

Saving Lives with Connectivity: Accelerating Vehicle to Everything (V2X) Deployment Grant Opportunity

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U.S. Department of Transportation



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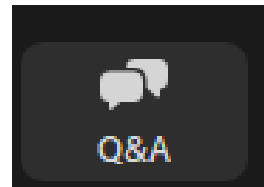
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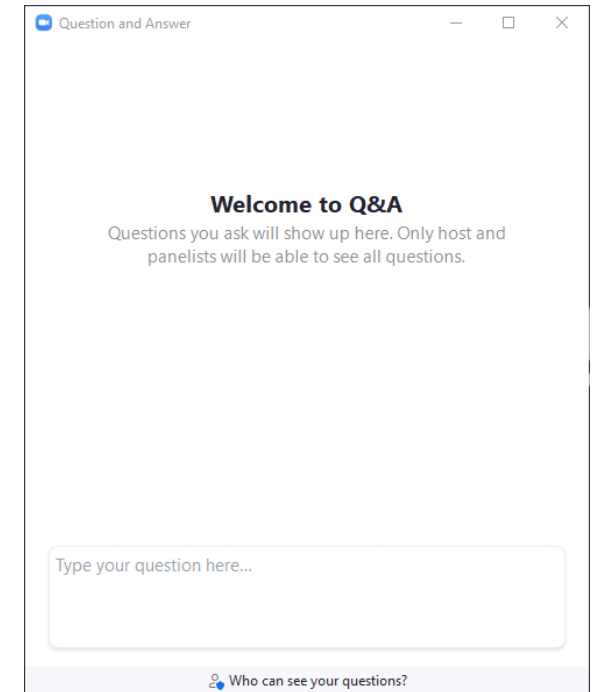


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- The **Q&A pod** at the bottom of your screen should be used.
- Questions will be addressed after the last presentation, as time permits.



Source: FHWA.



Source: FHWA.

Type your question and press Enter to send.



Key Links

Saving Lives with Connectivity: Accelerating V2X Deployment
Notice of Funding Opportunity (Grants.gov):

<https://www.grants.gov/search-results-detail/350731>

V2X Communications for Deployment:

https://www.its.dot.gov/research_areas/emerging_tech/htm/Next_landing.htm



Poll Question

The poll will pop up on your screen.



Agenda

- Saving Lives with Connectivity: Accelerating V2X Deployment Program
- Application Process
- Application Review Process
- Awards and Reporting
- Questions



Saving Lives with Connectivity: Accelerating Vehicle to Everything (V2X) Deployment Program



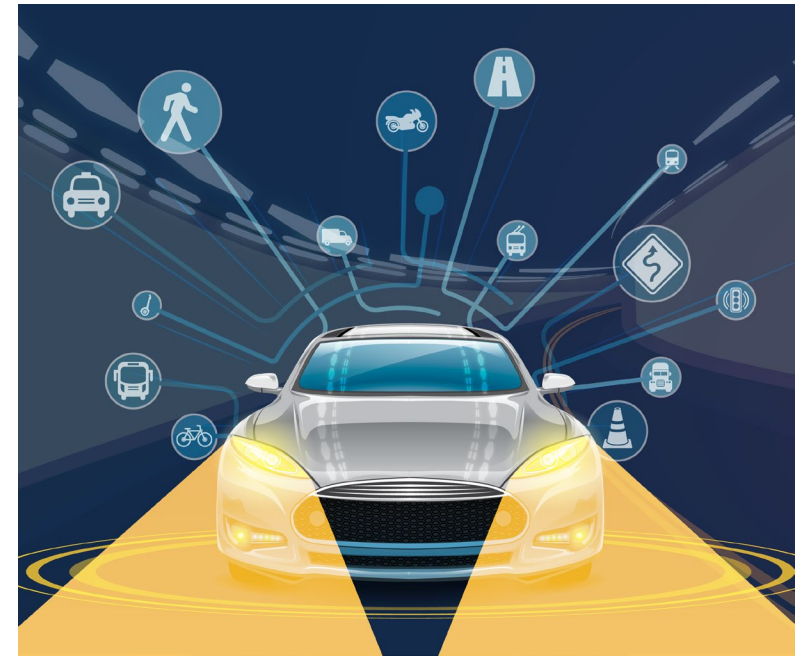
Departmental Goals

- Safety
- Equity
- Climate Change and Sustainability
- Workforce Development, Job Quality, and Wealth Creation



New Notice of Funding Opportunity

- On October 26, 2023, USDOT issued a Notice of Funding Opportunity to award grants to entities to deploy **vehicle to everything (V2X) technology**.
- Grantees will demonstrate and act as key enablers of the vision of ***interoperable connectivity***.



Source: ITS JPO.



Program Funding

- Funding is authorized under section 11101(c)(1)(D) of the Bipartisan Infrastructure Law (BIL), enacted as the Infrastructure Investment and Jobs Act, Pub. L. 117-58 (November 15, 2021).
- Total available funding: \$40 million:
 - Potential for multiple awards.
- Federal share not to exceed 80% of project cost [23 U.S.C. 516(c)].



Eligibility Information

Eligible applicants include:

- Non-Federal domestic public sector organizations.
- Domestic academic institutions.
- Private sector and other entities incorporated in the United States.



Program Vision

To accelerate the adoption and deployment of interoperable connectivity nationwide to:

- Improve system safety (particularly for vulnerable road users).
- Enhance traveler mobility.
- Improve the efficiency of the movement of goods.
- Address disparities in transportation equity.
- Reduce environmental impacts.
- Demonstrate a significant return on (public and private) investment.



Program Goals

Deploy, operate, and showcase integrated, advanced interoperable deployments.

02

Inform and educate the ITS community and the general public regarding these impacts.

03

Support the development, evaluation, and documentation of a suitable reference implementation.



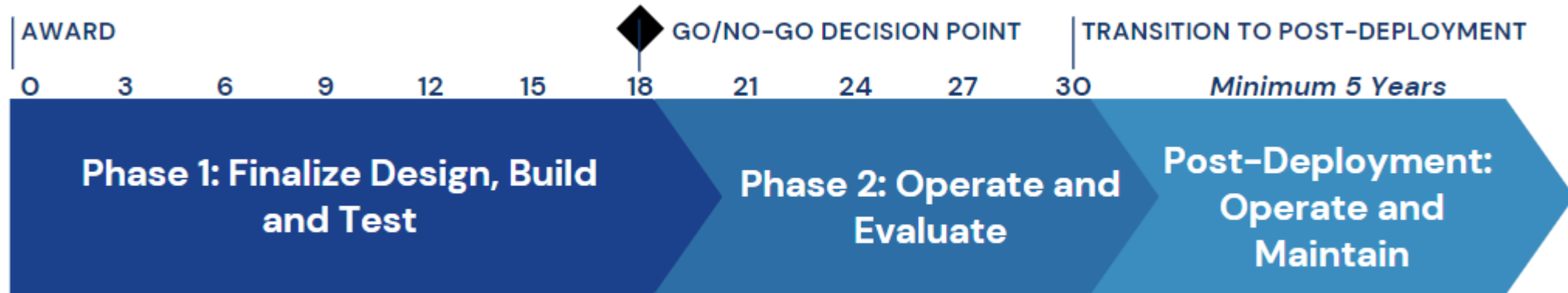
Deployment Site Features and Attributes

- ✓ Addresses critical safety and other needs within the transportation system, at a sufficient scale to result in significant and measurable improvements in system performance.
- ✓ Utilizes the 5.9 GHz ITS dedicated spectrum.
- ✓ Demonstrates standards-enabled interoperability.
- ✓ Implements an interoperable security credential management.



Structure and Phasing

Anticipated 30-Month Period of Performance



Source: ITS JPO.



Phase 1: Finalize Design, Build, and Test

Task 1: Program Management

Task 2: System Planning and Design

Task 3: System Build

Task 4: System Test and Operational Readiness
Demonstration

Task 5: Stakeholder Outreach and Communications



Phase 1: Outcomes

- An installed and tested system that meets the requirements of the system design specifications.
- Demonstrated intrasite interoperability among wirelessly connected devices within the site and the surrounding transportation systems.



Phase 2: Operate and Evaluate

Task 1: Program Management

Task 2: System Operations and Maintenance

Task 3: Intersite Interoperability Demonstration

Task 4: System Performance Measurement and Evaluation

Task 5: Stakeholder Outreach and Communication

Task 6: Postdeployment Transition Planning



Phase 2: Outcomes

- Demonstrated joint intersite interoperability among wirelessly connected devices across all sites and the surrounding transportation systems.
- Documented system operational performance and deployment impacts.
- Documented reference implementation to spur broader, at-scale national deployment of interoperable connectivity.



Degree of Federal Involvement

The DOT anticipates substantial Federal involvement collaborating with the recipient, including:

- Technical assistance and guidance to the recipient.
- Close monitoring of performance.
- Involvement in technical decisions.
- Participation in status meetings and committee meetings.
- Review and comment on draft and final documents as appropriate.



Application Process



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Application Process (1 of 2)

- Applications are due January 17, 2024, and must be submitted through Grants.gov at www.grants.gov.
- To submit, applicants must:
 - Register with the System for Award Management (SAM) at www.sam.gov
 - Obtain a SAM.gov Unique Entity Identifier (UEI)
 - Create a Grants.gov username and password
 - E-business point of contact (POC) at the applicant's organization must respond to the registration email from Grants.gov and log in to authorize the POC as an Authorized Organization Representative (AOR)
- **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.**



Application Process (2 of 2)

- Applicants may obtain application forms at Grants.gov under the Notice of Funding Opportunity (NOFO) number.
- Applicants must complete and submit all forms included in the application package for this NOFO as contained at www.grants.gov.



Volume 1 Technical



Outline

- Cover Page
- Deployment Abstract
- Deployment Concept Summary
- Operational Readiness Summary
- Technical and Management Approach
- Summary of Relevant Team Experience and Staffing Approach
- Past Performance
- Appendix A: Résumés
- Appendix B: Letters of Intent to Participate



Deployment Abstract

- Summarize the specific problem to be addressed by implementing interoperable connectivity solutions.
- Summarize the deployment concept and how it aligns with the Site Deployment Requirements and Goals, Departmental Goals, and Initiative Goals.
- Summarize total two-phase projected Federal funding and proposed total cost share.



Deployment Concept Summary

- Describe the proposed deployment site, including a site map and description of any relevant existing technology and foundational infrastructure.
- Describe the project scope, including proposed number of vehicles and devices and the set of applications proposed.
- Describe proposed performance measures and methods for data collection.
- Illustrate how the proposed concept can synergistically combine to create measurable impact.



Operational Readiness Summary

- Describe technical readiness.
- Describe documentation readiness.
- Describe baseline performance measure and impact assessment readiness.
- Describe effective utilization of the ITS dedicated portion of the 5.9 GHz spectrum.
- Describe comprehensive systems engineering approach.
- Describe institutional readiness.



Technical and Management Approach

- Include a detailed description and scope of work including specific milestones.
- Provide a technical and management plan describing in detail how the applicant proposes to carry out the work.
- Include detailed information about the project schedule that identifies all major project milestones and, if applicable, requires submittals.



Summary of Relevant Team Experience and Staffing Approach

- Include detailed information about the proposed applicant team.
- Provide a staffing plan to perform the work, including:
 - An organizational chart identifying proposed staff members and their roles.
 - Level of effort for and allocation of time for staff members assigned to this effort.



Past Performance

- Provide a description of relevant completed and ongoing projects that demonstrate organizational and staff experience, including:
 - Project title
 - Description of project work
 - Project value
 - Project dates
 - Project sponsor and customer point of contact
 - Role of applicant in the project
 - Explanation of why or how the project is considered relevant or similar to the project being proposed



Appendices

- **Résumés**—Provide résumés of key personnel and staff with significant roles, from both the prime applicant and team members to subawardees as necessary.
- **Letter of Intent to Participate**—Provide a letter of intent or commitment from each proposed subrecipient or subcontractor.



Volume 2 Budget



Outline

- Application Standard Forms (SFs).
- Summary Budget Narrative.
- Cost-Share Information.
- Organizational Information.



Standard Forms (1 of 4)

- Application must include the SF-424 (Application for Federal Assistance), SF-424A (Budget Information for Non-Construction Programs), SF-LLL (Disclosure of Lobbying Activities), and the Grants.gov Lobbying Form.
- SFs are available at <https://www.grants.gov/web/grants/forms/sf-424-family.html>.



Standard Forms (2 of 4)

- On the SF-424, the information in block 8a (Applicant’s “Legal Name”) must be the same as the information entered for registration in <https://www.sam.gov/> and for the Applicant’s SAM UEI. The title for an applicant’s workspace on <https://www.grants.gov> is limited to 240 characters and may be different than the SAM UEI.



Standard Forms (3 of 4)

In addition to the standard forms, a separate detailed budget plan for each year must be provided. The summary budget information should include:

- Planned project costs and how costs are connected to the project scope.
- Description of how funds will be spent.
- Summary budget tables.



Cost-Share Information

- Evidence that funding has been identified that will cover the 20% non-Federal cost share.
- Letters of commitment from organizations providing a portion of the cost share.



Organizational Information

Provide the following information in PDF format:

- Exceptions to the anticipated award terms and conditions.
- Preexisting intellectual property.
- SAM.gov UEI number.
- A-133 Single Audit.
- Conflicts of Interest.
- Audit of Applicant's financial systems.
- Terminated Contracts.
- Reporting Subaward and Executive Compensation.
- Violations of Federal Criminal Law.



Application Review Process



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Application Review: Technical Merit

- Alignment with Deployment Site Features and Attributes.
- Alignment with Department and Initiative Goals.
- Operational Readiness for Phase 1 and Phase 2.
- Technical and Management Approach.
- Relevant Team Experience.
- Staffing Approach and Team Depth and Organization.



Application Review: Cost Criteria

- The cost information will be analyzed to assess that the proposed costs are realistic, reasonable, conform to applicable cost principles, and are commensurate with the applicant's technical application.
- Applicants must provide the required matching funds (80% Federal and 20% non-Federal) and supporting detail for these funds, including the applicant's activities to maximize the non-Federal share of the project funding.



Application Review: Selection Process

- USDOT 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.
 - Evaluations in the technical evaluation will place projects into adjectival rating categories, not numerical scores.
- The FHWA Administrator will select the final 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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Awards

- USDOT anticipates making project award decisions in the Spring of 2024.
- Each recipient must submit the *Federal Financial Report* (SF-425) on the financial condition of the project and its progress on a quarterly basis.
- Each recipient will participate in and submit a report for an Annual Budget Review and Program Plan.



Award Administration

Two options for award administration:

- Allocation through a State DOT to a Local Public Agency (LPA).
- Direct award from FHWA.





Questions



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Questions

Questions may be forwarded to:

Rob Miller

Rob.Miller@dot.gov

Agreement Specialist

Office of Acquisition and Grants Management

Federal Highway Administration

Questions and answers will be posted to:

www.grants.gov



Thank you for joining today's webinar!

