Consensus Safety Measurement Methodologies for ADS-Equipped Vehicles

June 25-26, 2019















CAT Coalition Update

Cooperative Automated Transportation (CAT) Coalition A joint effort by AASHTO, ITE and ITSA in partnership and Cooperative Agreement with USDOT





CAT Coalition Evolution....2013 - Present

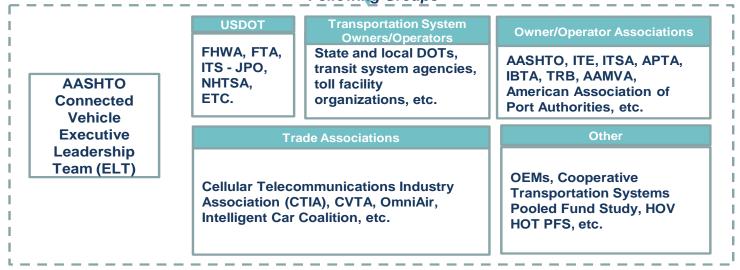
V2I-DC Executive Committee

USDOT (FHWA, OSTP - ITS JPO, NHTSA, FTA, etc.) & core stakeholders

V2I-DC Chair

(Open Discussion – possible chair from AASHTO subcommittee or core group membership)

Vehicle-to-Infrastructure Deployment Coalition will be Supported by the Technical Teams drawn from the Following Groups



Connected Vehicle Deployment Coalition key functions

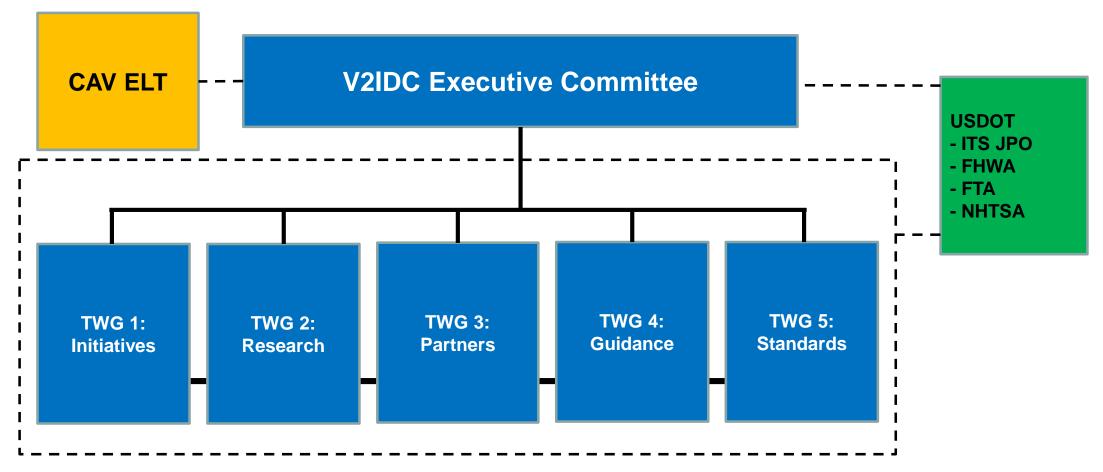
- 1. Collaborate with FHWA on 2015 connected vehicle deployment guidance
- 2. Promote streamlining among USDOT, owner/operator associations, AASTHO, and trade & professional associations
- 3. Support the development of second phase Connected Vehicle Footprint Analysis
- 4. V2I-DC Chair will also serve on the CV ELT and provide overall technical support to the Connected Vehicle Executive Leadership Team
- 5. The Vehicle-to-Infrastructure Deployment Coalition Chair and Connected Vehicle Executive Leadership Team Chair to provide executive input to other Federal, State, and local transportation groups associated with V2I technology deployment.





CAT Coalition Evolution....2013 - Present

V2I DC Structure





What is Cooperative Automated Transportation (CAT)?

- It is cooperative it requires reliable, two way communications and two-way information exchange – among all modes, users, managers, and operators
- It is automated it enables all modes to cooperatively enhance the safety and mobility of the system
- It is transportation in all modes, systems, and uses.







The CAT Coalition Today – 2019...

Co-Chairs
Roger Millar, WSDOT & Jennifer Cohan, Del DOT

USDOT / FHWA

Programmatic & Strategic Activities

Focus is on documenting needs and best practices for programmatic, strategic, and technical activities to encourage CAT deployment & operation through initiatives such as the SPaT Challenge & Connected Fleet Challenge.

Policy,
Legislative and
Regulatory
Working Group

J. Toth P. Ajebaga

aT Challenge & nallenge.

Strategic
Initiatives

GroupB. Leonard

Working

J. Averkamp

Planning, Scenarios, & Resources

Supports the CAT industry in understanding Automated Transportation planning & scenario development, available resources, and documenting resource needs

Planning /
Scenarios
Working
Group

S. Rosenberg J. Sydello Technical Resources

Working

Group

F. Saleem N. Katta

Infrastructure & Industry

Supports the CAT industry in defining the digital & physical CAT infrastructure, and establishing secure, verified connections between vehicles & this infrastructure

Infrastructure Industry Working Group

T. Larkin-Thomason, S.Gherring

Focus Areas

Description

Near-term Tactical Approach

C. Castle F. Saleem M. Shulman

IOO/OEM

Forum

Peer Exchange & Outreach Working Group (E. Seymour) – Supports all focus areas

Research Testing and Demonstration

(e.g. NCHRP 20-102, CV Pilot Sites, ATCMTD Sites, and other Federally & State led activities)

CAT Coalition Recent Activities / Accomplishments

Programmatic & Strategic Accomplishments (examples)

- Truck Platooning Policy Paper
- CAT Policy Framework Clearinghouse
- Launch of Connected Fleet Challenge

Planning Scenarios & Resources Accomplishments (examples)

- Identified gaps regarding CAT resource needs
- Developed white paper on CAT resources
- Reviewed and offered input on several (13+) resources / documents

Infrastructure & Industry Accomplishments (examples)

- Reduced Speed Zone
 Warning Application ConOps
- Testing of Software tool chain for work zone MAP creation
- Initiated Development of Clarifications on Ambiguities in V2I Communications

CAT Coalition Recent Activities / Accomplishments

Programmatic & Strategic Accomplishments (examples)

- Truck Platooning Policy Paper
- CAT Policy FrameworkClearinghouse
- SPaT Challenge Webinar #10
- Launch of Connected Fleet Challenge

Planning Scenarios & Resources Accomplishments (examples)

- Identified gaps regarding CAT resource needs
- Developed white paper on CAT resources
- Reviewed and offered input on 13 resources / documents

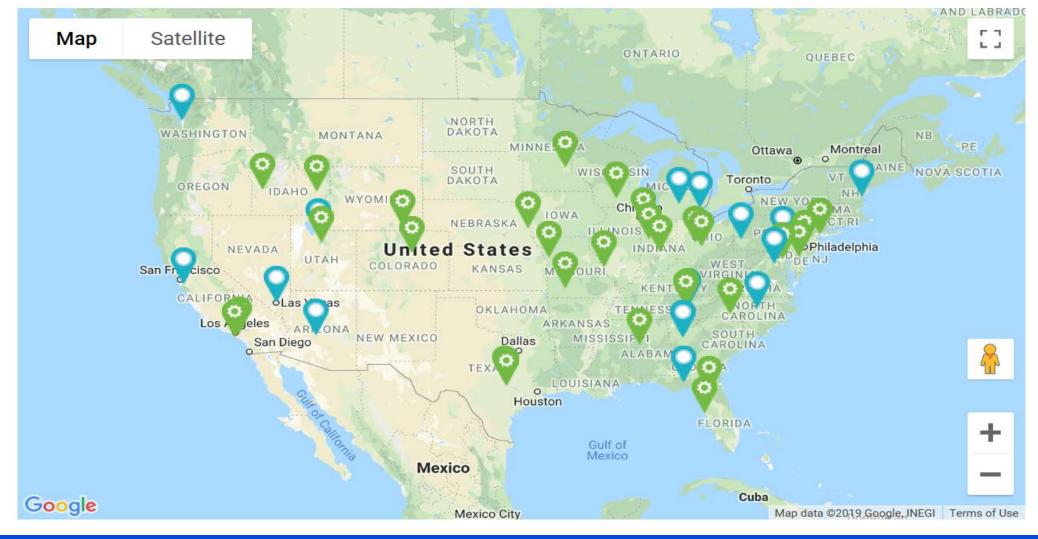
Infrastructure & Industry Accomplishments (examples)

- Reduced Speed Zone
 Warning Application ConOps
- Testing of Software tool chain for work zone MAP creation
 - Initiated Development of Clarifications on Ambiguities in V2I Communications

SPaT Challenge Locations

SPaT Deployment Underway

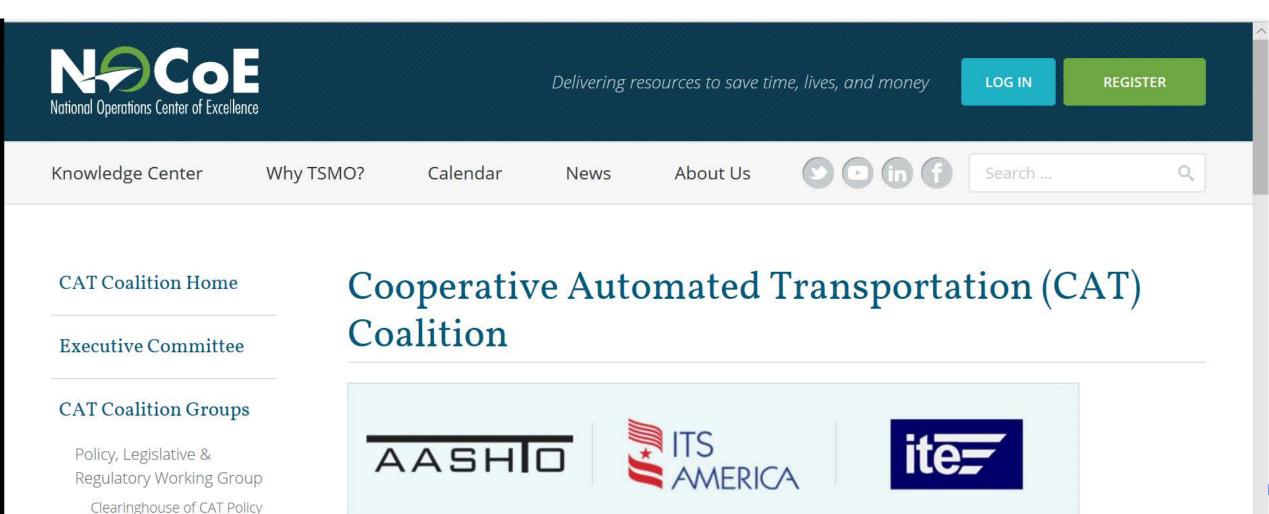
SPaT Deployment Operational







CAT Coalition Website http://www.transportationops.org/catcoalition



Frameworks and Policy

Statements

The Cooperative Automated Transportation Coalition (CAT) serves as a collaborative focal point for federal

Discussions... Q & A...

gmurthy@aashto.org