

# U.S. DOT Volpe National Transportation Systems Center

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# Recent U.S. DOT Volpe Center Reports

#### Automated Vehicles

Building Feedback into Modelling Impacts of Automated Vehicles: Developing a Consensus Model and Quantitative Tool

Considerations for Evaluating Automated Transit Bus Programs

Hazard and Safety Analysis of Automated Transit Bus Applications, Final Report

Intelligent Transportation Systems: Findings from the Small Urban and Rural Transit Provider Survey, Final Report

Performance Comparisons of Cooperative and Adaptive Cruise Control Testing

Safety of the Intended Functionality of Lane-Centering and Lane-Changing Maneuvers of a Generic Level 3 Highway Chauffeur System

System Dynamics Perspective for Automated Vehicle Impact Assessment

Transit Bus Automation Market Assessment

Transit Bus Automation: State and Local Policy Scan, Final Report

Understanding Surveys of Public Sentiment Regarding Automated Vehicles: Summary of Results to Date and Implications of Past Research on the Dynamics of Consumer Adoption

#### Aviation Safety

Flight Deck Human Factors Issues for Trajectory Based Operations

Flight Deck Human Factors Issues in Lateral Deviations during North Atlantic (NAT) Flight Operations

Forces to Flyers Pilot Training Demonstration Evaluation and Research on Pilot Career Pathways

Operational Complexity in Performance-Based Navigation (PBN) Arrival and Approach Instrument Flight Procedures (IFPs)

# COVID-19

Reductions in Traffic-Related Black Carbon and Ultrafine Particle Number Concentrations in an Urban Neighborhood During the COVID-19 Pandemic

Travel Impacts of the COVID-19 Pandemic Preliminary Analysis

Virtual Public Involvement Technical Assistance Workshop Summary Report: California Department of Transportation Virtual Workshop (Caltrans)

# Crash Avoidance

Baseline Analysis of Driver Performance at Intersections for the Left-Turn Assist and Intersection Movement Assist Applications

Pre-Crash Scenario Characteristics of Motorcycle Crashes for Crash Avoidance Research

# Cybersecurity

Government Fleet and Public Sector Electric Vehicle Supply Equipment (EVSE) Cybersecurity Best Practices and Procurement Language Report

# Electric Vehicles

Electric Vehicle Charging Gap Analysis: Summary Memo and Instructions for Automated Tool

Functional Safety Assessment of a Generic Accelerator Control System With Electronic Throttle Control in Electric Vehicles

#### Infrastructure

Evaluation Methods and Techniques: Advanced Transportation and Congestion Management Technologies Deployment Program

The Importance of Highways to U.S. Agriculture

Noise Levels Research Synthesis: Review and Updates to Findings in Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety

Quieter Pavement Project—Death Valley National Park: Interim Report for One-Year Post-Treatment Conditions

Quieter Pavement Project—Death Valley National Park: Interim Report for Post-Treatment Conditions, 1-Month Age

Technology Transfer Case Study: Improving Work Zone Safety Technologies in Arizona and Kentucky

Traffic Noise Model 3.0 - Technical Manual

# Motor Carriers—Safety

FMCSA Safety Program Effectiveness Measurement: Carrier Intervention Effectiveness Model (CIEM), Version 1.2 Report for Fiscal Year 2016 Interventions

A Literature Review of Lateral Protection Devices on Trucks Intended for Reducing Pedestrian and Cyclist Fatalities

# Railroads—Human Factors

Human Factors Evaluation of an Experimental Locomotive Engineer Crewstation

Preventing Stop Signal Overruns: Good Practices for Passenger Railroads

Stop Signal Overruns (SSO) & Near Miss: An Investigation Template for Passenger Railroads

Teamwork in Railroad Operations and Implications for New Technology

# Railroads—Infrastructure

Analysis of Non-Track-Circuit Highway-Rail Grade Crossing Train Detection Technologies

Quick Calibration of Fracture Behaviors in TC128 Steel for Finite Element Modeling

Side Impact Test and Analyses of a DOT-111 (CPC-1232) Tank Car

Side Impact Test and Analyses of a DOT-105 Tank Car

# Railroads—Trespassing

Consistent Trespasser Intent Determination Criteria Pilot Project

Law Enforcement Strategies for Reducing Trespassing—Pilot Program

#### Supersonic Flight

IFlyQuiet Community Engagement Guide

Quiet Supersonic Flights 2018 (QSF18) Test: Galveston, Texas Risk Reduction for Future Community Testing with a Low-Boom Flight Demonstration Vehicle

Sonic Boom Prediction Workshop 3: Propagation Modeling Using PCBoom

# Sustainability—Transportation

#### Planning

Asset Management Field Data Collection Tools: Case Studies of Select Transportation Agencies

Fort Stanwix National Monument: Transportation Study

Mount Vernon Trail Corridor Study: George Washington Memorial Parkway

Goals, Policies, Recommendations, and Action Items from Columbia River Gorge National Scenic Area Transportation Plans and Reports

Kenai Fjords National Park: Exit Glacier Area Summary Transportation Feasibility Study

National Park Service Morristown National Historical Park Alternative Transportation Study

Pitkin County Maroon Bells Survey Report

#### Sustainability-Mobility

Congestion Mitigation and Air Quality Improvement Program (CMAQ) Cost-Effectiveness Tables Report

General Modeling Network Specification: Documentation, Software and Data

Mobility Payment Integration: State-of-the-Practice Scan

#### Unmanned Aircraft Systems-

#### Aviation

Blockchain for Unmanned Aircraft Systems

Noise Measurement Report: Unconventional Aircraft - Choctaw Nation of Oklahoma; July 2019

#### Unmanned Aircraft Systems—Surface

Trespasser Detection on Railroad Property Using Unmanned Aerial Vehicles

Use Cases for Unmanned Aircraft Systems (UAS) in Public Transportation Systems

Using an Unmanned Aerial Vehicle to Produce Accurate Grade Crossing Profile Data

#### Questions? Please contact:

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