U.S. Department of Transportation

Notice of Funding Opportunity Number DTFH6116RA00012

“Advanced Transportation and Congestion Management Technologies Deployment Initiative”

Issue Date: 03/22/2016

Application Due Date: 06/03/2016
TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>SECTION</th>
<th>TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>SUMMARY INFORMATION AND WEBINAR DETAILS</td>
<td>3</td>
</tr>
<tr>
<td>A</td>
<td>PROGRAM DESCRIPTION</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>FEDERAL AWARD INFORMATION</td>
<td>14</td>
</tr>
<tr>
<td>C</td>
<td>ELIGIBILITY INFORMATION</td>
<td>15</td>
</tr>
<tr>
<td>D</td>
<td>APPLICATION AND SUBMISSION INFORMATION</td>
<td>17</td>
</tr>
<tr>
<td>E</td>
<td>APPLICATION REVIEW INFORMATION</td>
<td>25</td>
</tr>
<tr>
<td>F</td>
<td>FEDERAL AWARD ADMINISTRATION INFORMATION</td>
<td>29</td>
</tr>
<tr>
<td>G</td>
<td>FEDERAL AWARDING AGENCY CONTACTS</td>
<td>30</td>
</tr>
</tbody>
</table>

The FHWA is using [www.grants.gov](http://www.grants.gov) for issuance of this Notice of Funding Opportunity (NOFO). Applicants must register at grants.gov under NOFO Number DTFH6116RA00012 to receive notifications of updates/amendments to this NOFO. It is the Applicant’s responsibility to monitor the grants.gov site for any updates/amendments to this NOFO.
### Summary Information

| Funding Opportunity Summary: | $60 Million in Federal Funding 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. |
| Funding Opportunity Title: | Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD) Initiative |
| Announcement Type: | This is the initial announcement of this funding opportunity. This is not a follow-on notice. |
| Funding Opportunity Number: | DTFH6116RA00012 |
| Type of Award: | Cooperative Agreements or Allocations to State Departments of Transportations |
| Catalog of Federal Domestic Assistance (CFDA) Number: | 20.200 Highway Research & Development |
| Application Due Date: | **Applications Due by 06/03/2016 at 3:00 pm Eastern Time** through [www.Grants.gov](http://www.Grants.gov) |
| Questions: | Submit Questions to: [ATCMTD@dot.gov](mailto:ATCMTD@dot.gov) |
Funding Opportunity Informational Webinar

The United States Department of Transportation (DOT) will host an Informational Session regarding this Funding Opportunity focused on the Advanced Transportation and Congestion Management Technologies Deployment Initiative. This session will be conducted as a virtual forum and will focus on specific topics to help potential applicants gather additional information and ask specific questions.

Participation in this session is not mandatory in order to submit an application under this solicitation. However, we encourage potential applicants to take advantage of this opportunity to gather information regarding this specific funding opportunity.

INFORMATIONAL SESSION: ADVANCED TRANSPORTATION AND CONGESTION MANAGEMENT TECHNOLOGIES DEPLOYMENT INITIATIVE

SESSION: Virtual Webcast: Background and Application Information for the Advanced Transportation and Congestion Management Technologies Deployment Initiative
DATE: 3/29/2016
TIME: 1:00 pm Eastern Time
INFORMATION AND REGISTRATION: https://connectdot.connectsolutions.com/e4x9x0mcr0a/event/registration.html

Note: The DOT will also consider conducting additional virtual and/or in person workshops regarding the Advanced Transportation and Congestion Management Technologies Deployment Initiative Funding Opportunity.
SECTION A – PROGRAM DESCRIPTION

Section 503(c)(4) of Title 23 of the United States Code (23 USC 503(c)(4)) directs the DOT to establish an advanced transportation and congestion management technologies deployment (ATCMTD) 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. This solicitation seeking applications from eligible entities will establish the initial set of model technology deployment sites. The deployment of technologies will:

- reduce costs and improve return on investments, including through the enhancement use of existing transportation capacity;
- deliver environmental benefits that alleviate congestion and streamline traffic flow;
- measure and improve the operational performance of the applicable transportation network;
- reduce the number and severity of traffic crashes and increase driver, passenger, and pedestrian safety;
- collect, disseminate, and use real time transportation-related information to improve mobility, reduce congestion, and provide for more efficient and accessible transportation;
- monitor transportation assets to improve infrastructure management, reduce maintenance costs, prioritize investment decisions, and ensure a state of good repair;
- deliver economic benefits by reducing delays, improving system performance, reconnecting communities through advanced technology, and providing for the efficient and reliable movement of goods and services; or
- accelerate the deployment of vehicle-to-vehicle, vehicle-to-infrastructure, autonomous vehicles, and other technologies.

The DOT intends for these model technology deployments to help demonstrate how emerging transportation technologies, data, and their applications, that also link to Beyond Traffic – 2045, can be effectively deployed and integrated with existing systems to provide access to essential services and other destinations. This also includes efforts to increase connectivity to employment, education, services and other opportunities; support workforce development; or contribute to community revitalization, particularly for disadvantaged groups: low-income residents, persons with visible and hidden disabilities, elderly individuals, and minority person and populations.
The DOT will make no fewer than 5 and no more than 10 awards of up to $12 million individually.

1. **STATEMENT OF PURPOSE**

The DOT hereby requests applications to result in awards 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. These model deployments are expected to provide benefits in the form of:

- reduced traffic-related fatalities and injuries;
- reduced traffic congestion and improved travel time reliability;
- reduced transportation-related emissions;
- optimized multimodal system performance;
- improved access to transportation alternatives, including for underserved populations;
- public access to real time integrated traffic, transit, and multimodal transportation information to make informed travel decisions;
- cost savings to transportation agencies, businesses, and the traveling public; or
- other benefits to transportation users and the general public.

This competitive advanced transportation and congestion management technologies deployment grant program will promote the use of innovative transportation solutions. The deployment of these technologies will provide Congress and DOT with valuable real life data and feedback to inform future decision making.

2. **LEGISLATIVE AUTHORITY**

Specific statutory authority for conducting this effort is found in 23 U.S.C. §503(c)(4), which authorizes the Secretary of Transportation to “…establish 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.”

Per 23 U.S.C. §503(c)(4)(I)(i), funding for this effort is available from amounts authorized under §6002(a)(1), §6002(a)(2), and §6002(a)(4) of Public Law 114-94, the Fixing America’s Surface Transportation Act (FAST).
The authority to enter into a cooperative agreement for this effort is found under 23 U.S.C. §502 - Surface Transportation Research, Development, and Technology, paragraph (b)(3) which states:

“(3) **cooperation, grants, and contracts.** — The Secretary may carry out research, development, and technology transfer activities related to transportation—

(A) independently;
(B) in cooperation with other Federal departments, agencies, and instrumentalities and Federal laboratories; or
(C) by making grants to, or entering into contracts and cooperative agreements with one or more of the following: the National Academy of Sciences, the American Association of State Highway and Transportation Officials, any Federal laboratory, Federal agency, State agency, authority, association, institution, for-profit or nonprofit corporation, organization, foreign country, or any other person.”

3. **BACKGROUND**

States and jurisdictions across the country are tackling transportation challenges that often result in congestion and unreliable travel for people and goods, negative impacts on the environment, and reduced safety for users and vehicles. According to the Texas A&M University Transportation Institute, Americans spend on average over 40 hours per person stuck in traffic each year for an annual financial cost of $121 billion. Research indicates that cities account for 67% of all greenhouse gases (GHGs) released into the atmosphere, and the transportation sector is the second-biggest source of GHG emissions, responsible for emitting 28% of GHGs into the atmosphere. There were 32,675 deaths and more than 2.3 million injuries from vehicle crashes in 2014, and there were more than 6.1 million reported motor vehicle crashes. Recognizing that implementing technology solutions can help address transportation safety, mobility, and air quality challenges, section 6004 of the FAST Act establishes the advanced transportation and congestion management technologies deployment initiative.

Projects funded under this initiative will deploy advanced transportation and congestion management technologies, including:

i. **Advanced traveler information systems** – Systems that provide real time, predicted, and individualized information about travel choices, based on data from sensors (traffic, weather), mobile sources (personal portable devices,
connected vehicles), and other information systems (public transportation, shared-use mobility, traffic incident management, construction, parking, congestion pricing/tolls or other costs) to allow travelers and shippers to make informed decisions regarding destinations, when to travel, routes, or modes. This information should be publically accessible and not limited to users with smart phones.

ii. **Advanced transportation management technologies** – Technologies that assist transportation system operators in managing and controlling the performance of their systems to provide optimal services or respond to dynamic conditions, including interjurisdictional and intermodal coordination; technologies may include traffic signal equipment, advanced data collection and processing (from sensors, connected vehicles and other mobile sources, other information systems), dynamic lane controls/configurations, and cooperative transportation management algorithms including pricing strategies across jurisdictions/agencies/facilities/modes.

iii. **Infrastructure maintenance, monitoring, and condition assessment** – Technologies and systems that monitor the behavior or assess the condition of transportation infrastructure to allow agencies to better manage their transportation assets through optimizing resource allocation, preventative maintenance processes, and responses to critical conditions.

iv. **Advanced public transportation systems** – Technologies that assist public transportation system operators or other shared mobility entities in managing and optimizing the provision of public transportation and mobility services; technologies may include remote fleet monitoring systems, coordinated communication systems, algorithms, and applications to enable better transit connections for users, advanced data collection and processing (from sensors, mobile/connected sources, other information systems) to provide dynamic responsive transit services, and communication and data systems that enable shared mobility services.

v. **Transportation system performance data collection, analysis, and dissemination systems** – Technologies and systems that actively monitor the performance of and interactions between transportation systems and permit agencies and other interested entities to conduct analyses and research, and explore innovative, value-added products and services.

vi. **Advanced safety systems, including vehicle-to-vehicle and vehicle-to-infrastructure communications, technologies associated with autonomous vehicles, and other collision avoidance technologies, including systems using cellular technology** – Deployment of technology-based safety systems such as described at Safer Car (http://www.safercar.gov/) or at the Intelligent Transportation Systems (ITS)
Program (http://www.its.dot.gov/landing/safety.htm), or other applicable safety technologies.

vii. **Integration of intelligent transportation systems with the Smart Grid and other energy distribution and charging systems** – Technologies that link information from ITS and other transportation systems with information from Smart Grid and other energy distribution and charging systems to provide users with better information related to opportunities for recharging electric vehicles, and to provide energy distribution agencies with better information related to potential transportation-user demand.

viii. **Electronic pricing and payment systems** – Technologies that permit users to electronically conduct financial transactions for mobility services across jurisdictions and agencies, such as unified fare collection, payment, and tolling systems across transportation modes; or

ix. **Advanced mobility and access technologies, such as dynamic ridesharing and information systems to support human services for elderly and disabled individuals** – Technologies and systems that leverage data and communications systems to allow public agencies and human service organizations to provide improved mobility services to at-risk users such as elderly, disabled, or other individuals that require transportation assistance.

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.

Intelligent Transportation Systems (ITS) are laying the groundwork for innovative transportation solutions, with many locations currently serving as laboratories for new types of transportation services. Integrating ITS, connected vehicle technologies, automated vehicles, and other advanced technologies within the context of a jurisdiction or region provides enhanced travel experiences and makes moving people and goods safer, more efficient, and more secure. By enhancing the effective management and operation of the transportation system, these solutions can leverage existing infrastructure investments, enhance mobility, sustainability, and livability for citizens and businesses, and greatly increase the attractiveness and competitiveness of jurisdictions and regions.
4. VISION, GOALS, AND FOCUS AREAS

The DOT recognizes that each location has unique attributes, and each location’s proposed deployment will be tailored to their vision and goals. Applications may be submitted for deploying any eligible technology. However, this section provides a framework for applicants to consider in the development of a proposed deployment by presenting the DOT’s vision, goals, and focus areas.

The DOT’s vision for the ATCMTD initiative is the deployment of advanced technologies and related strategies to address issues and 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 between 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.

Goals for the advanced transportation and congestion management technologies deployment initiative include:

- Reduced costs and improved return on investments, including through the enhanced use of existing transportation capacity;
- Delivery of environmental benefits that alleviate congestion and streamline traffic flow;
- Measurement and improvement of the operational performance of the applicable transportation networks;
- Reduction in the number and severity of traffic crashes and an increase in driver, passenger, and pedestrian safety;
- Collection, dissemination, and use of real time transportation related information to improve mobility, reduce congestion, and provide for more efficient and accessible transportation, including 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;
• Delivery of economic benefits by reducing delays, improving system performance and throughput, and providing for the efficient and reliable movement of people, goods, and services;
• Accelerated deployment of vehicle-to-vehicle, vehicle-to-infrastructure, and automated vehicle applications, and autonomous vehicles and other advanced technologies;
• Integration of advanced technologies into transportation system management and operations;
• Demonstration, quantification, and evaluation of the impact of these 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.

Although proposals are not limited to DOT priorities, the Department is particularly interested in deployment programs and projects in the following areas:

• **Transportation elements associated with Smart Cities**: A Smart City uses technology to connect transportation assets into an interactive network that allows communities to reduce congestion, support efficient goods movements, provide multimodal choices, keep travelers and freight logistics safe, reduce fuel consumption, protect the environment, respond to climate change, connect underserved communities, and support economic vitality. This focus area is for transportation technology deployments that would lead to a wider Smart City environment.

• **Systemic applied pedestrian crossing technology**: Pedestrian Crossing Technology encompasses crossing treatments with advanced equipment such as automated detectors that can sense pedestrians and provide them with safer crossing opportunities (e.g., extending crossing times or activating infrastructure or in-vehicle based displays and warnings). Such technologies offer significant benefits at midblock locations, which are particularly risky for pedestrians. Because pedestrian fatalities do not necessarily cluster in particular locations, it will likely be more effective to use a systemic application of pedestrian crossing improvements to improve safety. DOT is interested in these technologies because pedestrians account for over 14% of annual roadway fatalities and over 70 percent of these fatalities occur in urban environments.

• **Multimodal Integrated Corridor Management (ICM)**: ICM is the coordination of individual network operations of adjacent facilities across all government or other
operations agencies that creates a unified, interconnected, and multimodal system capable of sharing cross-network travel management. All corridor transportation assets and information services (i.e., local, county, regional, State) are brought to bear when congestion events beyond nominal threshold conditions trigger alerts. Through an ICM approach, transportation professionals manage the corridor as a multimodal system and make operational decisions for the benefit of the corridor as a whole. DOT is interested in increasing deployment of ICM.

- **Traffic signal data acquisition, analysis, and management**: Deployment of technology that actively impacts the management, operation, and maintenance of traffic signal systems through real-time data collection and signal control to meet congestion management and system responsiveness objectives. Data collection could be from infrastructure sensors and cameras, mobile and connected sources (in-vehicle and portable devices), or other external sources. Performance-driven management of traffic systems is a proven approach to shifting resources from reactive to proactive processes to produce improved outcomes for internal and external stakeholders. DOT has been working to accelerate the implementation of technologies that advance these strategies.

- **Unified fare collection and payment system across transportation modes and jurisdictions**: Technological advancements in payment systems allow convergence across both publicly-delivered and privately-delivered mobility services. However, field implementations have been achieved only sparingly and in small projects. Convergence will enhance consumer payment options and mode choices and forge partnerships among providers to achieve a seamless, accessible, and flexible transportation network across the Nation. DOT is engaged in efforts which will assist in identifying technical, institutional, and policy solutions to achieve unified transportation payment systems.

- **Incorporation of connected vehicle (CV) technology in public sector and first responder fleets**: The use of CV technologies in infrastructure and integrated into public sector and first responder fleets can provide valuable system performance data, increased safety and response time via signal preemption capabilities and routing information, and better fleet operation. DOT is interested in early deployment opportunities of CV technologies that increase safety and has public benefit.

- **Weigh-in-Motion (WIM) facilities for advanced data collection**: WIM technology allows for the capture and recording of heavy vehicles' axle and gross weights while traveling at normal traffic speed without requiring the vehicle to stop. These deployments, either existing or new, would be capable of high-quality and shareable data as part of its standard operation to support infrastructure and safety management needs. They would provide strategic coverage for a State's highway freight network. The DOT is interested in this technology to provide more efficient movement of goods through the collection
and sharing of data needed to make better policy decisions at the State and national level.

- **Dynamic ridesharing**: Dynamic ridesharing deploys the latest communications technologies and social network structures to bring drivers and riders together quickly and efficiently. This strategy can reduce the number of single passenger trips which reduces overall fuel consumption and greenhouse gas emissions. DOT considers dynamic ridesharing as a potential step-change improvement to carpooling when brought up to scale.

5. **DELIVERABLES**

The selected ATCMTD awardees shall provide a schedule for the project deliverables that includes at a minimum the following items.

<table>
<thead>
<tr>
<th>Deliverable</th>
<th>Approximate Due Date</th>
<th>Section 508 Compliant?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kick-off Meeting – Conduct a kick-off meeting with DOT at mutually-agreed-upon location.</td>
<td>Within 4 weeks after award.</td>
<td>No</td>
</tr>
<tr>
<td>Monthly Progress Reports – submit progress reports to document activities performed, anticipated activities, and any changes to schedule or anticipated issues.</td>
<td>Monthly</td>
<td>No</td>
</tr>
<tr>
<td>Report to the Secretary – submit a report describing the deployment and operational costs compared to the benefits and savings, and how the project has met the original expectations projected in the deployment plan.</td>
<td>Annually beginning one year after award.</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Note**: Section 508 requirements are included in NOFO Section F’s General Terms and Conditions available online at: [http://www.fhwa.dot.gov/aaa/generaltermsconditions.cfm](http://www.fhwa.dot.gov/aaa/generaltermsconditions.cfm).
SECTION B – FEDERAL AWARD INFORMATION

1. FUNDING AND NUMBER OF AWARDS

For each fiscal year from 2016 through 2020, a maximum of $60 million, less up to $2 million for DOT administrative expenses, will be available to make 5 to 10 awards not exceeding $12 million each depending on the number of awards and the amount reserved for DOT administrative expenses. This Notice of Funding Opportunity is the first of annual solicitations for ATCMTD.

2. TYPE OF AWARD

The planned award type is a cost-reimbursable Cooperative Agreement or an allocation to a State.

3. PERIOD OF PERFORMANCE

The estimated period of performance is between one and four years.

4. DEGREE OF FEDERAL INVOLVEMENT

The DOT anticipates substantial Federal involvement with the ATCMTD recipients during the course of these projects. The anticipated Federal involvement will include technical assistance and guidance to the recipient.
SECTION C – ELIGIBILITY INFORMATION

1. ELIGIBLE APPLICANTS

Eligible applicants are State or local governments, transit agencies, metropolitan planning organizations (MPO) representing a population of over 200,000, or 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.

Typically, a consortium is a meaningful arrangement with all members involved in planning the overall direction of the group’s activities and participating in most aspects of the group; the consortium is a long-term relationship intended to last the full life of the grant. Any application submitted by a sole research or academic institution and that is not part of a consortium will not be considered for selection.

2. COST SHARING OR MATCHING

Cost sharing or matching is required, with the maximum Federal share being 50%; hence, this NOFO requires a minimum non-federal cost share of 50%. Cost sharing or matching means the portion of project costs not paid by Federal funds. For a more complete definition, please see the Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards at 2 CFR Part 200, including section 200.306 on Cost Sharing or matching. Other Federal funds using their appropriate matching share may be leveraged for the deployment but cannot be considered as part of the ATCMTD matching funds, unless otherwise supported by statute.

3. OTHER INFORMATION

The ATCMTD recipients may use not more than five percent of the funds awarded each fiscal year to carry out planning and reporting requirements for the project.

The DOT encourages applicants to identify any project components that have independent utility and separately detail the costs and requested ATCMTD funding for each component in their applications. If the application identifies one or more independent project components, the application should clearly identify how each
independent component addresses the selection criteria and produces benefits on its own, and describe how the full proposal, of which the independent component is a part, addresses the selection criteria.
SECTION D – APPLICATION AND SUBMISSION INFORMATION

1. ADDRESS TO REQUEST APPLICATION PACKAGE

Applicants may obtain application forms at grants.gov under the Notice of Funding Opportunity Number cited herein.

The Applicant must complete and submit all forms included in the application package for this Notice as contained at www.grants.gov.

2. CONTENT AND FORM OF APPLICATION SUBMISSION


i) Cover Page Including the Following Table:

<table>
<thead>
<tr>
<th>Project Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Previously Incurred Project Cost</td>
<td>$</td>
</tr>
<tr>
<td>Future Eligible Project Cost</td>
<td>$</td>
</tr>
<tr>
<td>Total Project Cost</td>
<td>$</td>
</tr>
<tr>
<td>ATCMTD Request</td>
<td>$</td>
</tr>
<tr>
<td>Total Federal Funding (including ATCMTD)</td>
<td>$</td>
</tr>
<tr>
<td>Are matching funds restricted to a specific project component? If so, which one?</td>
<td>Yes/No</td>
</tr>
<tr>
<td>State(s) in which the project is located</td>
<td></td>
</tr>
<tr>
<td>Is the project currently programmed in the:</td>
<td>Yes/No – please specify in which plans the project is currently programmed</td>
</tr>
<tr>
<td>• Transportation Improvement Program (TIP)</td>
<td></td>
</tr>
<tr>
<td>• Statewide Transportation Improvement Program (STIP)</td>
<td></td>
</tr>
<tr>
<td>• MPO Long Range Transportation Plan</td>
<td></td>
</tr>
<tr>
<td>• State Long Range Transportation Plan</td>
<td></td>
</tr>
</tbody>
</table>

ii) Project Narrative
The application must include information required for DOT to determine that the project satisfies project requirements described in Sections A, B, and C and to assess the selection criteria specified in Section E.1. To the extent practicable, applicants should provide data and evidence of project merits in a form that is verifiable or publicly available. DOT may ask any applicant to supplement data in its application, but expects applications to be complete upon submission.

DOT recommends that the project narrative adhere to the following basic outline of a project description, staffing description, and funding description to clearly address the program requirements and make critical information readily apparent. In addition to 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. DOT recommends that the project narrative be prepared with standard formatting preferences (i.e., a single-spaced document, using a standard 12-point font such as Times New Roman, with 1-inch margins.) The project narrative may not exceed 25 pages in length, excluding cover pages and table of contents. The only substantive portions that may exceed the 25-page limit are documents to support assertions or conclusions made in the 25-page project narrative, or résumés of key staff described in the project narrative. If supporting documents are submitted, applicants must clearly identify within the project narrative the relevant portion of the project narrative that each supporting document supports.

a. Project Description that includes the following:

1. An introduction that provides a one to two page summary of the proposed technology deployment(s).
2. A description of the entity that will be entering into the agreement with FHWA including:
   a) membership of any partnership or entity proposed to carry out the deployment;
   b) a description of how the entity will manage the program including management of project funding.

Applicants that are multijurisdictional groups or consortia of research or academic institutions do not necessarily have to be an existing organization or coalition but should show evidence that a cooperative agreement, memorandum of understanding (MOU), or other organizational mechanism can be executed in a reasonable timeframe after selection.
Note: A multijurisdictional group is any combination of State governments, local governments, metropolitan planning agencies, transit agencies, or other political subdivisions of a State for which each member of the group has signed a written agreement to implement the advanced transportation technologies deployment initiative across jurisdictional boundaries, and is an eligible entity under this paragraph.

3. A description of the geographic area or jurisdiction the deployment will service.

4. A description of the real world issues and challenges to be addressed by the proposed technology deployments. Applicants should discuss how the proposed technology deployments address the goals of the initiative, and any applicable technology focus area. Applicants should highlight any proposed linkages to Ladders of Opportunity pathways to jobs and economic opportunities as described in Section A.3.

5. A description of transportation systems and services to be included in project.

6. A plan to deploy and provide for the long-term operation and maintenance of advanced transportation and congestion management technologies to improve safety, efficiency, system performance, and return on investment.

7. A description of any challenges in the regulatory, legislative, or institutional environments or other obstacles to deployment.

8. Quantifiable system performance improvements, such as--
   a) reducing traffic-related crashes, congestion, and costs;
   b) optimizing system efficiency; and
   c) improving access to transportation services.

9. Quantifiable safety, mobility, and environmental benefit projections such as data-driven estimates of how the project will improve the region's transportation system efficiency and reduce traffic congestion.

10. Vision, goals, and objectives of the applicant for the technology deployment, including any future related deployments; the vision of the organization and goals, objectives, and activities to be pursued in addressing the identified issues and challenges.

11. A plan for partnering with the private sector or public agencies, including multimodal and multijurisdictional entities, research institutions, organizations representing transportation and technology leaders, or other transportation stakeholders.

12. A plan to leverage and optimize existing local and regional advanced transportation technology investments.

13. A schedule for conducting the technology deployment and for completion of
all proposed activities.

14. Any support or leveraging of the ITS program or innovative technology initiatives (DOT ITS initiatives are described on-line at http://www.its.dot.gov.)

b. Staffing Description that includes the following:

1. A description of the organization of staffing to manage and conduct the project, including identification of key personnel, organization, role, and responsibility.
2. A primary point of contact and provide complete contact information for this individual.

c. Funding Description

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

Note: 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. The maximum amount that will be awarded will depend on the number of awards and the amount reserved for DOT administrative expenses. 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.

Organizational Information

In addition to the forms noted above, provide answers to the following organizational information questions in a pdf format:

a. Identify any exceptions to the anticipated award terms and conditions as contained in Section F, Federal Award Administration Information. Identify any preexisting intellectual property that you anticipate using during award performance, and your position on its data rights during and after the award period of performance.

b. The use of a Dun and Bradstreet (D&B) Data Universal Numbering System (DUNS) number is required on all applications for Federal grants or cooperative agreements. Please provide your organization’s DUNS number in your budget application.
c. A statement to indicate whether your organization has previously completed an A-133 Single Audit and, if so, the date that the last A-133 Single Audit was completed.

d. A statement regarding Conflicts of Interest. The Applicant must disclose in writing any actual or potential personal or organizational conflict of interest in its application that describes in a concise manner all past, present or planned organizational, contractual or other interest(s), which may affect the Applicants’ ability to perform the proposed project in an impartial and objective manner. Actual or potential conflicts of interest may include but are not limited to any past, present or planned contractual, financial, or other relationships, obligations, commitments or responsibilities, which may bias the Applicant or affect the Applicant’s ability to perform the agreement in an impartial and objective manner. The Agreement Officer (AO) will review the statement(s) and may require additional relevant information from the Applicant. All such information, and any other relevant information known to DOT, will be used to determine whether an award to the Applicant may create an actual or potential conflict of interest. If any such conflict of interest is found to exist, the AO may (a) disqualify the Applicant, or (b) determine that it is otherwise in the best interest of the United States to contract with the Applicant and include appropriate provisions to mitigate or avoid such conflict in the agreement pursuant to 2 CFR 200.112.

e. A statement to indicate whether a Federal or State organization has audited or reviewed the Applicant’s accounting system, purchasing system, and/or property control system. If such systems have been reviewed, provide summary information of the audit/review results to include as applicable summary letter or agreement, date of audit/review, Federal or State point of contact for such review.

f. Terminated Contracts - List any contract/agreement that was terminated for convenience of the Government within the past 3 years, and any contract/agreement that was terminated for default within the past 5 years. Briefly explain the circumstances in each instance.

g. The Applicant is directed to review Title 2 CFR §170 (http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&tpl=/ecfrbrowse/Title02/2cfr170_main_02.tpl) dated September 14, 2010, and Appendix A thereto, and acknowledge in its application that it understands the requirement, has the necessary processes and systems in place, and is prepared to fully comply with the reporting described in the term if it receives funding resulting from this Notice. The text of Appendix A will be incorporated in the award document as a General Term and Condition as referenced under this Notice’s Section F, Federal Award Administration Information.
h. Disclose any violations of Federal criminal law involving fraud, bribery, or gratuity violations. Failure to make required disclosures can result in any of the remedies described in 2 CFR 200.338 entitled Remedies for Noncompliance, including suspension or debarment. (See also 2 CFR Part 180 and 31 U.S.C. 3321).

3. UNIQUE ENTITY IDENTIFIER AND SYSTEM FOR AWARD (SAM)

The Applicant is required to: (i) be registered in SAM before submitting its application; (ii) provide a valid unique entity identifier in its application; and (iii) continue to maintain an active SAM registration with current information at all times during which it has an active Federal award or an application or plan under consideration by a Federal awarding agency.

The Federal awarding agency may not make a Federal award to an Applicant until the Applicant has complied with all applicable unique entity identifier and SAM requirements. If an Applicant has not fully complied with the requirements by the time the Federal awarding agency is ready to make a Federal award, the Federal awarding agency may determine that the Applicant is not qualified to receive a Federal award and use that determination as a basis for making a Federal award to another Applicant.

4. SUBMISSION DATES AND TIMES

The application must be submitted through www.Grants.gov by the application due date/time listed on page 3 of this Notice of Funding Opportunity.

The deadline stated on page 3 is the date and time by which the agency must receive the full and completed application, including all required sections.

To submit an application through Grants.gov, applicants must:
   a. Obtain a Data Universal Numbering System (DUNS) number;
   b. Register with the SAM at www.sam.gov;
   c. Create a Grants.gov username and password; and
   d. The E-business Point of Contact (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. Please note that there can only be one Authorized Organization Representative per organization.

Please note that the Grants.gov registration process usually takes 2–4 weeks to complete and late applications that are the result of failure to register or comply with
Grants.gov applicant requirements in a timely manner will not be considered. For information and instruction on each of these processes, please see instructions at http://www.grants.gov/web/grants/applicants/applicant-faqs.html. If interested parties experience difficulties at any point during the registration or application process, please call the Grants.gov Customer Service Support Hotline at 800-518–4726, from 7:00 a.m. to 9:00 p.m., e.t., Monday through Friday.

Only applicants who comply with all submission deadlines described in this notice and submit applications through Grants.gov will be eligible for award. Applicants are strongly encouraged to make submissions in advance of the deadline.

Applicants interested in applying are encouraged to email ATCMTD@dot.gov no later than May 13, 2016, with applicant name, State in which project is located, approximate total project cost, amount of the ATCMTD grant request, and a two- to three-sentence project description. The DOT seeks this early notification of interest to inform its allocation of resources for application evaluations and to facilitate timely and efficient awards.

Applications received after the deadline will not be considered except in the case of unforeseen technical difficulties or issues with Grants.gov that are beyond the applicant’s control. In that case, the applicant must contact ATCMTD@dot.gov prior to the application deadline with the user name of the registrant and details of the technical issue experienced. The applicant must provide:

a. Details of the technical issue experienced;
b. Screen capture(s) of the technical issues experienced along with corresponding Grants.gov grant tracking number;
c. The legal business name for the applicant that was provided in the SF–424;
d. The AOR name submitted in the SF–424;
e. The DUNS number associated with the application; and
f. The Grants.gov Help Desk Tracking Number.

To ensure a fair competition of limited discretionary funds, the following conditions are not valid reasons to permit late submissions: (1) Failure to complete the registration process before the deadline; (2) failure to follow Grants.gov instructions on how to register and apply as posted on its Web site; (3) failure to follow all of the instructions in this notice; and (4) technical issues experienced with the applicant’s computer or information technology environment. After DOT staff review all information submitted and contact the Grants.gov Help Desk to validate reported technical issues, DOT staff will contact late applicants to approve or deny a request to submit a late application.
through Grants.gov. If the reported technical issues cannot be validated, late applications will be rejected as untimely.

5. INTERGOVERNMENTAL REVIEW

An application under this Notice of Funding Opportunity is not subject to the State review under E.O. 12372.

6. FUNDING RESTRICTIONS

The DOT will not reimburse any pre-award costs or application preparation costs.

7. USE OF INFORMATION FOR OTHER DEPARTMENTAL PURPOSES

Information collected from all applicant submissions may be used for government purposes, including to understand the range of ATCMTD activities planned and ongoing in locations, and to determine maturity of locations within this framework. In addition, information gathered through this Notice may be used to conduct outreach and engagement related future similar opportunities.
SECTION E – APPLICATION REVIEW INFORMATION

1. CRITERIA FOR SELECTION OF ATCMTD AWARDS

The Government will evaluate applications on following criteria, which are of equal importance.

TECHNICAL MERIT:

- Degree that the proposed technology deployment aligns with program requirements and DOT goals, including safety, innovation, and opportunity.
- Readiness of the proposed technology(ies) to be deployed, and the likelihood of success of the applicant to deploy and sustain the proposed technology(ies), including the 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.

STAFFING:

- Degree that the Application includes a program/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.

The Department 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. The Department may consider whether a project’s design is likely to generate benefits for all users of the proposed project, including non-driving members of a community adjacent to or affected by the project.
2. REVIEW AND SELECTION PROCESS

The DOT will utilize the following merit review process to evaluate applications:

The DOT will review all eligible applications received before the application deadline. The ATCMTD process consists of a technical evaluation phase and senior review. In the technical evaluation phase, teams will determine whether each project satisfies statutory requirements and rate how well it addresses selection criteria. The senior review team will consider the applications and the technical evaluations to determine which projects to advance to the Secretary for consideration. Evaluations in both the technical evaluation and senior review phases will place projects into rating categories, not assign numerical scores. The Secretary will select the projects for award. The DOT reserves the right to use outside expertise and/or contractor support to perform application evaluation. A panel of Agency experts will conduct a risk assessment of the applicant prior to award.

The DOT will award the applications that are considered the most advantageous to the DOT using the criteria cited above, and subject to the results of an Applicant risk assessment. In addition, per 23 USC 503(c)(4)(D)(i) and (ii), the DOT shall ensure, to the extent practicable, that grant recipients represent diverse geographic areas of the United States, including urban and rural areas, and that grant recipients represent diverse technology solutions.

Prior to award, each selected applicant will be subject to a risk assessment required by 2 CFR 200.205. The DOT must review and consider any information about the applicant that is in the designated integrity and performance system accessible through SAM (currently the Federal Awardee Performance and Integrity Information System (FAPIIS)). An applicant may review information in FAPIIS and comment on any information about itself. The DOT will consider comments by the applicant, in addition to other information in FAPIIS, in making a judgment about the applicant’s integrity, business ethics, and record of performance under Federal awards when completing the risk assessment. The DOT reserves the right to deny an award based on the results of the risk assessment.

The Secretary of Transportation is the official responsible for final award selections. The DOT is not obligated to make any award as a result of this notice.
Risk Assessment

The DOT will assess the risks posed by an Applicant before they receive an award. This Risk Assessment will include evaluation of some or all of the following items relative to the Applicant and/or sub-applicants as applicable:

(1) Applicant's financial stability;

(2) Applicant’s quality of management systems and ability to meet the management standards prescribed in 2 CFR Part 200;

(3) Applicant’s history of performance;

Note: History of performance includes the Applicant's record in managing Federal awards, if it is a prior Recipient of Federal awards, including timeliness of compliance with applicable reporting requirements, conformance to the terms and conditions of previous Federal awards, and if applicable, the extent to which any previously awarded amounts will be expended prior to future awards. The Government will evaluate the relevant merits of the Applicant’s history of performance based on its reputation and record with its current and/or former customers with respect to quality, timeliness and cost control. The history of performance will be reviewed to assure that the Applicant has relevant and successful experience and will be considered in the risk assessment. In evaluating history of performance, the Government may consider both written information provided in the application, as well as any other information available to the Government through outside sources.

(4) Applicant's audit reports and findings from audits performed on the Applicant pursuant to 2 CFR Part 200 Subpart F—Audit Requirements or the reports and findings of any other available audits;

(5) Applicant's ability to effectively implement statutory, regulatory, or other requirements imposed on non-Federal entities;

(6) Applicant's potential for conflict of interest if applicable; and

Note: The FHWA will review information provided by the Applicant, and any other relevant information known to DOT, to determine whether an award to the Applicant may create an actual or potential conflict of interest. If any such conflict of interest is found to exist, the FHWA may (a) disqualify the Applicant, or (b) determine that it is otherwise in the best interest of the United States to award to
the Applicant and include appropriate provisions to mitigate or avoid such conflict in the Agreement pursuant to 2 CFR 200.112.

(7) Applicant's eligibility to receive Federal funding. Per the guidelines on government-wide suspension and debarment in 2 CFR Part 180, the Government will confirmation that the Applicant and any named sub-applicants are not debarred, suspended or otherwise excluded from or ineligible for participation in Federal programs or activities.

Pursuant to 2 CFR Part 200.205, prior to making a Federal award, the Federal awarding agency is required to review information available through any OMB-designated repositories of government-wide eligibility qualification or financial integrity information, such as Federal Awardee Performance and Integrity Information System (FAPIIS), Dun and Bradstreet, and Sam.gov. The Government’s review of this information will occur as part of the risk assessment.

3. **ANTICIPATED FEDERAL AWARD DATES**

The DOT anticipates awarding funds for advanced transportation and congestion management technologies deployments in September 2016.
SECTION F – FEDERAL AWARD ADMINISTRATION INFORMATION

1. FEDERAL AWARD NOTICES

Following the evaluation outlined in section E, the DOT will notify the selected applicants and announce the selected projects. Notice that an applicant has been selected as a recipient does not constitute approval of the application as submitted. Before the award, the DOT will contact the POC listed in the SF 424 to initiate negotiation of a project specific agreement. If the negotiations do not result in an acceptable submittal, the DOT reserves the right to terminate the negotiation and decline to fund the applicant.

2. ADMINISTRATIVE AND NATIONAL POLICY REQUIREMENTS

All awards will be administered pursuant to the Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards found in 2 CFR 200, as adopted by DOT at 2 CFR 1201. Applicable Federal laws, rules, and regulations set forth in 23 U.S.C. and 23 CFR also apply. For a list of the applicable laws, rules, regulations, executive orders, polices, guidelines, and requirements related to ATCMTD projects, please see http://www.fhwa.dot.gov/aaa/generaltermsconditions.cfm.

3. REPORTING

Each applicant selected for an ATCMTD grant 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 to monitor the use of Federal funds and ensure accountability and financial transparency in the ATCMTD program.

If the total value of a selected applicant’s currently active grants, cooperative agreements, and procurement contracts from all Federal awarding agencies exceeds $10 million at any time during the period of performance, then the applicant must maintain the currency of information reported to the SAM and made available in the FAPIIS about civil, criminal, or administrative proceedings described in paragraph 2 of the award terms and conditions. This is a statutory requirement under section 872 of Public Law 110–417, as amended (41 U.S.C. 2313). As required by section 3010 of Public Law 111–212, all information posted in the designated integrity and performance system on or after April 15, 2011, except past performance reviews required for Federal procurement contracts, will be publicly available.
Per 23 U.S.C. 503(c)(4)(F), not later than 1 year after receiving an ATCMTD grant, and each year thereafter, the recipient shall submit a report to the Secretary that describes:

i. Deployment and operational costs of the project compared to the benefits and savings the project provides; and

ii. How the project has met the original expectations projected in the deployment plan submitted with the application, such as:
   a. data on how the project has helped reduce traffic crashes, congestion, costs, and other benefits of the deployed systems;
   b. data on the effect of measuring and improving transportation system performance through the deployment of advanced technologies;
   c. the effectiveness of providing real time integrated traffic, transit, and multimodal transportation information to the public to make informed travel decisions; and
   d. lessons learned and recommendations for future deployment strategies to optimize transportation efficiency and multimodal system performance.

SECTION G – FEDERAL AWARDING AGENCY CONTACTS

Address any questions to:

ATCMTD@dot.gov