

# 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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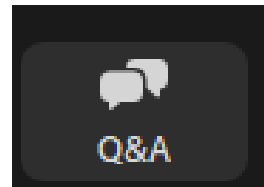
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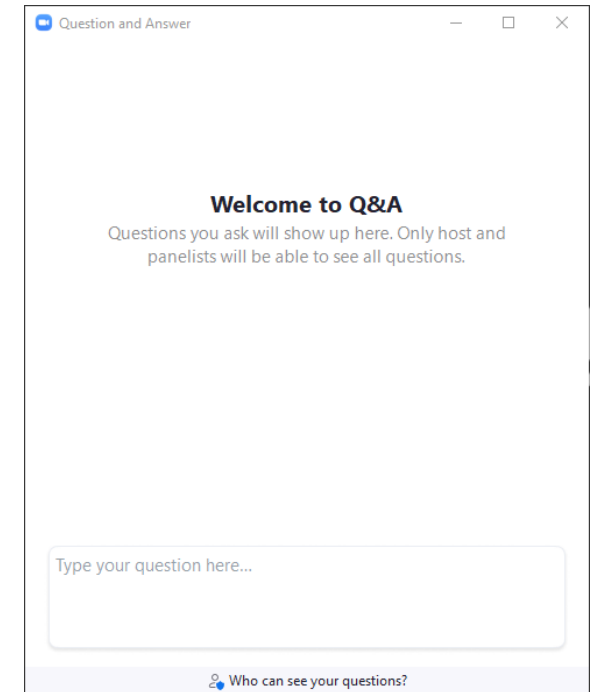


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- The **Q&A pod** at the bottom of your screen should be used.
- Questions will be addressed after the last presentation, as time permits.



Source: FHWA.



Source: FHWA.

Type your question and press Enter to send.



# Key Links

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



# Poll Question

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The poll will pop up on your screen.



# Agenda

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- 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

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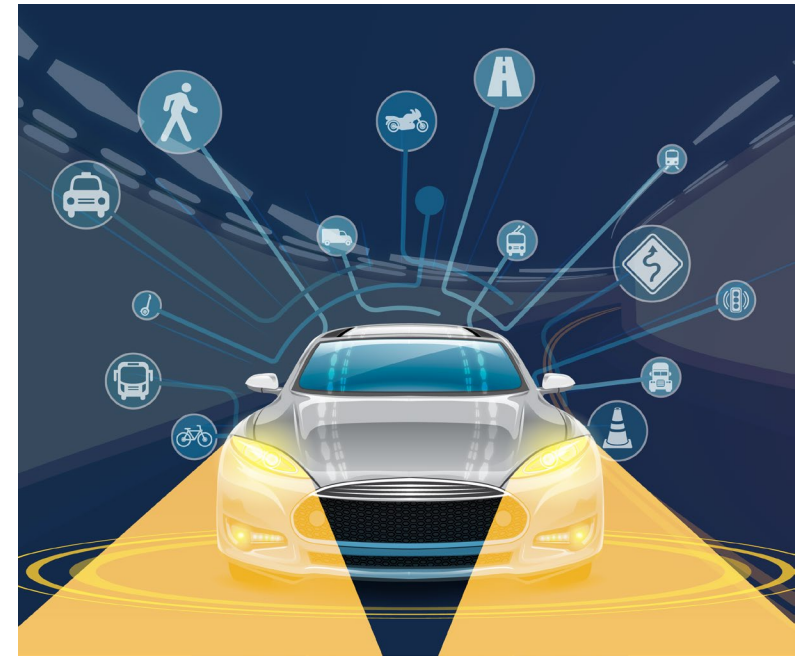
- Safety
- Equity
- Climate Change and Sustainability
- Workforce Development, Job Quality, and Wealth Creation



# New Notice of Funding Opportunity

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- 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

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- 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

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## **Eligible applicants include:**

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



# Program Vision

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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

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**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

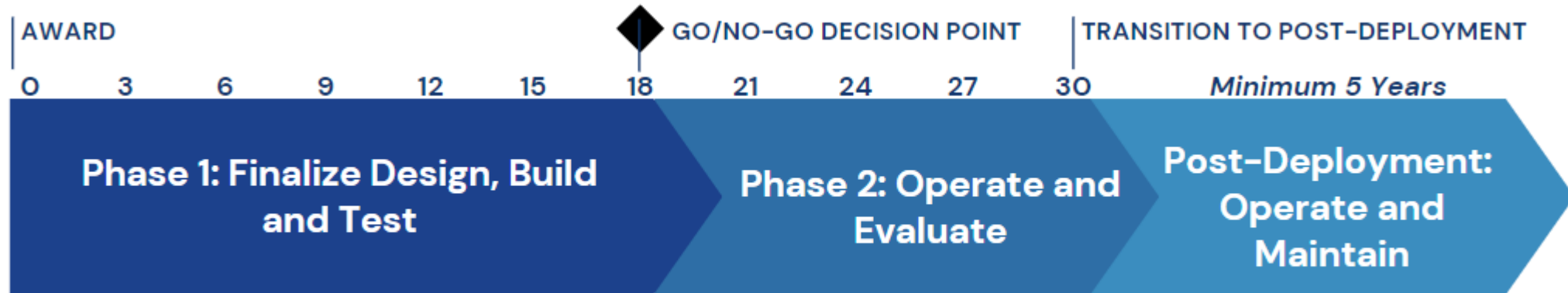
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- ✓ Addresses critical safety and other needs within the transportation system, at a sufficient scale to result in significant and measurable improvements in system performance.
- ✓ Utilizes the 5.9 GHz ITS dedicated spectrum.
- ✓ Demonstrates standards-enabled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

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**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

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- 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

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**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

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- 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

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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)

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- Applications are due January 17, 2024, and must be submitted through Grants.gov at [www.grants.gov](http://www.grants.gov).
- To submit, applicants must:
  - Register with the System for Award Management (SAM) at [www.sam.gov](http://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)

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- 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](http://www.grants.gov).



# Volume 1 Technical

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# Outline

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- **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

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# Outline

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



# Standard Forms (1 of 4)

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- 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)

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- 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)

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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

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- 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

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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

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- 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

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- 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

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- 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

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- 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

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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

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Questions may be forwarded to:

**Rob Miller**

[Rob.Miller@dot.gov](mailto: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](http://www.grants.gov)



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

