

# Advanced Transportation & Congestion Management Technologies Deployment (ATCMTD) Program

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Southwest Pennsylvania Commission

Operations/Safety Meeting

October 27, 2016



U.S. Department  
of Transportation

**Federal Highway  
Administration**

# ATCMTD Program

- FAST Act Section 6004 created new Section 503(c)(4) of the United States Code
  - 23 U.S.C. 503(c)(4): Advanced transportation technologies deployment
  - Establishes an Advanced Transportation and Congestion Management Technologies Deployment initiative to provide grants to eligible entities to develop model deployment sites for large scale installation and operation of advanced transportation technologies to improve safety, efficiency, system performance, and infrastructure return on investment. [23 USC 503(c)(4)(A)]
- Every fiscal year awards to not less than 5 and not more than 10 eligible entities. [23 USC 503(c)(4)(D)(i)]



# ATCMTD Program Funding

- Funding: \$60,000,000 for each of fiscal years 2016-2020 [23 USC 503(c)(4)(I)(i)]
- Federal share not to exceed 50% of project cost [23 USC 503(c)(4)(J)]
- No more than 20% of the total amount (i.e. \$12M) in a fiscal year to a single recipient [23 USC 503(c)(4)(K)]
  - Recipient may use not more than 5% of the funds awarded each fiscal year to carry out planning & reporting requirements [23 USC 503(c)(4)(L)]



# ATCMTD Use of Funds [23 USC 503(c)(4)(E)]

- Advanced traveler information systems;
- Advanced transportation management technologies;
- Infrastructure maintenance, monitoring, and condition assessment;
- Advanced public transportation systems;
- Transportation system performance data collection, analysis, and dissemination systems;
- Advanced safety systems, including V2V and V2I communications, technologies associated with autonomous vehicles, and other collision avoidance technologies;
- Integration of ITS with the Smart Grid and other energy distribution and charging systems;
- Electronic pricing and payment systems; or
- Advanced mobility and access technologies, such as dynamic ridesharing and information systems to support human services for elderly and disabled individuals.



# ATCMTD Eligible Entities [23 USC 503(c)(4)(N)(i)]

Eligible applicants include:

- State or local governments;
- Transit agencies;
- Metropolitan planning organizations representing a population of over 200,000;
- Other political subdivisions of a State or local government (such as publicly owned toll or port authorities); or
- A multijurisdictional group or consortia of research institutions or academic institutions.

FHWA encourages partnerships with the private sector or public agencies, including multimodal and multijurisdictional entities, research institutions, organizations representing transportation and technology leaders, or other transportation stakeholders.



# ATCMTD Program Vision

- The deployment of advanced technologies and related strategies to address issues & challenges in safety, mobility, sustainability, economic vitality, and air quality that are confronted by transportation systems owners and operators.
- The advanced technologies are integrated into the routine functions of the location or jurisdiction, and play a critical role in helping agencies and the public address their challenges.
- Management systems within transportation and across other sectors (e.g., human services, energy, and logistics) share information and data to communicate among agencies and with the public.
- These management systems provide benefits by maximizing efficiencies based on the intelligent management of assets and the sharing of information using integrated technology solutions.
- The advanced technology solutions and the lessons learned from their deployment are used in other locations, scaled in scope and size, to increase successful deployments and provide widespread benefits to the public and agencies.



# FY 2016 Project Awards Summary

- SmartPGH
- Freight Advanced Traveler Information System (FRATIS)
- Los Angeles DOT Implementation of Advanced Technologies to Improve Safety & Mobility within the Promise Zone
- City of San Francisco Advanced Transportation and Congestion Management Technologies Deployment Initiative (ATCMTD)
- Denver Smart City Program
- A Connected Region: Moving Technological Innovations Forward in the NITTEC Region
- NW 33 Smart Mobility Corridor
- ConnectSmart: Connecting TSMO and Active Demand Management



## SmartPGH

- *Pittsburgh, Pennsylvania*
- Award: \$10,899,318
- The project will deploy “Smart Spine” corridors in Pittsburgh that layer environmental, communications, energy, and transportation infrastructure technologies to improve connections between isolated neighborhoods and major centers of employment, education and healthcare. In addition to expanding the network of connected, real-time adaptive signal controllers that will provide optimized transit operations, the City of Pittsburgh will complete an LED smart streetlight conversion of nearly 40,000 street lights.



## **Freight Advanced Traveler Information System (FRATIS)**

- *Los Angeles, California*
- Award: \$3,000,000
- The Los Angeles County Metropolitan Transportation Authority, supported by the Gateway Cities Council of Governments, the Port of Los Angeles, the Port of Long Beach, and the Harbor Trucking Association, will implement a large-scale deployment of the Freight Advanced Traveler Information System (FRATIS) Project to help reduce truck congestion.



## Los Angeles DOT Implementation of Advanced Technologies to Improve Safety & Mobility within the Promise Zone

- *Los Angeles, California*
- Award: \$3,000,000
- Large-scale deployment of technology to allow the traffic signal system to detect red light-violating vehicles, allow personal wireless devices to prioritize pedestrian travel and safety at intersections, and assist transit bus drivers to operate safely and efficiently.



## **City of San Francisco Advanced Transportation and Congestion Management Technologies Deployment Initiative (ATCMTD)**

- *San Francisco, California*
- Award: \$10,990,760
- The project makes intersections safer and more accessible for pedestrians and cyclists by deploying smart connected traffic signals and encourages ridesharing and carpooling through the creation of dynamic pickup curbs and a regional carpool lane system.



## Denver Smart City Program

- *Denver, Colorado*
- Award: \$6,000,007
- The project will implement three intelligent vehicle projects: a Connected Traffic Management Center (TMC) and Connected Fleets; Travel Time Reliability as a City Service for Connected Freight; and Safer Pedestrian Crossings for Connected Citizens. The technologies include dedicated short-range communications (DSRC) in 1,500 city fleet vehicles.



## **A Connected Region: Moving Technological Innovations Forward in the NITTEC Region**

- *Niagara / Buffalo, New York*
- Award: \$7,813,256
- The project will deploy technologies and strategies to improve border crossing performance and travel time and commercial vehicle operations and safety. It will enhance real-time information provided to travelers. It will expand Smart Mobility to major highways in the region to improve incident management and promote operational integration within Niagara Frontier Transportation Authority.



## **NW 33 Smart Mobility Corridor**

- *Cities of Marysville and Dublin and Union County, Ohio*
- Award \$5,997,500
- The project will deploy corridor-focused connected vehicle applications across a wide range of connected fleets – city, county, transit, private fleets – in a mix of rural and suburban areas serving multiple communities to improve access to large employment sites and enhance economic development.



## **ConnectSmart: Connecting TSMO and Active Demand Management**

- *Houston, Texas*
- Award: \$8,939,062
- The project will deploy an advanced technology platform that integrates transportation operations and active demand management with a multi-modal approach. The ConnectSmart model platform will integrate various mobility technologies for carpooling, ridesharing and shared electric bicycles to provide reliable multi-modal travel time information.



# FY 2017 Tentative Timeline

- Publish NOFO – January
- Proposals due – April
- Awards – July

**STAY  
TUNED**



# Information

ATCMTD Website under construction



- Awards Fact Sheet:

- [www.transportation.gov/Briefing-Room/ATCMTD-Fact-Sheet-2016](http://www.transportation.gov/Briefing-Room/ATCMTD-Fact-Sheet-2016)

Questions may be sent to:

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