

ACCELERATED INNOVATION DEPLOYMENT DEMONSTRATION
NOTICE OF FUNDING OPPORTUNITY NUMBER
FHWA-2016-21063
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The FHWA will use an open, rolling solicitation. The project must be authorized within 6 months of receiving the AID Demonstration award. Completed applications will be evaluated and award determinations made on a rolling basis until the program ends or funding is no longer available. Applications must be submitted through <http://www.grants.gov>.

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Agency: Federal Highway Administration (FHWA), Department of Transportation (DOT).
Action: Notice of Correction

Summary: This notice corrects information in the September 1, 2016, [Notice of Funding Opportunity \(NOFO\) at 81 FR 60403](#) and [Notice of Correction at 81 FR 71164](#) in reference to the amount of time by which a project must be authorized after award notification of Accelerated Innovation Deployment (AID) Demonstration funding; prioritization of eligible transportation innovations; and update of application and submission information.

Dates: The Federal Highway Administration (FHWA) will use an open, rolling solicitation. The project must be authorized within 6 months of receiving the AID Demonstration award. Completed applications will be evaluated and award determinations made on a rolling basis until the program ends or funding is no longer available. Applications must be submitted through <http://www.grants.gov>.

For Further Information Contact: For questions about the AID Demonstration program discussed herein, contact Mr. Thomas Harman, Director, Center for Accelerating Innovation, Federal Highway Administration, 1200 New Jersey Avenue SE., Washington, DC 20590, (202) 366-6377. For legal questions, contact Ms. Seetha Srinivasan, Office of the Chief Counsel, Federal Highway Administration, 1200 New Jersey Avenue SE., Washington, DC 20590, (202) 366-4099. Office hours are from 8:00 a.m. to 4:30 p.m., E.T., Monday through Friday, except Federal holidays. A TDD is available for individuals who are deaf or hard of hearing at (202) 366-3993.

Additionally, the notice, answers to questions, requests for clarification, and information about Webinars for further guidance will be posted at: <http://www.fhwa.dot.gov/accelerating/grants>. Applicants are encouraged to contact FHWA directly to receive information about AID Demonstration.

Supplementary Information: This notice solicits applications for AID Demonstration. Each section of this notice contains information and instructions relevant to the application process for AID Demonstration grants. The applicant should read this notice in its entirety to submit eligible applications.

Table of Contents
A. Program Description
B. Federal Award Information
C. Eligibility Information
D. Application and Submission Information
E. Application Review Information
F. Federal Award Administration Information

NOTICE OF CORRECTION (CONTINUED)
OPPORTUNITY NUMBER FHWA-2016-21063

G. Federal Awarding Agency Contacts

On December 4, 2015, President Obama signed into law the FAST Act (Pub. L. 114-94), which continues the TIDP under 23 U.S.C. 503 to implement accelerated innovation deployment. The TIDP relates to all aspects of highway transportation including planning, financing, operation, structures, materials, pavements, environment, and construction.

Section 503(c)(1) specifies the following TIDP goals: (A) Significantly accelerate the adoption of innovative technologies by the surface transportation community; (B) provide leadership and incentives to demonstrate and promote state-of-the-art technologies, elevated performance standards, and new business practices in highway construction processes that result in improved safety, faster construction, reduced congestion from construction, and improved quality and user satisfaction; (C) construct longer-lasting highways through the use of innovative technologies and practices that lead to faster construction of efficient and safe highways and bridges; (D) improve highway efficiency, safety, mobility, reliability, service life, environmental protection, and sustainability; and (E) develop and deploy new tools, techniques, and practices to accelerate the adoption of innovation in all aspects of highway transportation. The AID Demonstration is one aspect of the multifaceted TIDP approach and provides funding as an incentive for eligible entities to accelerate the implementation and adoption of proven innovation in highway transportation.

Section 6002 of the FAST Act authorized \$67,000,000 for TIDP for FY 2016 and \$67,500,000 for FY 2017 through 2020. The Funds are subject to the overall Federal-aid obligation limitation and the obligation limitation associated with these funds is available for 4 fiscal years. The amount of TIDP budget authority available in a given year may be less than the amount authorized for that fiscal year. The TIDP funds are available at an 80 percent Federal share, which require a minimum mandatory 20 percent cost share. The Federal share of a project or activity carried out with funds authorized under section 6002 of the FAST Act shall be 80 percent unless expressly specified otherwise by the Act or otherwise determined by the Secretary. [FAST Act § 6002(c)(1)]

The FHWA expects approximately \$10 million to be made available for AID Demonstration in each FY 2016 through 2020 from amounts authorized under section 6002 of the FAST Act. The planned award type is a grant that is allocated to a State department of transportation (State DOT) through project authorization, or for Federal Land Management Agencies and tribes through existing agreements with FHWA Federal Lands Highways Division. The FHWA has funding award goals of up to \$9 million available to State DOTs per FY and up to \$1 million available to Federal Land Management Agencies and tribal governments per FY. To support federal investment in distressed areas, including opportunity zones, the FHWA may also consider whether a project is located in a qualified opportunity zone designated pursuant to section 1400X-1 of title 26, U.S.C. These goals will be reviewed annually and may be adjusted to reflect current priorities and needs.

The amount of each award may be up to the full cost of the innovation, but only to a maximum of \$1 million. Awards are limited per FY of up to two per State DOT applicant, with up to one award for a State DOT and up to one award for a subrecipient applying through the State DOT, and limited to one award per applicant for Federal Land Management Agencies and tribal governments, subject to the number of eligible applications and the availability of funds.

A. Program Description

B. Federal Award Information

NOTICE OF CORRECTION (CONTINUED)
OPPORTUNITY NUMBER FHWA-2016-21063

Award recipients shall submit a final report to FHWA within 6 months of project completion based on the plan described in Section F (Federal Award Administration Information), which documents the process, benefits, and lessons learned including development and/or refinement of guidance, specifications or other tools and methods to support rapid adoption of the innovation(s) as standard practice, as well as level of commitment by recipient to deploy the innovation as standard practice.

Entities Eligible to Apply for Funding

The AID Demonstration provides incentive funding for eligible entities to accelerate the implementation and adoption by the applicant of proven innovation in highway transportation. Section 502(b)(3) of title 23, U.S.C., authorizes the Secretary to award grants to a wide range of entities. The FHWA will provide AID Demonstration grants to eligible State DOTs, Federal Land Management Agencies, and tribal governments. These entities are the most likely to fulfill the deployment goals of the AID Demonstration program, since they are actively engaged in the deployment of new technologies. Consistent with other FHWA funding provided to tribes, any federally recognized tribe identified on the list of “Indian Entities Recognized and Eligible to Receive Services from the Bureau of Indian Affairs” (published at 77 FR 47868) is eligible to apply for AID Demonstration. Metropolitan planning organizations and local governments may apply through the State DOT as a subrecipient. Eligible entities must be able to deploy innovations that have not graduated into widespread practice. The list of innovations that have graduated into widespread practice and are therefore ineligible for these awards can be found on the CAI website: <https://www.fhwa.dot.gov/innovation/grants/>. Eligible entities should state whether the proposed project is located in a qualified opportunity zone, designated pursuant to [section 1400Z-1 of title 26, U.S.C.](#).

C. Eligibility Information

Eligible Uses of Funds

The AID Demonstration funds are available for any project activities eligible for assistance under title 23, U.S.C. Eligible activities may involve any phase of a highway transportation project between project planning and project delivery, including planning, financing, operation, structures, materials, pavements, environment, and construction that address the TIDP goals mentioned in Section A (Program Description). Projects eligible for funding must pilot and demonstrate for the applicant proven innovative practices or technologies, which the applicant or subrecipient intends to implement and adopt as a significant improvement from the applicant's or the subrecipient's conventional practice.

Applications must be submitted through <http://www.grants.gov>. The FHWA will award TIDP AID Demonstration funds to projects based on eligibility outlined in Section C (Eligibility Information) and the selection criteria outlined in Section E (Application Review Information).

D. Application and Submission Information

The FHWA will use an open, rolling solicitation, until the program ends or funding is no longer available. Project readiness will be treated as primary selection criteria in FHWA's evaluation process. The project must be authorized within 6 months of receiving the AID Demonstration award. An eligible project must be a pilot deployment for the applicant of a proven innovation previously deployed by others and align with the previously described TIDP goals. The innovation must be proven in real-world highway transportation application with documented benefits (in a form that is publicly available or verifiable), not routinely used by the applicant or the subrecipient, and represent a significant improvement from the applicant's or the subrecipient's conventional practice. The FHWA encourages the use of innovations included in the Every Day Counts (EDC) initiative. Please go to the following link to see examples and benefits of EDC innovations: <https://www.fhwa.dot.gov/innovation/everydaycounts/>.

NOTICE OF CORRECTION (CONTINUED)
OPPORTUNITY NUMBER FHWA-2016-21063

The FHWA intends to ensure a wide variety of innovations and project types. To do so, the FHWA intends to give priority funding consideration to projects using innovations that have not previously received TIDP funding along with those projects using innovations that have not advanced to mainstream, widespread use and practice. The innovations that have advanced to mainstream, widespread use and practice are deemed innovation graduates and are no longer eligible for AID Demonstration funding. However, FHWA Program Offices and the FHWA Resource Center will continue to support deployment of these innovations through other training and technical support activities. The list of innovations that have graduated to widespread use and are therefore ineligible for these awards can be found on the CAI website: <https://www.fhwa.dot.gov/innovation/grants/>.

To support federal investment in distressed areas, including opportunity zones, the FHWA may also consider whether a project is located in a qualified opportunity zone designated pursuant to [section 1400Z-1 of title 26, U.S.C.](#)

In the application, the applicant or the subrecipient must indicate willingness to: (1) Participate in monitoring and assessment activities regarding the effectiveness of the innovation(s) and subsequent technology transfer and information dissemination activities associated with the project; (2) accept FHWA oversight of the project; and (3) conduct a before and after customer satisfaction determination.

I. Contents of Applications

The Applicant must complete and submit all requested application package forms, and upload required application package information, directly online at www.grants.gov under the Notice of Funding Opportunity Number cited herein. The applicant shall include all of the information requested below in their applications. The FHWA may request applicants to supplement the data in the application, but encourages applicants to submit the most relevant and complete information they can provide. The applicant should, to the extent practicable, provide data and evidence of project merits in a form that is publicly available or verifiable.

Application Process (I. thru IV.)

Applicants must create a workspace and complete online forms or download and upload individual PDF forms. If downloading, check the PDF software compatibility. A complete application will consist of: (1) the Standard Form 424 (SF 424) available from Grants.gov, and (2) the narrative attachment to the SF 424 as described below.

Applicants should refer to the Grants.gov <https://www.grants.gov/web/grants/forms.html> to access and instruction for the current SF 424 used to create grant application packages in Grants.gov.

III. Narrative (Attachment to SF 424)

The applicant or subrecipient shall include the supplemental narrative in the attachments section of the SF 424 mandatory form in Grants.gov to successfully complete the application process.

The applicant or subrecipient shall respond to all the application requirements described below. The supplemental narrative shall be prepared with standard formatting (e.g. a single-spaced document, using a standard 12-point font, such as Times New Roman, with 1-inch margins) and answers to sections one through six below should not exceed 5 pages.

NOTICE OF CORRECTION (CONTINUED)
OPPORTUNITY NUMBER FHWA-2016-21063

An application shall include information needed to verify that the project meets the statutory eligibility criteria as described in Section C (Eligibility Information) as well as other information required for FHWA to assess each of the selection criteria specified in Section E (Application Review Information). The applicant or subrecipient is required to demonstrate the responsiveness of the proposal to any pertinent selection criteria with the most relevant information that applicants can provide, regardless of whether such information is specifically requested or identified. The applicant or subrecipient shall provide concrete evidence of project milestones, financial capacity, and commitment in order to support project readiness.

For ease of review, the narrative should generally adhere to the following basic outline, and include relevant maps and graphics:

1. **Project Abstract:** Describe work that would be completed under the project, whether the project is a complete project or part of a larger project with prior investment, and the aspect of highway transportation and the TIDP goals that the innovation would address (maximum five sentences). The project abstract should succinctly describe how this specific request for AID Demonstration funding would be included in the project.
2. **Project Description:** Brief description of the project and project objective(s), the innovation and related documented benefits, the performance goals and measures for the innovation, current organizational/institutional experience with the innovation, and the significant improvement to conventional practice expected. Note whether the proposed project is located in a qualified opportunity zone designated pursuant to [section 1400Z-1 of title 26, U.S.C.](#)
3. **Innovation Performance:** Brief description of how the innovation will be monitored, assessed, and documented to determine if the performance goals and measures are achieved, including a timeline of demonstration, deployment, implementation, and/or adoption activities.
4. **Applicant information and coordination with other entities:** Identification of applicant, and subrecipient if applicable; description of cooperation with other entities; and information regarding any other entities involved in the project.
5. **Funding Request:** Summary of the funding request including the basis for determining the cost of the innovation in the project (note: a project cost estimate may be the best source for providing this data and may be provided as an additional attachment). The applicant should also include the total project cost, identifying Federal and non-Federal shares of project costs.
6. **Eligibility and Selection Criteria:** Brief description of how the project meets the statutory eligibility criteria as described in Section C (Eligibility Information) and the selection criteria identified in Section E (Application Review Information).

IV. Contact Information

The applicant or subrecipient should include contact information requested as part of the SF-424. The FHWA will use this information to contact applicants and to inform parties of FHWA's decision regarding award determination. Contact information should be provided for a direct employee of the applicant. Contact information for a contractor, agent, or consultant of the lead applicant is insufficient for FHWA's purposes.

NOTICE OF CORRECTION (CONTINUED)
OPPORTUNITY NUMBER FHWA-2016-21063

Applications for AID Demonstration shall be submitted through Grants.gov. To apply for funding through Grants.gov, applicants must be properly registered. Complete instructions on how to register and apply can be found at www.grants.gov. If interested parties experience difficulties at any point during the registration or application process, they should call the Grants.gov Customer Support Hotline at 1-800-518-4726, Monday-Friday from 7:00 a.m. to 9:00 p.m., e.t.

Registering with Grants.gov is a one-time process, however, processing delays may occur and it can take up to several weeks for first-time registrants to receive confirmation and a user password. Accordingly, FHWA highly recommends that potential applicants start the registration process as early as possible. In order to apply for AID Demonstration under this notice and to apply for funding through Grants.gov, all applicants are required to complete the following:

1. Acquire a Data Universal Numbering System (DUNS) Number. A DUNS number is required for Grants.gov registration. The Office of Management and Budget requires that all applicants for Federal funds include a DUNS number in their applications for a new award or renewal of an existing award. A DUNS number is a unique nine-digit sequence recognized as the universal standard for identifying and keeping track of entities receiving Federal funds. The identifier is used for tracking purposes and to validate address and point of contact information for Federal assistance applicants, recipients, and subrecipients. The DUNS number will be used throughout the grant life cycle. Obtaining a DUNS number is a free, one-time activity that can be completed by calling 1-866-705-5711 or by applying online at <http://fedgov.dnb.com/webform>.

2. Acquire or Renew Registration with the System for Award Management (SAM) Database. All applicants for Federal financial assistance maintain current registrations in the SAM database. An applicant must be registered in the SAM to successfully register in Grants.gov. The SAM database is the repository for standard information about Federal financial assistance applicants, recipients, and subrecipients. Entities that have previously submitted applications via Grants.gov are already registered with SAM, as it is a requirement for Grants.gov registration. Please note, however, that applicants must update or renew their SAM registration at least once per year to maintain an active status, so it is critical to check registration status well in advance of relevant application deadlines. Information about SAM registration procedures can be accessed at: <https://www.sam.gov/portal/public/SAM/>

Each applicant (unless the applicant is an individual or Federal awarding agency that is excepted from those requirements under [2 CFR § 25.110\(b\)](#) or (c), or has an exception approved by the Federal awarding agency under [2 CFR § 25.110\(d\)](#)) 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.

FHWA may not make a Federal award to an applicant until the applicant has complied with all applicable unique entity identifier and SAM requirements and, if an applicant has not fully complied with the requirements by the time the Federal awarding agency is ready to make a Federal award, FHWA 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.

NOTICE OF CORRECTION (CONTINUED)
OPPORTUNITY NUMBER FHWA-2016-21063

3. Acquire an Authorized Organization Representative (AOR) and a Grants.gov Username and Password. Applicants will need to complete an AOR profile on Grants.gov and create a username and password. The assigned DUNS Number is required to complete this step. For more information about the registration process, go to: <https://www.grants.gov/web/grants/home.html>.

4. Acquire Authorization for the AOR from the E-Business Point of Contact (E-Biz POC). The E-Biz POC for the applicant must log in to Grants.gov to confirm the applicant as an AOR. Please note that there can be more than one AOR for each applicant.

5. Search for the Funding Opportunity on Grants.gov. Applicants can use the Catalog of Federal Domestic Assistance number for this solicitation, which is 20.200, titled Technology and Innovation Development Program, when searching for the AID Demonstration opportunity on Grants.gov.

6. Submit an Application Addressing All of the Requirements Outlined in this Notice of Funding Opportunity. Within 24 to 48 hours after submitting an electronic application, applicants should receive an email validation message from Grants.gov. The validation message will specify whether the application was received and validated or rejected, with an explanation.

Note:

When uploading attachments, applicants should use generally accepted formats such as .pdf, .doc, and .xls. While applicants may embed picture files such as .jpg, .gif, .bmp, in your files, they should not save and submit the attachment in these formats. Additionally, the following formats will not be accepted: .com, .bat, .exe, .vbs, .cfg, .dat, .db, .dbf, .dll, .ini, .log, .ora, .sys, and .zip.

The FHWA will evaluate AID Demonstration applications in accordance with the evaluation process described below.

The FHWA will establish an evaluation team of technical and professional staff with relevant experience and/or expertise to review each application received by FHWA through Grants.gov. The evaluation team will be responsible for reviewing, evaluating, and rating the applications as well as making funding recommendations to FHWA senior leadership.

E. Application Review Information

After reviewing the application, the evaluation team may contact the applicant to discuss the application and confirm understanding of the requirements for participation in AID Demonstration. Based on the information collected, the evaluation team will prepare a summary assessment rating the application along with the team's recommendation. The summary assessment and recommendation will be presented to FHWA senior leadership to make a final determination on the approval of the award.

I. Selection Criteria

All applications will be evaluated on a rolling basis and be assigned a rating of "Qualified" or "Not Qualified."

The ratings are as follows:

1. Qualified—a project must meet all 8 of the following criteria and sub-criteria:
 - i. Project is ready to authorize within 6 months of applying for AID Demonstration funding, including such information as: Evidence of project milestones, financial capacity, and commitment in order to support project readiness.
 - ii. Project pilots and demonstrates an innovation with a technology readiness level of 7 or higher as defined in Table 1;

NOTICE OF CORRECTION (CONTINUED)
OPPORTUNITY NUMBER FHWA-2016-21063

- iii. Project aligns with TIDP goals to accelerate the implementation and delivery of new innovations and technologies that result from highway research and development to benefit all aspects of highway transportation.;
- iv. Innovation is proven in real-world application with documented benefits, and not routinely used by the applicant or the subrecipient;
- v. Application describes the innovation's magnitude and scope of impact on the applicant's or the subrecipient's conventional practice;
- vi. Cost estimate is included that directly supports the requested funding amount;
- vii. Information provided on performance goals and measures for respective innovation demonstration and deployment activities;
- viii. Application indicates the applicant's or subrecipient's willingness to:
 - (1) Participate in monitoring and assessment activities regarding the effectiveness of the innovation(s) and subsequent technology transfer and information dissemination activities associated with the project;
 - (2) accept FHWA oversight of the project;
 - (3) conduct before and after customer satisfaction determinations; and
 - (4) commit to deployment of the innovation as standard practice in the future, if the deployment is successful.

Phase	TRL	Description	Examples
Basic Research	1	Basic principles and research	Piezo electric energy harvesting in the roadway.
	2	Application formulated.	Agent-based modeling and simulations.
	3	Proof of concept.	
Applied Research	4	Components validated in laboratory environment.	Cooperative adaptive cruise control.
	5	Integrated components demonstrated in a laboratory environment.	Fiber-reinforced concrete columns.
Development	6	Prototype demonstrated in relevant environment.	Nondestructive testing for concrete bridge decks, Strategic Highway Research Program (SHRP) R06A.
			Software tools for sharing and integrating Geographic Information
	7	Prototype demonstrated in operational environment.	System (GIS) data.
8	Technology proven in operational environment.		
Implementation	9	Technology refined and market ready	FHWA Every Day Counts (EDC) technologies—e.g. Warm Mix Asphalt,
			Safety Edge, Design-Build, Programmatic Agreements, Accelerated
			Bridge Construction, Prefabricated Bridge Elements & Systems:
			https://www.fhwa.dot.gov/innovation/everydaycounts/ .

2. Not Qualified—If a project meets any one of the following criteria, then it is not qualified for funding:

NOTICE OF CORRECTION (CONTINUED)
OPPORTUNITY NUMBER FHWA-2016-21063

- i. Project does not meet one or more of the eligibility requirements;
- ii. Application fails to address one or more of the application requirements;
- iii. Applicant received AID Demonstration funding within the current fiscal year; or
- iv. Selected innovation has been identified as graduated to widespread use as listed on FHWA's website and does not meet the eligibility requirements above.

F. Federal Award
Administration
Information

Each applicant selected for AID Demonstration funding shall work with FHWA on the development and implementation of a plan to collect information and report on the project's performance with respect to the relevant outcomes that are expected to be achieved through the innovation in the project. Each recipient or subrecipient of AID Demonstration funding shall report on specified performance indicators for its project. Performance indicators will be identified for each project, and will consider the individual project's stated goals as well as resource constraints of the recipient or subrecipient. Performance indicators may include formal goals or targets, will include baseline measures as well as post-project outputs, and will inform the AID Demonstration in working toward best practices, programmatic performance measures, and future decisionmaking guidelines. The recipient or subrecipient shall submit a final report to FHWA within 6 months of project completion which documents the process, benefits, and lessons learned including development and/or refinement of guidance, specifications, or other tools and methods to support rapid adoption of the innovation(s) as standard practice.

For further information concerning this final notice please contact: Mr. Thomas Harman, Director, Federal Highway Administration, Office of Innovative Program Delivery, Center for Accelerating Innovation, 1200 New Jersey Avenue SE., E63-312, Washington, DC 20590, Telephone: (202) 366-6377, or email: tom.harman@dot.gov.

G. Federal Awarding
Agency Contacts

For legal questions, please contact: Ms. Seetha Srinivasan, Attorney Advisor, Federal Highway Administration, Office of the Chief Counsel, 1200 New Jersey Avenue SE., E82-109, Washington, DC 20590, Telephone: (202) 366-4099, or email: seetha.srinivasan@dot.gov.

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In addition, FHWA may post answers to questions and requests for clarifications on FHWA's Web site at: <http://www.fhwa.dot.gov/accelerating/grants>. Applicants and subrecipients are encouraged to contact FHWA directly to receive information about AID Demonstration.

Authority:

Section 52003 of Pub. L. 112-141; Section 6003 of Pub. L. 114-94; 23 U.S.C. 503.

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Issued:

Nicole R. Nason

Administrator

Federal Highway Administration