



Strengthening Mobility and Revolutionizing Transportation (SMART) Grants Program

Strengthening Mobility and Revolutionizing Transportation

Fiscal Year 2023 Planning and Prototyping Grants by State

Alabama

Recipient	Project Name	Funding	Project Type	Project Summary
City of Talladega, Alabama	Enhancing Safety & Equitable Accessibility in Talladega By Employing Latest Technologies (ESEATBELT)	\$1,123,432	Sensors	Update 41 signalized intersections with smart traffic signal technologies in cooperation with the Alabama Institute for the Deaf and Blind.

California

Recipient	Project Name	Funding	Project Type	Project Summary
City of Anaheim	Improving Safety & Efficiency through Connected Intersections Technologies in Anaheim	\$2,000,000	Connected & Automated Vehicles	Use off-the-shelf V2X technologies and automated traffic signal performance measures to test the effectiveness of signal priority and red-light violation warning use cases at signalized intersections on two corridors.
City of Fontana	Leveraging Advanced Adaptive Signal Timing for Freight to Improve Safety, Climate, and Mobility	\$2,000,000	Smart Technology Traffic Signals	Compare RSU and CV2X adaptive signal timing technologies on three corridors to balance freight movement with resident traffic.
Contra Costa Transportation Authority	Integrated Open Data Platform for Multimodal Accessible Transportation (OPTIMAT)	\$1,096,500	Transit Innovation	Develop and test an integrated, open standards-based, platform for finding, booking, and using paratransit options across 26 public and private organizations.



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Los Angeles County Metropolitan Transportation Authority	Rail Crossing Gate Optimization Project	\$2,000,000	Transit Innovation	Upgrade rail crossing gate detectors with wireless technology and improve detection of pedestrians, drivers, and cyclists to reduce unnecessary gate downtime.
San Francisco Bay Area Rapid Transit District	BART Leveraging GTFS Pathways for Improved Wayfinding and Accessibility	\$2,000,000	Transit Innovation	Deploy digital wayfinding aids and station facility information, integrated and shared through public-facing endpoints in an open data standard.
Southern California Regional Rail Authority	Smart Track Intrusion Systems and Positive Train Control	\$1,300,000	Transit Innovation	Deploy AI for track intrusion detection, paired with positive train control systems, on a 1.5mi stretch of regional railway in a dense urban area.

Colorado

Recipient	Project Name	Funding	Project Type	Project Summary
Colorado Department of Transportation	The Coordinated Adaptive Ramp Metering (CARM) Expansion Project (Project)	\$1,473,277	Sensors	Deploy coordinated, automated, and adaptive ramp metering technologies to four highway onramp locations.
Denver Regional Council of Governments	DRCOG RideAlliance Human Service Transportation Trip Exchange Hub	\$975,486	Transit Innovation	Develop an integrated backend system to streamline and scale Denver's demand-response transportation services.

District of Columbia

Recipient	Project Name	Funding	Project Type	Project Summary
Washington Metropolitan Area Transit Authority	WMATA - Transit Data Standards and Analysis Infrastructure Framework	\$2,000,000	Transit Innovation	Develop and pilot an open-source data standard for transit operational data.



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Florida

Recipient	Project Name	Funding	Project Type	Project Summary
Broward Metropolitan Planning Organization	SMART METRO	\$2,000,000	Sensors	Develop a digital twin of transportation, land use, and infrastructure data to support scenario modeling and infrastructure planning.

Georgia

Recipient	Project Name	Funding	Project Type	Project Summary
Henry County Government	Henry County Connected Vehicle Pilot and Plan Development	\$825,000	Connected & Automated Vehicles	Test CV2X technologies for emergency vehicle preemption at intersections.

Iowa

Recipient	Project Name	Funding	Project Type	Project Summary
East Central Intergovernmental Association	Metro Dubuque Traffic Data Aggregation for Connected Vehicles project	\$2,000,000	Connected & Automated Vehicles	Develop an open CV2X interface to disseminate near-real time transportation information across a 3-state area.

Illinois

Recipient	Project Name	Funding	Project Type	Project Summary
Chicago Transit Authority (CTA)	Bus Queue Jump Signal Pilot Project	\$1,500,000	Transit Innovation	Implement bus queue jump infrastructure and systems at 10 intersections.



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Louisiana

Recipient	Project Name	Funding	Project Type	Project Summary
Shreveport Transit Management, Inc (City of Shreveport)	SporTran EMPOWER (Equitable Mobility, Public Outreach, Workforce Education, and Resilience)	\$995,400	Connected & Automated Vehicles	Develop curriculum and training for AV and EV transit operations in partnership with labor and workforce development partners, and engage community organizations, in anticipation of piloting autonomous, first-and-last-mile microtransit shuttle service.

Massachusetts

Recipient	Project Name	Funding	Project Type	Project Summary
City of Boston, Massachusetts	Digitizing Boston's Curbs Via Machine Learning	\$1,983,872	Curb Management	Develop a curb data inventory, using computer vision and machine learning to digitize street signs and update the inventory in real time.

Maryland

Recipient	Project Name	Funding	Project Type	Project Summary
Maryland Department of Planning	Maryland Eastern Shore Drone Medical Delivery	\$1,766,757	Uncrewed Aircraft System	Deploy uncrewed aerial systems to provide medical package deliveries to residents on the Eastern Shore and islands in the Chesapeake Bay.
Maryland Transit Administration (MTA)	MTA Cloud-Based Signal Priority	\$1,276,000	Smart Technology Traffic Signals	Install cloud-based transit signal priority solutions at 90 intersections on four high-frequency bus lines.
State Highway Administration of Maryland Department of Transportation	Real-time work zone speed management with multi-source data	\$1,610,000	Uncrewed Aircraft System	Collect speed data via uncrewed aerial systems to support real-time speed management in work zones.



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Michigan

Recipient	Project Name	Funding	Project Type	Project Summary
Road Commission for Oakland County	Online Automatic Retiming of Traffic Signals Using Vehicle Trajectory Data	\$1,450,000	Smart Technology Traffic Signals	Leverage an automated algorithm for adaptive signal retiming at 30-40 intersections based on vehicle trajectory data.

New Hampshire

Recipient	Project Name	Funding	Project Type	Project Summary
State of New Hampshire	Moving Towards a Smart, Connected, and Interoperable Traffic Monitoring System	\$1,899,093	Sensors	Augment inductive loop detectors with IoT and AI to collect highly nuanced traffic, vehicle type, and weigh-in-motion data.

New Jersey

Recipient	Project Name	Funding	Project Type	Project Summary
New Jersey Transit Corporation	Artificial Intelligence for Light Rail and Grade Crossing Safety	\$1,625,095	Transit Innovation	Install AI video analytics to improve detection and safety at at-grade light rail crossings to inform safety countermeasures.

Nevada

Recipient	Project Name	Funding	Project Type	Project Summary
City of Las Vegas	SMARTer and Safer Way to Cross: AI-Powered Pedestrian Detection Systems	\$1,400,000	Sensors	Deploy and test passive pedestrian detection technology and responsive signals at 17 locations in a high-pedestrian traffic area.



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New York

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New York State Metropolitan Transportation Authority	NY MTA - Automated Train Inspection Portal	\$2,000,000	Sensors	Integrated railcar inspection system that would utilize a suite of sensors and software systems to create automated alerts of undesirable conditions.

Ohio

Recipient	Project Name	Funding	Project Type	Project Summary
Stark Area Regional Transit Authority	SMART Rider	\$1,975,000	Connected & Automated Vehicles	Equip transit vehicles with automated driver assistance system for collision avoidance.

Pennsylvania

Recipient	Project Name	Funding	Project Type	Project Summary
Pennsylvania Department of Transportation	V2X Data Exchange Vehicle Integration	\$1,784,556	Connected & Automated Vehicles	Pilot a V2X system for curve speed warnings via cellular network to drivers.
Southern Alleghenies Planning & Development Commission	Emergency Life Saving through Multi-modal Mobility (ELSa-M3)	\$1,925,256	Uncrewed Aircraft System	Use of uncrewed aerial systems to provide emergency response supplies in a rural region.



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Puerto Rico

Recipient	Project Name	Funding	Project Type	Project Summary
Municipality of Canoanitas	Enhancing Safety, Efficiency, and Equity Through Data-Driven Solutions for Canoanitas Road System	\$1,150,000	Sensors	Develop a transportation asset inventory and system model through sensor-based data collection to inform infrastructure investments and public wayfinding.

South Carolina

Recipient	Project Name	Funding	Project Type	Project Summary
City of Charleston	SMART Phase 1: Planning & Prototyping Project – Calhoun Street Corridor in Charleston, SC	\$914,550	Sensors	Integrated sensors and responsive signaling at key intersections to predict cycle/pedestrian crossings and warn drivers.

Tennessee

Recipient	Project Name	Funding	Project Type	Project Summary
City of Chattanooga	Advancing Interoperable Connectivity for Improving Safety and Operations in the City of Chattanooga	\$2,000,000	Connected & Automated Vehicles	Implement a CV2X solution for detecting vulnerable road users at midblock crossings.

Texas

Recipient	Project Name	Funding	Project Type	Project Summary
The City of Fort Worth	Fort Worth Intelligent Micro-Weather Network for AV and Advanced Air Mobility SMART Grant	\$2,000,000	Sensors	Deploy a network of ground, low altitude, and roadway sensors for micro-weather modeling, to improve users of the Fort Worth Smart Port.



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Washington

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City of Bellevue	Real-time Traffic Signal Safety Intervention (RTSSI) project	\$1,426,531	Sensors	Deploy sensors and smart traffic signals to make real-time safety improvements at intersections, focused on elderly pedestrians.
Confederated Tribes and Band of the Yakama Nation	Improve Roadway and Intersection Safety for Tribal and Communities using Technologies	\$1,525,133	Sensors	Deploy a purpose-built sensing and alerting system on US97 to collect key safety and road condition data and send safety messages in real time.

Wyoming

Recipient	Project Name	Funding	Project Type	Project Summary
Wyoming Department of Transportation	Wyoming's Work Zone Statewide Enterprise Data Environment	\$1,500,000	Work Zone	Modernize the work zone data environment for streamlined data collection and management.