and Analysis
- NCHRP 17-92 - Developing Safety Performance Functions for Rural Two-Lane Highways that Incorporate Speed Measures
- NCHRP 17-95 - Crash Modification Factors (CMFs) for Intelligent Transportation System (ITS) Applications
- NCHRP 17-98 - Guide for Intersection Control Evaluation
- NCHRP 17-99 - Safety Effectiveness Assessment of Advanced Highway-Rail Grade Crossing Improvements
- NCHRP 17-101 - Assessing Safety Effectiveness of Treatments and Technologies at Highway-Rail Grade Crossings
- NCHRP 17-108 - Developing Crash Modification Factors for Alternative Intersections
- NCHRP 20-24(138) - Collective and Individual Actions for State Departments of Transportation Envisioning and Realizing the Next Era of America’s Transportation Infrastructure – Phase I
- NCHRP 20-50(21) - Enhancements of Climatic Inputs and Related Models for Pavement ME Using LTPP Climate Tool (MERRA-2)
- NCHRP 20-65/Task 81 - Best Practices in Rural Service Assessment
- NCHRP 20-102(16) - Impacts of Connected, Automated Vehicle Technologies on Traffic Incident Management Response
- NCHRP 20-102(28) - Preparing Transportation Agencies for Connected and Automated Vehicles in Work Zones
- NCHRP 20-123(12) - System Mobility and Emerging Technologies (SMET): Strategic Planning Session and Research Roadmap Development
- NCHRP 22-43 - Proposed AASHTO Guidelines for Implementation of MASH for Sign Supports, Breakaway Poles, and Work Zone Traffic Control Devices
- NCHRP 23-13(01) - Telecommuting, Remote Work, and Hybrid Schedules: Managing the Shift to a Flexible Work Future
- NCHRP 23-13(05) - Regulatory Relief of Commercial Vehicle Weight Requirements for Emergency Transportation of Critical Commodities
- NCHRP 23-20 - Guidebook for Implementation of UAS Operational Capabilities
- NCHRP IDEA 20-30/IDEA 225 - An Automated System for Large-Scale Intersection Marking Data Collection and Condition Assessment
- NCHRP Synthesis 20-05/Topic 53-10 - Identifying the Current Practice of Contrast Pavement Markings by Departments of Transportation
- NCHRP Synthesis 20-05/Topic 53-16 - Critical Findings for Tunnel Functional Systems
• **Choice Models**

- NCHRP Synthesis 20-05/Topic 54-05 - Practices for Statewide and MPO Coordination
- NCHRP Synthesis 20-05/Topic 54-13 - Truck Escape Ramp Design and Operation
- TCRP B-49 - Improving Public Transportation in Rural Areas and Tribal Communities
- TCRP Synthesis I-07/Topic SB-36 - Dynamic Optimization on ADA Paratransit Service
- TCRP Synthesis I-07/Topic SG-20 - Performance Metrics in Third Party Contracts for Bus Operations and Maintenance
- Transit IDEA I-04/IDEA 99 – Bike Love

**Upcoming Projects**

- ACRP 02-98 - Airport Energy Resiliency Primer and Roadmap
- ACRP 03-69 - Identifying Congestion and Safety Risks Due to Heterogeneous Airport Curbside Activity and Remedial Solutions
- ACRP 03-70 - Incorporating Emerging Technologies into Airport In-Terminal Concession Programs
- ACRP 03-74 - ACRP WebResource to Support Research into Air Traveler Choice Models
- ACRP 06-08 - Human Factors in Airport Operations
- ACRP 10-33 - Incorporating Emerging Transportation and Ground Access Technologies at Airports
- ACRP 10-35 - Automatic Dependent Surveillance-Broadcast (ADS-B) Airport Traffic Count Validation and Recommendations
- ACRP 11-08[20(02)] - ACRP Insight Event--On-Demand Aviation Services for Passengers and Goods
- NCHRP 03-143 - Warrants for a Pedestrian Traffic Control Signal and for Other Pedestrian Traffic Control Devices
- NCHRP 03-145 - National Traffic Sensor System Evaluation Program
- NCHRP 03-147 - LED Applications on Traffic Control Devices
- NCHRP 03-146 - Guide for Transportation Operations Manual Implementation
- NCHRP 03-148 - Capabilities, Requirements, Planning, and Preparing to Virtually Operate Traffic Management Systems (TMS)
- NCHRP 05-27 - Practitioners’ Guide for Lighting at Innovative Intersections/Interchanges, including Roundabouts
- NCHRP 07-34 - Artificial Intelligence for Transportation Systems Management and Operations Applications
- NCHRP 08-130 - Best Practices in Coordination of Public Transit and Ride Sharing
- NCHRP 08-138 - Guide to the Integration of Transportation Systems Management and Operations into Transportation Asset Management
- NCHRP 08-141 - A Guidebook for Local Truck Parking Regulations
- NCHRP 08-143 - Guide to the Application of Spatial Segmentation on Travel Time Reliability Measures
- NCHRP 08-144 - Best Practices in Determining Rural Transit Fleet Size – How to Provide Service for Changing Demographics of Rural Ridership (Right-sizing of Rural Transit Fleets)
- NCHRP 08-146 - Integrating Resiliency into Transportation System Operations
- NCHRP 15-79 - Development of Guidance for Non-Standard Roadside Hardware Installations
- NCHRP 15-82 - Effects of Operating Speed and Posted Speed Limit in Conjunction with Roadway Geometric Design on Safety Performance for High-Speed Rural Highways and Freeways
- NCHRP 17-111 - Speed Management Strategies to Improve Pedestrian and Bicyclist Safety on Arterials and Higher-Speed Roadways
- NCHRP 17-114 - Integrated Strategies for Managing High Travel Speeds
- NCHRP 17-118 - Understanding the Impacts of Operational Changes on Safety Performance
- NCHRP 17-119 - Conflict-Based Crash Prediction Method for Intersections
- NCHRP 17-122 - Evaluation of Trespassing Detection and Warning Systems in the Vicinity of Highway-Rail Grade Crossings
- NCHRP 19-23 - Revenue-Related Strategies for New Mobility Options
- NCHRP 20-123(18) - Development of a New Transportation System Operations Strategic Plan
- NCHRP 22-42 - Impact Performance Assessment of Barrier Performance at High Speeds
- NCHRP 23-13(04) - Scoping Supply Chain Challenges and Solutions amid COVID-19
- NCHRP 23-13(06) - Assessing the Equity and Workforce Mobility Implications of the Expansion of E-Commerce and Direct-to-Consumer Delivery Services
- NCHRP 23-19 - Practices for Transportation Agency Procurement and Management of Advanced Technologies
- NCHRP 23-28 - Changes to 4.9 Ghz Spectrum Access and Authorization – What You Need to Know
- TCRP B-50 - Accessible Public Bus and Rail Passenger Information for Riders with Vision Disabilities
TCRP J-11/Task 44 - Improving Access to Public Transportation Services and Facilities with Transit-Oriented Complete Streets

Reports from the National Academies Press on Operations & Traffic Management

- Planning the Future Space Weather Operations and Research Infrastructure
- Enhancing Operational Effectiveness of U.S. Naval Forces in Highly Degraded Environments: Autonomy and Artificial Intelligence in Unmanned Aircraft Systems
- Enabling DoD’s Test Ranges and Infrastructure to Meet Threats and Operational Needs in the 21st Century
- Aviation After a Year of Pandemic

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- ACP30 - Vehicle-Highway Automation
- ACP35 - Managed Lanes
- ACP40 - Highway Capacity and Quality of Service
- ACP50 - Traffic Flow Theory and Characteristics
- ACP55 - Traffic Control Devices
- ACP60 - Access Management
- ACP80 - Traffic Simulation
- AKD10 - Performance Effects of Geometric Design
- AKD80 - Roundabouts and other Intersection Design and Control Strategies
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- AV095 - New Users of Shared Airspace

Task Forces - Search for task force under committee here

Policy Study

- B0024 - Research and Technology Coordinating Committee (FHWA)

CRP Panels

- D08119 - Developing Data Standards and Guidance for Transportation Planning and Traffic Operations – Phase I
- D08138 - Connecting Transportation Asset Management (TAM) and Transportation System and Management Operations (TSMO)
- D08146 - Integrating Resiliency into Transportation System Operations
- D17101 - Applying the Safe System Approach to Transportation Planning, Design, and Operations in the United States
- D2007424 - Best Practices for the Operations of Movable Bridges from Remote Locations
- D2010212 - Business Models to Facilitate Deployment of CV Infrastructure to Support AV Operations
- D2012318 - Development of a New Transportation System Operations Strategic Plan
- D0135 - Transportation Network Companies (TNCs): Impacts to Airport Revenues and Operations
- DA0289 - Industry Survey - Benefits and Costs for Airport Noise and Operations Monitoring Systems
- DA0348 - Advanced Ground Vehicle Technologies (AGVT) for Airside Operations
- DA0363 - Modernizing Air Cargo Operations and Infrastructure at U.S. Airports
- DA0608 - Human Factors in Airport Operations
- DA0717 - Update ACTP Report 40: Airport Curbside and Terminal Area Roadway Operations
- DA0921 - Guidelines for the Effective Transition of Asset Data from Design/Construction to Operations and Maintenance
- DA1031 - Guidebook for Virtual Airport Ramp Control Operations Facilities
- DA1032 - Airside Automated Ground Vehicle Technology (AGVT) Demonstration to Support Airport Operations
- SAS1016 - Airport Operations Training at Small Airports
- SAS1019 - Airport Landside Operations Data and Collection Method
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