



FACTORS IN FUNDING, COSTING, AND PROCURING V2X DEPLOYMENTS

ITS AMERICA V2X WEBINAR

June 11, 2025



RED LIGHT RUNNING

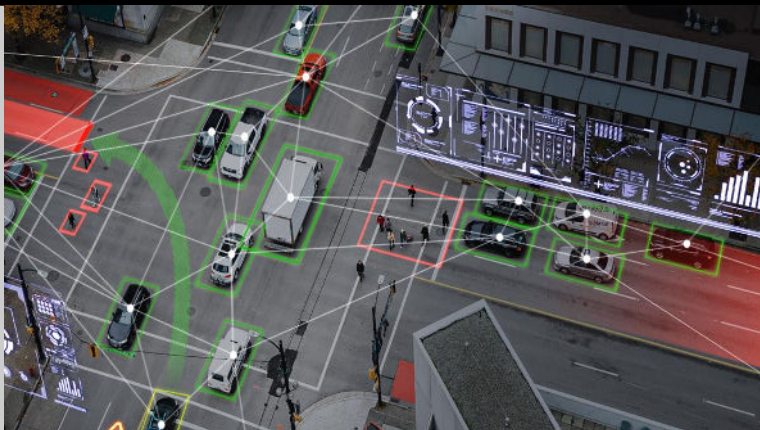
23% confessed to running a red light, while 21% reported engaging in aggressive driving behaviors, such as tailgating or frequent lane changes.

(Source: <https://driving-tests.org/driving-statistics/>)

Current Guidance from AAA:

- Use good judgment.
- Tap the brake.
- Drive defensively.
- Prepare to stop.

SOLUTION: V2X



V2X Pooled Fund Study Overview and Projects

Connected Vehicle Pooled Fund Study



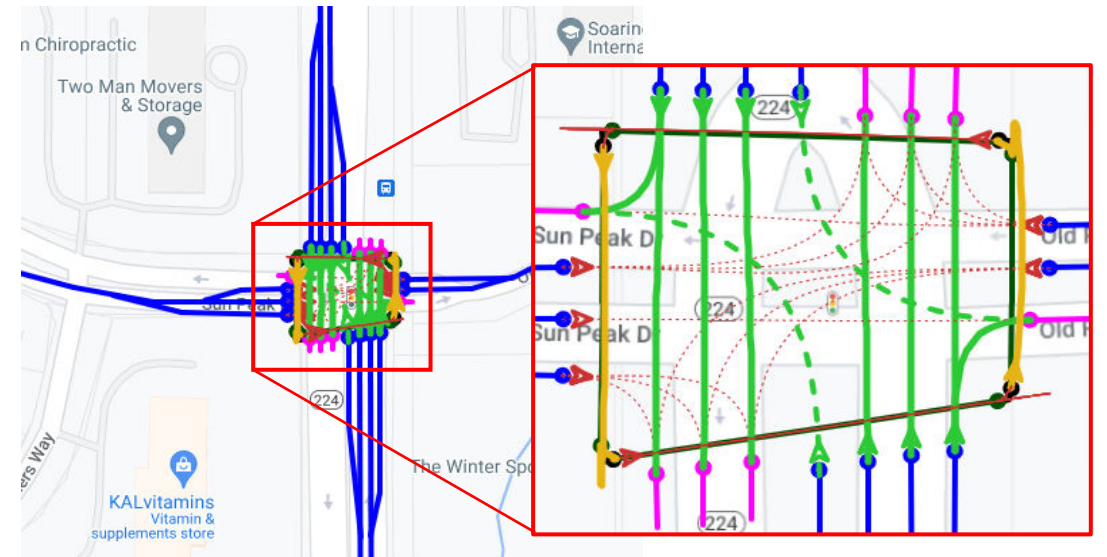
Objectives

- To provide technology transfer support to state, local, and international transportation agencies as well as vehicle OEMs in preparing for the deployment of connected vehicle infrastructure.
- To provide input to the AASHTO, SAE, ITE, and ITS America, various working groups and cohorts organized around V2X, USDOT V2X Program, and other national organizations.
- To establish a multi-phase program to facilitate research, field demonstration, evaluation, and technology transfer of connected vehicle infrastructure, vehicles, and applications.
- To aid transportation agencies and OEMs in justifying and promoting the large-scale use of connected vehicle environment and applications through modeling, development, engineering, and planning activities.

Model CV Procurement Documentation

Scope Includes:

- Developing V2X Procurement Guide
- Participating in V2X Standards Activities
- Conducting Stakeholder Interviews with IOO, RSU, OBU, SCMS, Controller Suppliers, and Academia
- Outreach and Stakeholder Engagement



Kicked off late 2024 and will wrap up later this year

Challenges

- Current V2X system hardware and software do not meet **V2X integration and interoperability requirements**
- Agencies and operators might **presume interoperability**, but this assumption can be incorrect
- Post-deployment updates to resolve issues are **costly and time-consuming**
- Limited incentives and enthusiasm among V2X equipment manufacturers to **prioritize progress toward interoperability**



Project Objective: Procurement Documentation

Equip agencies and operators with reliable, future-ready resources:

- Simplify the procurement of necessary V2X infrastructure components and potentially related services (e.g., integration, testing)
- Make progress toward interoperability among deployments
- Implement/deploy V2X technology in a consistent manner

Provide clear understanding of what is needed from equipment vendors:

- Drive innovation from vendors while remaining practical and achievable
- Do not discourage developers and vendors from engaging or responding to procurement efforts



Qualities of a Good Procurement Document

Well-Organized and User-Friendly: Ensures clarity and ease of navigation for all stakeholders.

Independently Extractable Requirements: Allows specific requirements to be easily identified and referenced.

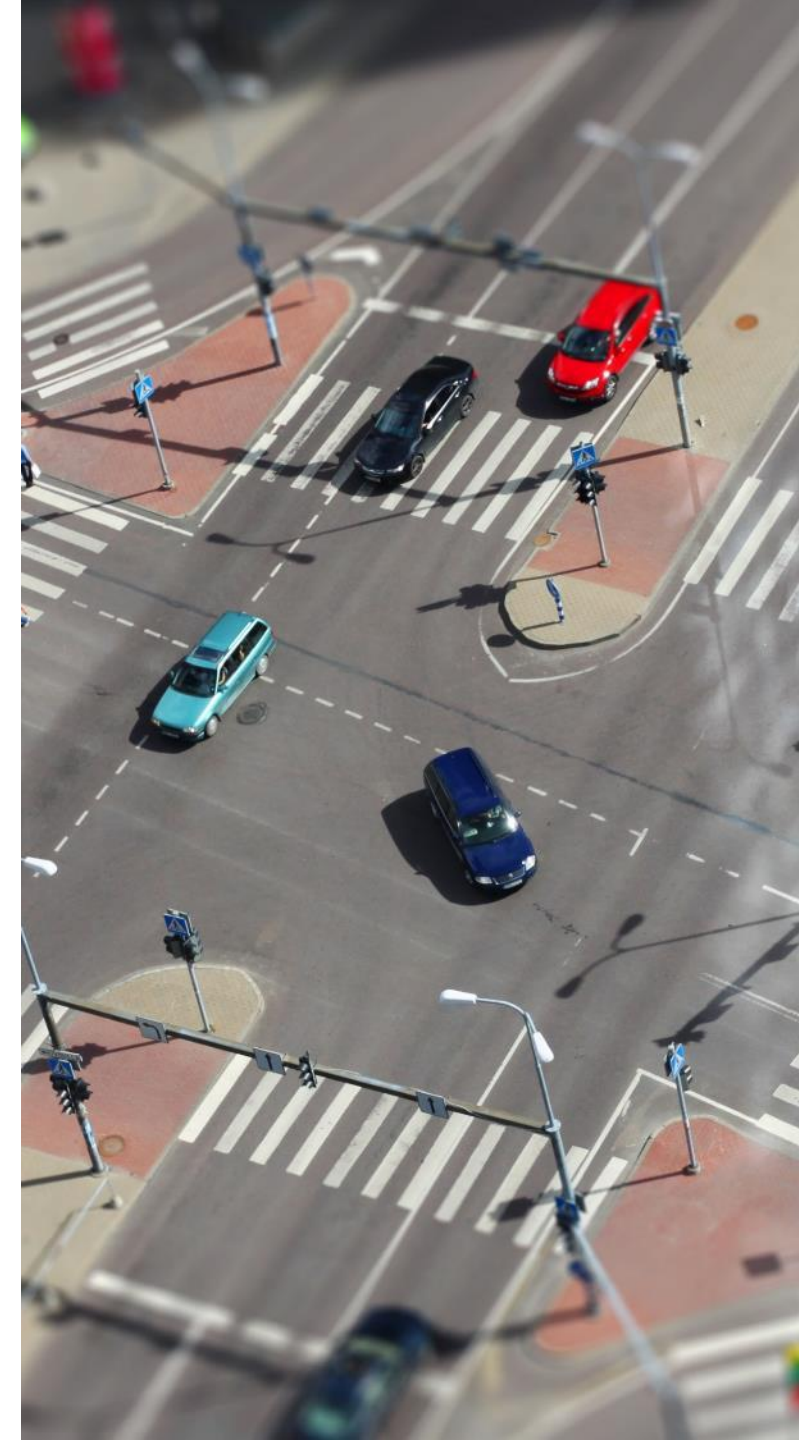
Comprehensive Procurement Package: Serves as a complete resource covering all aspects of the procurement process.

Lifecycle-Based Requirements: Considers the full project lifecycle, including planning, design, installation, testing, and validation, to establish robust and holistic procurement criteria.



Requirements Examples

- RSUs shall be compliant with **CTI 4001** and include a power supply
- RSUs shall be **OmniAir certified**
- Identify PSIDs and SSPs for **SCMS procurement**
- List of OBU **applications** to be supported
- SAE J2735 SPaT messages shall be compliant with **CTI 4501**, to the extent practical



Project Outreach – Coming Soon

- Stakeholder interviews underway to gather input as guidance is developed
- Outreach materials will be shared to promote the project outputs and facilitate their adoption and use
 - Brochures/fact sheets with FAQs and more
- Additional presentations and outreach to ITS community, both state and local, starting Q4 2025



V2X Accelerator Project Activities are Underway





U.S. Department of Transportation
Federal Highway Administration
Intelligent Transportation Systems Joint Program Office



V2X
ACCELERATOR



MARICOPA
COUNTY
TRANSPORTATION



CVAZ
CONNECTED VEHICLE
ACCELERATION ZONE



Greater Phoenix Area, Arizona
Photo Source: Getty Images





ITS America Workforce Development Community of Practice



Objectives:

- Collaboratively identify innovative strategies that **enhance the skills, knowledge, and readiness of the ITS workforce.**
- **Focus on cross-cutting issue areas** and analyze the impact of technologies on the workforce and state of readiness.
- Promote workforce development by fostering skills and opportunities to ensure transportation workers can address **evolving transportation challenges.**



Thank you!



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