



**Welcome to Today's Webinar**

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

**Date: Tuesday, March 29, 2016**

**Time: 1:00 PM– 2:30 PM ET**

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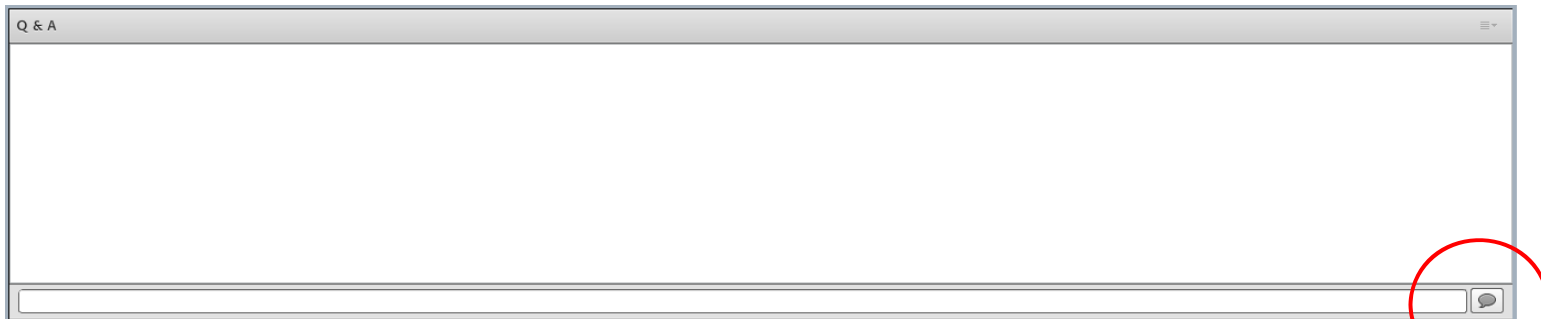
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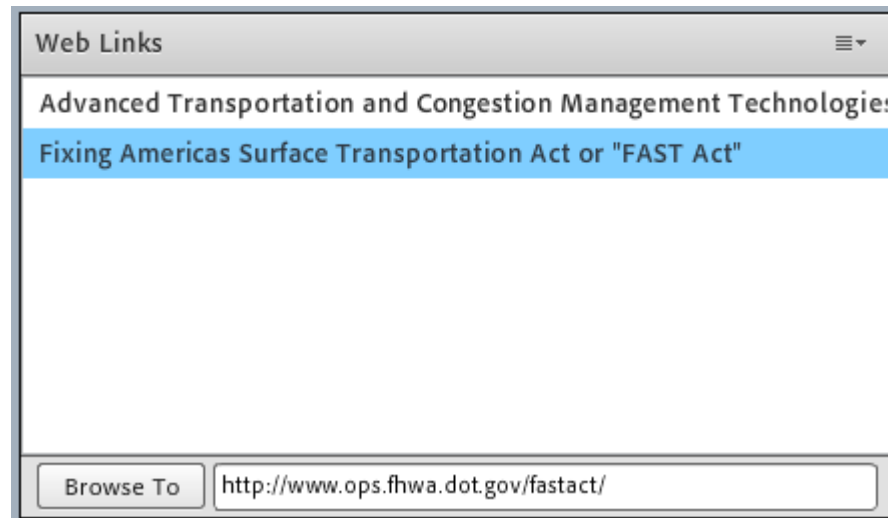
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# **Poll Question #1**



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

## ***Presenters***

**Jeff Lindley, Associate Administrator, Office of Operations, FHWA**

**Ken Leonard, Director, ITS Joint Program Office, FHWA (*Invited*)**

**Robert Arnold, Director, Office of Transportation Management, FHWA**

**Bob Rupert, Team Leader, Automated/Connected Vehicles &  
Emerging Technologies, FHWA**

**Sarah Berman, Team Leader, Grants & Cooperative  
Agreements, FHWA**

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

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Notice of Funding Opportunity



U.S. Department  
of Transportation

**Federal Highway  
Administration**

# Agenda

- Executive Introduction
- ATCMTD Program
- Application
- Questions

# ADVANCED TRANSPORTATION AND CONGESTION MANAGEMENT TECHNOLOGIES DEPLOYMENT (ATCMTD) PROGRAM

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Bob Arnold, Director  
Office of Transportation Management, FHWA



# 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 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.

Partnership with the private sector or public agencies, including multimodal and multijurisdictional entities, research institutions, organizations representing transportation and technology leaders, or other transportation stakeholders is encouraged.

# 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.

# ATCMTD Program Vision

- Advanced technologies can also help to revitalize neighborhoods and regions by attracting more business or residential developments to bring opportunities closer to where people live.
- Technologies also help provide transportation options and improved multimodal transportation systems, allowing users to have access to safe, reliable, and affordable connections to employment, education, healthcare, goods delivery, and other services.
- As such, technology helps create pathways to jobs and economic opportunity for traditionally disadvantaged populations.

# ATCMTD Program Goals (1 of 2)

- Reduced costs and improved return on investments;
- Environmental benefits from congestion management and streamlined traffic flow;
- Measurement and improvement of transportation networks operations;
- Reduction of traffic crashes and increase in personal safety;
- Real time information to improve mobility, reduce congestion and provide for more efficient and accessible transportation
  - access to safe, reliable, and affordable connections to employment, education, healthcare, freight facilities, and other services;
- Monitoring transportation assets to improve infrastructure management, reduce maintenance costs, prioritize investment decisions, and ensure a state of good repair;

## ATCMTD Program Goals (2 of 2)

- Economic benefits from reduced delays, improved system performance, and throughput, and the efficient and reliable movement of people, goods, and services;
- Accelerated deployment of V2V, V2I, and automated vehicle applications, and autonomous vehicles;
- Advanced technologies integrated into transportation system management and operations;
- Demonstration, quantification, and evaluation of the impact of advanced technologies, strategies, and applications towards improved safety, efficiency, and sustainable movement of people and goods; and
- Reproducibility of successful systems and services for technology and knowledge transfer to other locations facing similar challenges.



# ATCMTD Program Focus Areas

Proposals are not limited to these priorities but U.S. DOT is particularly interested in deployment programs and projects in the following areas:

- Transportation elements associated with Smart Cities;
- Systemic applied pedestrian crossing technology;
- Multimodal Integrated Corridor Management (ICM);
- Traffic signal data acquisition, analysis, and management;
- Unified fare collection and payment system across transportation modes and jurisdictions;
- Incorporation of connected vehicle (CV) technology in public sector and first responder fleets;
- Weigh-in-Motion (WIM) facilities for advanced data collection; and
- Dynamic ridesharing.

# APPLICATION PROCESS

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Bob Rupert, Team Leader, Emerging Technologies Team  
Sarah Berman, Team Leader, Grants & Cooperative  
Agreements

# ATCMTD Application Process

- Applications must be submitted through Grants.gov at [www.grants.gov](http://www.grants.gov). To submit, applicants must:
  - a) Obtain a Data Universal Numbering System (DUNS) number;
  - b) Register with the System for Award (SAM) at [www.sam.gov](http://www.sam.gov);
  - c) Create a Grants.gov username and password; and
  - d) E-business POC at the applicant's organization must respond to the registration email from Grants.gov and login to authorize the POC as an Authorized Organization Representative.
- Applications due **June 3, 2016**
- Note: The Grants.gov registration process usually takes 2-4 weeks to complete; late applications that are the result of failure to register or comply with Grants.gov applicant requirements will not be considered.

# ATCMTD Application Process

- Applicants may obtain application forms at Grants.gov under the Notice of Funding Opportunity (NOFO) number.
  - Applicant must complete and submit all forms included in the application package for this NOFO as contained at [www.grants.gov](http://www.grants.gov).
- Application must include the Standard Form (SF) 424 (Application for Federal Assistance), SF 424A (Budget Information for Non-Construction Programs), SF 424B (Assurances for Non-Construction Programs), Grants.gov Lobbying Form, cover page, and the project narrative.
  - SFs are available online at <http://www.grants.gov/web/grants/forms/sf-424-family.html>.

# ATCMTD Application: Cover Page

## **Cover Page should including the following information:**

- Project Name
- Previously Incurred Project Cost
- Future Eligible Project Cost
- Total Project Cost
- ATCMTD Request
- Total Federal Funding (including ATCMTD)
- Are matching funds restricted to a specific project component? If so, which one?
- State(s) in which the project is located
- Is the project currently programmed in the: TIP, STIP, MPO Long Range Transportation Plan, and/or State Long Range Transportation Plan?

# ATCMTD Application: Narrative

Recommended that the Project Narrative use the following basic outline to clearly address the program requirements and make critical information readily apparent:

- Project description;
- Staffing description; and
- Funding description.

Besides a detailed statement of work, detailed project schedule, and detailed project budget, the Project Narrative should include a table of contents, maps, and graphics as appropriate to make the information easier to review.

# ATCMTD Project Description (1 of 3)

- 1 to 2-page summary of the proposed technology deployment(s).
- Description of the entity that will be entering into the agreement with FHWA.
- Description of the geographic area or jurisdiction the deployment will service.
- Description of the real world issues and challenges to be addressed by the proposed technology deployments.
  - Discuss how the proposed deployments address the ATCMTD goals and any applicable focus area.
  - Applicants should highlight any proposed linkages to Ladders of Opportunity pathways to jobs and economic opportunities.

## ATCMTD Project Description (2 of 3)

- Description of the transportation systems and services in the project.
- Plan to deploy and provide long-term operation and maintenance of the proposed technologies to improve safety, efficiency, system performance, and return on investment.
- Description of any challenges in the regulatory, legislative, or institutional environments or other obstacles to deployment.
- Quantifiable system performance improvements.
- Quantifiable safety, mobility, and environmental benefit projections.



## ATCMTD Project Description (3 of 3)

- Vision, goals, and objectives of the applicant for the technology deployment.
- Plan for partnering with the private sector or public agencies.
- Plan to leverage and optimize existing local and regional advanced transportation technology investments.
- Schedule for conducting the technology deployment and for completion of all proposed activities.
- Any support or leveraging of the ITS program or innovative technology initiatives.

# ATCMTD Staffing Description

- Description of the organization of staffing to manage and conduct the project, including identification of key personnel, organization, role, and responsibility.
- Primary point of contact and complete contact information.

# ATCMTD Funding Description

- Applications must include a breakdown of estimated costs across project work areas or tasks, including an identification of funding sources and amounts.

## Notes:

- The maximum amount of funding requested from the ATCMTD program cannot exceed \$12 million per year nor exceed 50% of the total cost of the activities proposed to be funded.
- Selection of an application to receive grant funding in one fiscal year is not a commitment of any future funding.
- Applications will be solicited annually for competitively selecting grant recipients for that funding year.

# APPLICATION REVIEW PROCESS

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# ATCMTD Application Review: Technical Merit

- Degree that the proposed technology deployment aligns with program requirements and U.S. DOT goals.
- Readiness of the proposed technology(ies) to be deployed, and the likelihood of success of the applicant to deploy and sustain the technology(ies).
  - Including proposed approaches to addressing any regulatory environment and other obstacles to deployment.
- Scalability or portability of the proposed technology deployment to other jurisdictions.
- Commitment to evaluate the effectiveness (i.e. cost-benefit) of activities proposed.
- Clarity, quality, and completeness of the proposal.

# ATCMTD Application Review: Staffing

- Degree that the Application includes a program or project management structure or organization that will successfully oversee the proposed technology deployment.
- Expertise and qualifications of key personnel for managing or conducting appropriate aspects of the proposed technology deployment through the period of performance.

# ATCMTD Application Review: Other Information

- DOT will prioritize projects that also enhance personal mobility and accessibility. Such projects include, but are not limited to:
  - Investments that better connect people to essential services such as employment centers, health care, schools and education facilities, healthy food, and recreation;
  - Remove physical barriers to access; strengthen communities through neighborhood redevelopment;
  - Mitigate the negative impacts of freight movement on communities; and
  - Support workforce development, particularly for disadvantaged groups, which include low-income groups, persons with visible and hidden disabilities, elderly individuals, and minority persons and populations.

# ATCMTD Application Review: Other Information

- DOT will review all eligible applications received before the application deadline.
  - Technical Evaluation Teams will determine whether each project satisfies statutory requirements and rate how well it addresses selection criteria.
  - Senior Review Team will consider the applications and the technical evaluations to determine which projects to advance to the Secretary for consideration.
  - Evaluations in the technical evaluation and senior review phases will place projects into rating categories, not numerical scores.
- The Secretary will select the projects for award.
- A panel of Agency experts will conduct a risk assessment of the applicant prior to award.



# AWARDS AND REPORTING

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# ATCMTD Awards / Reporting

- DOT anticipates making ATCMTD project awards by September 2016
- Each recipient must submit the Federal Financial Report (SF-425) on the financial condition of the project, its progress, and an Annual Budget Review and Program Plan.

# ATCMTD Reporting [23 USC 503(c)(4)(F)]

- Recipient shall submit annual reports describing:
  - Deployment and operational costs of the project compared to the benefits and savings the project provides; and
  - How the project has met the original expectations in the deployment plan submitted with the application, such as:
    - Data on how the project has helped reduce traffic crashes, congestion, costs, and other benefits of the deployed systems;
    - Data on the effect of measuring and improving transportation system performance through the deployment of advanced technologies;
    - Effectiveness of providing real time integrated traffic, transit, and multimodal transportation information to the public to make informed travel decisions; and
    - Lessons learned and recommendations for future deployment strategies to optimize transportation efficiency and multimodal system performance.

# QUESTIONS

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# Questions

Questions may be sent to:

- [ATCMTD@dot.gov](mailto:ATCMTD@dot.gov)

Questions & Answers will be posted to:

- [www.Grants.gov](http://www.Grants.gov)
  - ATCMTD information also available at:
  - [www.ops.fhwa.dot.gov/fastact/](http://www.ops.fhwa.dot.gov/fastact/)



**Thank you for joining today's webinar!**