SMART

Strengthening Mobility and Revolutionizing Transportation (SMART) Grants Program

Strengthening Mobility and Revolutionizing Transportation

Fiscal Year 2022 Planning and Prototyping Grants by State

Alaska

Recipient	Project Name	Funding	Project Type	Project Summary
Alaska Department of Transportation & Public Facilities	Alaska Rural Remote Operations Workplan (ARROW Program)	$1,944,563	UAS	Use drone technology to conduct infrastructure inspections and gather situational awareness data essential to Rural Alaska's way of life on snow, ice, and overland trails, partnering with Alaska Native and Rural Villages.

Alabama

Recipient	Project Name	Funding	Project Type	Project Summary
Regional Planning Commission of Greater Birmingham	Community-driven Regional Mobility Engine for Accessible and Equitable Multimodal Public Transportation in Central Alabama	$1,492,204	Transit Innovation	Convert existing public transportation systems in Central Alabama into an integrated mobility system leveraging cyberinfrastructure, route optimization and planning, service integration, trip dispatching, and more.

Arizona

Recipient	Project Name	Funding	Project Type	Project Summary
Arizona Commerce Authority	DRIVE Arizona: Digitizing Roadways with Innovative V2X Ecosystems for a safe, inclusive Arizona	$1,747,708	Connected Vehicles	Demonstrate Back of Queue (BOQ) warning, Work Zone warning, and Transit Signal Priority (TSP) along Phoenix's I-17 and I-10 corridors.
City of Phoenix Street Transportation	City of Phoenix Passive Detection Technology for Bikes, Pedestrians and Motorists	$1,965,000	Sensors	Implement passive detection for cyclists and pedestrians at existing HAWK signals as well as for vehicles, all along Phoenix's Grand Canal.

SMART

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California

Recipient	Project Name	Funding	Project Type	Project Summary
California Department of Transportation, Division of Construction	Deploying UAS Innovations for Remote, Autonomous Infrastructure Construction Inspection to Enhance Safety, Save Time, Reduce Costs and Lessen Carbon Emissions	$430,036	UAS	Use drone technology for construction site condition inspections to support Caltrans pilot safety and operations at the Butte City Bridge Replacement project site and the East Otay Port of Entry project site in California.
City of Los Angeles	Code the Curb	$2,000,000	Curb Management	Create a digital inventory of physical curb lane assets to improve management of the curb lane in Downtown Los Angeles.
City of San Jose	SMART Curbs: City of San Jose's Curb Digitization and Management Pilot	$1,999,412	Curb Management	Collect curb inventory and utilization data to monitor curb uses, reallocate curb spaces, and provide real-time curb use information to users in San Jose.
Los Angeles County Metropolitan Transportation Authority	Event Integrated Ticketing Platform	$2,000,000	Transit Innovation	Integrate transit trip-planning with the event ticketing process through an adaptable web program for safe access to events in Los Angeles, including the upcoming Olympic and Paralympic Games.
Orange County Transportation Authority	Pilot Innovative Cloud-Based Transit Signal Priority	$1,600,000	Smart Traffic Signals	Deploy a cloud-based Transit Signal Priority (TSP) system by integrating existing signal systems, new multimodal ITS devices, and proactive signal operations to improve on-time arrive of OCTA's Harbor Boulevard *Bravo!* Rapid Bus Route.
San Francisco Municipal Transportation Agency	The Digital Curb Program: Revolutionizing Curb Management in San Francisco	$1,999,607	Curb Management	Create and disseminate a digital curb inventory throughout San Francisco that includes location-specific and up-to-date

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				regulations via an open data feed.
Santa Clara Valley Transportation Authority	Wheels on the Bus – Real-Time Data (RTD)	$500,616	Transit Innovation	Evaluate technologies capable of collecting and disseminating real-time use data for front-mounted bus bike racks and interior mobility device securement equipment on VTA's bus route network.
Santa Clara Valley Transportation Authority	Transit Reliability Improvement and Performance System (TRIPS)	$1,692,328	Smart Traffic Signals	Implement a multi-jurisdictional and connected Transit Signal Priority (TSP) system across Santa Clara County.

Colorado

Recipient	Project Name	Funding	Project Type	Project Summary
City of Colorado Springs	Perception-Based Adaptive Traffic Management and Data Sharing	$1,776,200	Smart Traffic Signals	Plan, prototype, and test a multi-dimensional Perception-Based Adaptive Traffic Management and Data Sharing system in the Pikes Peak Region, partnering with academia, industry, and the National Renewable Energy Laboratory (NREL).
City of Fort Collins	Smart Grid Electric Vehicle Charge Management Solution	$1,059,037	Smart Grid	Demonstrate a smart grid electric vehicle (EV) charge management solution for the City of Fort Collins' EV fleet, through a managed charging software pilot, a municipal fleet electrification standards framework, and a study on value to city-owned utility ratepayers.
City of Greeley	Connected Greeley – Emergency Vehicle Preemption (CG-EVP) Pilot	$1,382,150	Smart Traffic Signals	Provide Emergency Vehicle Preemption (EVP), snowplow priority, and a Vulnerable Road User (VRU) detection and warning system at intersections in Greeley.

Colorado Department of Transportation	ATMA for Work Zone Safety	$1,891,343	Work Zone Safety	Prototype innovative autonomous truck mounted attenuator (ATMA) technology to shield highway maintenance workers from errant drivers in a four-state partnership led by Colorado DOT.

Connecticut

Recipient	Project Name	Funding	Project Type	Project Summary
Connecticut Department of Transportation	Connecticut Integrated Transit Mobility Project (CT-ITMP)	$2,000,000	Transit Innovation	Develop a statewide multimodal public transit fare payment application.

Delaware

Recipient	Project Name	Funding	Project Type	Project Summary
Delaware Department of Transportation	Future-Ready Delaware: SMART Technology Enhancements for Safe, Resilient Intersections	$1,990,711	Connected Vehicles	Deploy cloud-based vehicle-to-everything technology (CbV2X) and optimized signal timing along statewide roadways.

Florida

Recipient	Project Name	Funding	Project Type	Project Summary
Miami-Dade County	A MicroFreight Approach for Safer Streets	$1,985,000	Curb Management	Introduce a platform of integrated data, networked sensors, and digital infrastructure to enable and scale safe, zero-emission last-mile freight and goods deliveries in Miami-Dade County.

Georgia

Recipient	Project Name	Funding	Project Type	Project Summary
Chatham Area Transit	CAT EV Zonal Micro Project	$1,201,736	Transit Innovation	Deploy an On Demand Multimodal Transportation System (ODMTS), introducing first mile-last mile microtransit to CAT's existing fixed route and paratransit service in the Savannah area.
Gwinnett County Board of Commissioners	Singleton Road Corridor Technology Improvements	$1,053,400	Connected Vehicles	Prototype safety technologies along Gwinnett County's Singleton Road Corridor, including passive pedestrian detection and Transit Signal Priority.

Idaho

Recipient	Project Name	Funding	Project Type	Project Summary
Bannock Transportation Planning Organization	Innovative Transportation Solutions Project	$1,317,074	Smart Traffic Signals	Install smart, sensor-based traffic signals and monitoring across the Yellowstone Corridor in Idaho.

Illinois

Recipient	Project Name	Funding	Project Type	Project Summary
Illinois Department of Transportation	Integrating Work Zone Data Exchanges In Illinois for a Safer Highway System	$979,500	Work Zone Safety	Develop a framework for the advancement of Workzone Data Exchange-compliant systems in Illinois.

Kansas

Recipient	Project Name	Funding	Project Type	Project Summary
North Central Regional Planning Commission	Smart Counties in Kansas	$1,031,730	UAS	Prototype a GIS-based platform that integrates local infrastructure assets to provide innovative data, monitor asset conditions, and

				inform technological solutions in Kansas.

Kentucky

Recipient	Project Name	Funding	Project Type	Project Summary
Louisville Metro Government	ViaSMART—a Safe Streets & Viaducts proof of concept (PoC)	$1,999,481	Sensors	Integrate an intelligent, sensor-based platform that can report real-time data on flooding and congestion with existing advanced transportation, water, and communication technologies in Louisville.

Massachusetts

Recipient	Project Name	Funding	Project Type	Project Summary
City of Brockton	Downtown Brockton Transportation Technology Project	$1,496,630	Smart Traffic Signals	Install a traffic management system that will also assess air quality, road temperatures and pedestrian safety in Brockton.
Massachusetts Department of Transportation	Planning a Smart Microgrid that Generates and Distributes Reliable Power at Cape Cod Gateway Airport to Reduce Emissions and Increase Energy Independence While Supporting the Disadvantaged Community	$1,950,000	Smart Grid	Plan, permit, and design a smart microgrid system at Cape Cod Gateway Airport (HYA).
Massachusetts Department of Transportation	Improving Rail Safety, Efficiency, and Climate Resilience by Using Drones and Sensors to Monitor and Analyze Railroad Infrastructure Threatened by Ground Water Variability	$1,979,615	UAS	Use drone technology for environmental sensing in Cape Cod, MA.

MetroWest Regional Transit Authority	Blandin Energy and Sustainable Storage Technology (BESST)	$985,000	Smart Grid	Install solar power and battery banks for on-site energy and to power MWRTA's fleet.

Maine

Recipient	Project Name	Funding	Project Type	Project Summary
Biddeford Saco Old Orchard Beach Transit Committee	BSOOB Transit Smart Grid Transition	$350,000	Smart Grid	Demonstrate renewable energy production, on-site energy storage, and electricity load management for Greater Portland's transit agency.

Michigan

Recipient	Project Name	Funding	Project Type	Project Summary
City of Detroit	Detroit Mobility Optimization through Data for Equity and Safety (Detroit MODES)	$2,000,000	Sensors	Create smart intersections by leveraging existing traffic camera network to deploy AI software solutions which can predict and prevent traffic accidents in Detroit.
Michigan Department of Transportation	Advancing Rural Mobility: Michigan Public Transit Open Data Standards Program	$1,310,447	Transit Innovation	Leverage open standard data to make real-time public transit information accessible in rural Michigan.
Michigan Department of Transportation	Blue Water Bridge International Smart Freight Corridor	$1,806,218	International Commerce	Implement a proof of concept of a smart corridor for truck-borne goods movement across Port Huron, Michigan's Blue Water Bridge at the U.S.-Canadian border.
Road Commission for Oakland County	Leading in Sustainable Safety with V2X technology in Oakland County Michigan	$2,000,000	Connected Vehicles	Create a framework for deploying C-V2X in a sustainable manner.

Minnesota

Recipient	Project Name	Funding	Project Type	Project Summary

City of Minneapolis	Open Data Approach to Curbside Management	$1,975,000	Curb Management	Develop a collection of multi-faceted, open-source APIs to communicate Minneapolis' policies and regulations, real-time changes to curb usage, and provide a historical view of curb usage, impacts, and efficiencies.

Missouri

Recipient	Project Name	Funding	Project Type	Project Summary
Mid-America Regional Council	Operation Green Light: Regional Traffic Signal Performance Measures	$734,653	Smart Traffic Signals	Use data for traffic signal retiming to improve the flow of traffic in Kansas City.

North Carolina

Recipient	Project Name	Funding	Project Type	Project Summary
North Carolina Department of Transportation	Automating Actionable Road Anomalies (AARA) for Traveler Information	$1,534,500	Connected Vehicles	Provide hands free, eyes free alerts to motorists through existing smartphone applications and navigation systems in North Carolina.

North Dakota

Recipient	Project Name	Funding	Project Type	Project Summary
Three Affiliated Tribes	MHA Nation Drone Project: Planning and Protocol Development	$1,966,345	UAS	Use drone technology for medical care and equipment delivery for the Mandan, Hidatsa and Arikara Nation.

New Jersey

Recipient	Project Name	Funding	Project Type	Project Summary
New Jersey Department of Transportation	NJDOT SMART RIGHT NOW	$2,000,000	Sensors	Mitigate wrong-way driving events using sensors in New Jersey.

Nevada

Recipient	Project Name	Funding	Project Type	Project Summary
Regional Transportation Commission of Southern Nevada	Safer, Faster, Smarter: Pairing Cloud-Based Vehicle Preemption and AI Intersection Video Analytics	$2,000,000	Smart Traffic Signals	Prototype a cloud-based signal timing optimization system that supports Emergency Vehicle Preemption, Transit Signal Priority, and AI analytics in the Las Vegas region.
Tahoe Transportation District	Intelligent Sensor Integration on Rural Multi-Modal System with an Urban Recreation Travel Demand, Lake Tahoe Basin, NV and CA	$1,489,000	Sensors	Optimize Lake Tahoe region travel using sensors at each of the Basin's seven entry points.

New York

Recipient	Project Name	Funding	Project Type	Project Summary
City of Buffalo	Buffalo SMART Grant project	$1,919,343	Curb Management	Capture real-time usage data and facilitate comprehensive curb management strategies in Downtown Buffalo.
City of Ithaca	Dynamic Signal Priority for School Buses, Transit and Fire Operations	$1,782,310	Smart Traffic Signals	Deploy Traffic Signal Prioritization to improve the efficiency of school buses, transit, and fire operations in Ithaca.
New York State Metropolitan Transportation Authority	NY MTA - Inclusive Wayfinding through NaviLens	$2,000,000	Transit Innovation	Implement a wayfinding application to allow visually impaired New York subway and bus customers to safely navigate their entire public transit trip.
New York State Thruway Authority	Smart Data Collection: Using Automation and Data Integration to Optimize Infrastructure Inspection	$1,500,000	UAS	Use drone technology to inspect infrastructure along the New York State Thruway.

Ohio

Recipient	Project Name	Funding	Project Type	Project Summary
City of Cleveland	Cleveland Complete Corridor Project	$1,820,500	Smart Traffic Signals	Provide the right of way to emergency vehicles using smart traffic signals in Cleveland.
Ohio Department of Transportation	CV Safety Alert & Predictive Crash Location Integration	$1,998,000	Sensors	Build two proofs of concept to mitigate, address, and report accidents in Ohio.

Oregon

Recipient	Project Name	Funding	Project Type	Project Summary
City of Portland	Portland, leading by example: A Technology-enabled Zero Emission Zone	$1,999,384	Curb Management	Use data and sensors to establish a zero emissions delivery zone in Portland.

Pennsylvania

Recipient	Project Name	Funding	Project Type	Project Summary
City of Philadelphia	Philadelphia Digital ROW and Mobility Improvement Project	$2,000,000	Curb Management	Digitize street, sidewalk, and curbside space and develop an online application to communicate Right-of-Way information to users.

Tennessee

Recipient	Project Name	Funding	Project Type	Project Summary
Metropolitan Government of Nashville-Davidson County	Leveraging Advanced Data to Deliver Multimodal Safety (LADDMS)	$2,000,000	Sensors	Use LiDAR and camera technologies at key intersections to understand near misses in Nashville.

Texas

Recipient	Project Name	Funding	Project Type	Project Summary

| Harris County | Harris County Flood Warning System | $2,000,000 | Sensors | Study and implement a user dashboard to alert residents in flood prone areas of Harris County. |
| Texas Department of Transportation | Smarter Intersections Pilot Project | $1,900,000 | Connected Vehicles | Install smart intersection technology featuring visual and auditory devices in College Station. |

Utah

Recipient	Project Name	Funding	Project Type	Project Summary
Utah Department of Transportation	Enabling Trust and Deployment Through Verified Connected Intersections	$1,855,000	Connected Vehicles	Prototype a Connected Intersection Corridor and develop a plan for nationwide V2X systems deployment.

Virginia

Recipient	Project Name	Funding	Project Type	Project Summary
Accomack-Northampton Planning District Commission	Drone Medical Package Delivery for Improved Transportation and Better Patient Outcomes	$1,877,000	UAS	Use drone technology to deliver and transport medical supplies on the Eastern Shore of Virginia.

Washington

Recipient	Project Name	Funding	Project Type	Project Summary
Central Puget Sound Regional Transit Authority	Rainier Valley Safe: Technology Investments to Improve Community Safety	$2,000,000	Sensors	Leverage smart sensing infrastructure and upgraded traffic signals to address safety at at-grade crossings and multimodal efficiency at signalized intersections in the Ranier Valley.
City of Seattle	Last Mile Freight Curb Access: Digitizing the Last-Mile of Urban Goods to Improve Curb Access and Utilization	$1,996,000	Curb Management	Establish new Commercial Vehicle Permit (CVP) policies and implement a digital CVP built on the Curb Data Specification (CDS) in Seattle.

Whatcom Council of Governments	Cascade Gateway Advanced Border Information System (ABIS) Design Project	$458,000	International Commerce	Develop a binational public wait time system at the U.S.-Canadian border in Northern Washington.

Wisconsin

Recipient	Project Name	Funding	Project Type	Project Summary
Wisconsin Department of Transportation	Extending the Wisconsin Work Zone Data Exchange (WZDx) to Local Roads Using Smart Work Zone ITS	$250,000	Work Zone Safety	Expand Work Zone Data Exchange to local roads in Madison.

West Virginia

Recipient	Project Name	Funding	Project Type	Project Summary
West Virginia Department of Transportation	West Virginia Structural Health Monitoring Project	$812,000	Sensors	Deploy a structural health monitoring tool for aging infrastructure in Charleston.