

Connected and Autonomous Vehicles – Moving Forward along the East Coast

June 13, 2018



I-95 CORRIDOR
COALITION

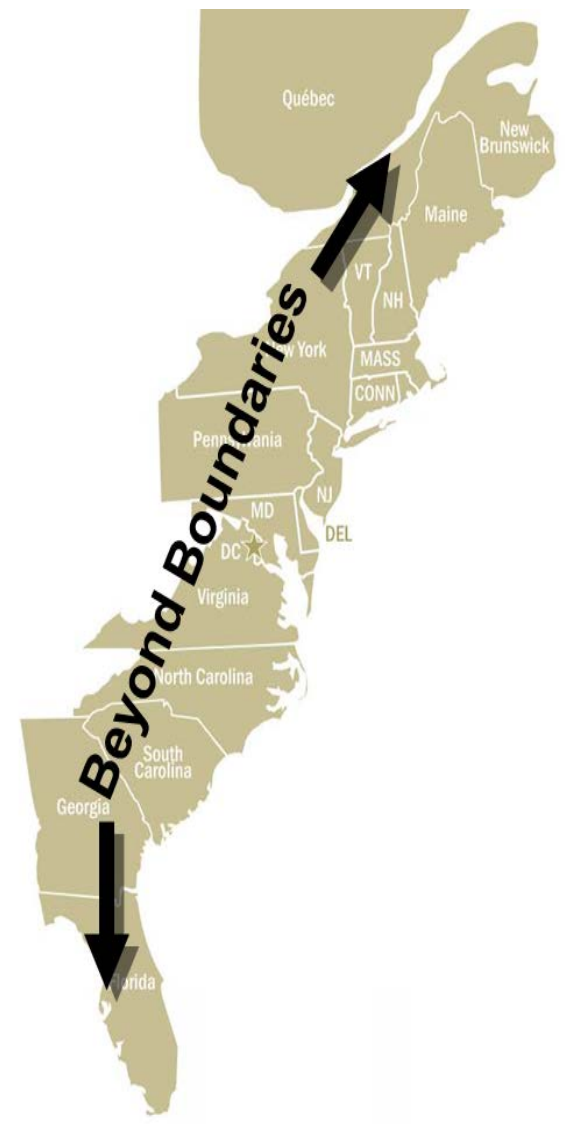
What is the I-95 Corridor Coalition

- **Multi-Jurisdictional**
 - 16 States and the District of Columbia
 - *Associate members include 2 Canadian Provinces (Quebec, New Brunswick)*
- **Multi-Modal**
 - All Modes – Rail, Marine, Air, Highway – with a focus on passenger travel and freight movement
- **Multi-Disciplinary**
 - 100+ Transportation Agencies (federal, state, MPO, local), Toll Authorities, DMV's, Port Authorities, Transit Agencies, Railroads, Trucking, Public Safety/Law Enforcement

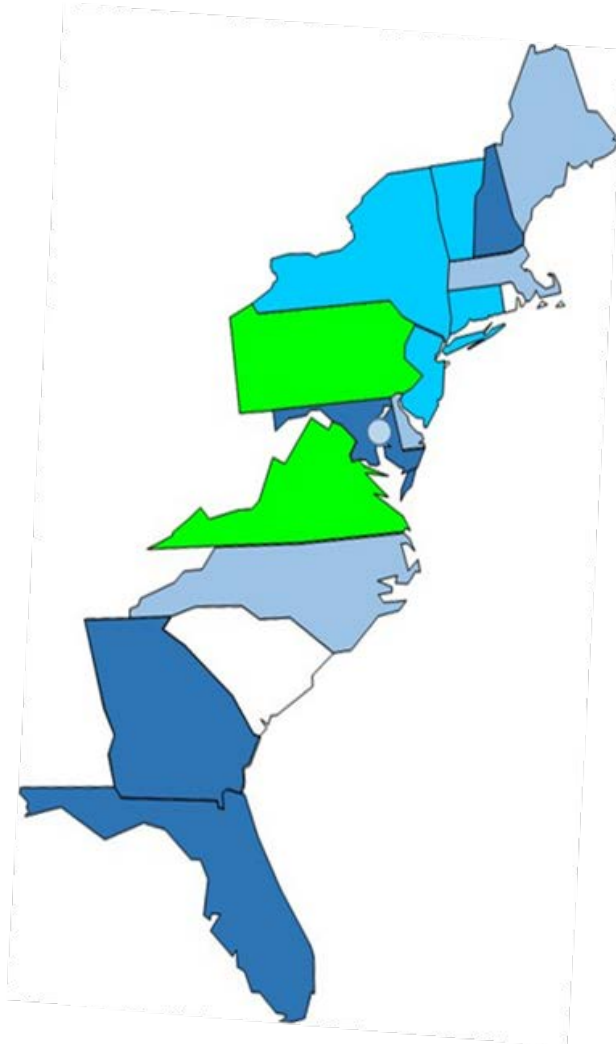






Why Need for Dialogue on CAV

- **I-95 Corridor has:**
 - 21% of Nation’s Road Miles
 - 35% of Nation’s Vehicle Mile Traveled
 - High Volume of trips daily that cross state/regional boundaries
 - 565 million+ Passenger and Freight Trips > 100 miles annually
 - 5.3 billion tons of freight moves through corridor annually
- **Unique Characteristics of Corridor**
 - Close geographic proximity of states
 - 10% of land mass – 37% of national population
 - Large urban areas in proximity to “mega-regions”
 - *Coalition states have rural areas to serve also*
- “Interoperability” across borders is critical

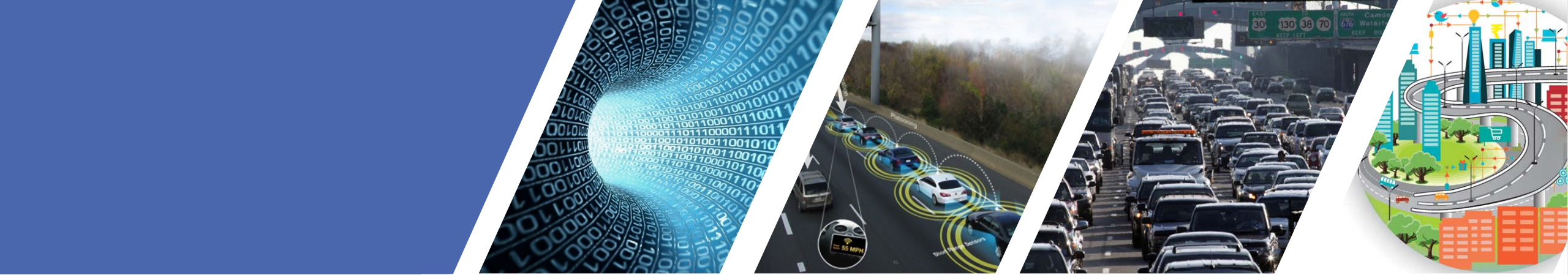


State Level of Engagement in Connected/Automated/Autonomous Vehicles In Corridor: Engaged and Growing



-  Leader
-  Early Adopter
-  Actively Engaged
-  Positively Engaged

- Coalition States were surveyed in December, 2018: “How engaged are you in Connected and Automated Vehicle Activities”?



Connected and Autonomous Vehicles Workshop Summary

“What Agencies Need to Do for the Connected and Autonomous Vehicles of Tomorrow”

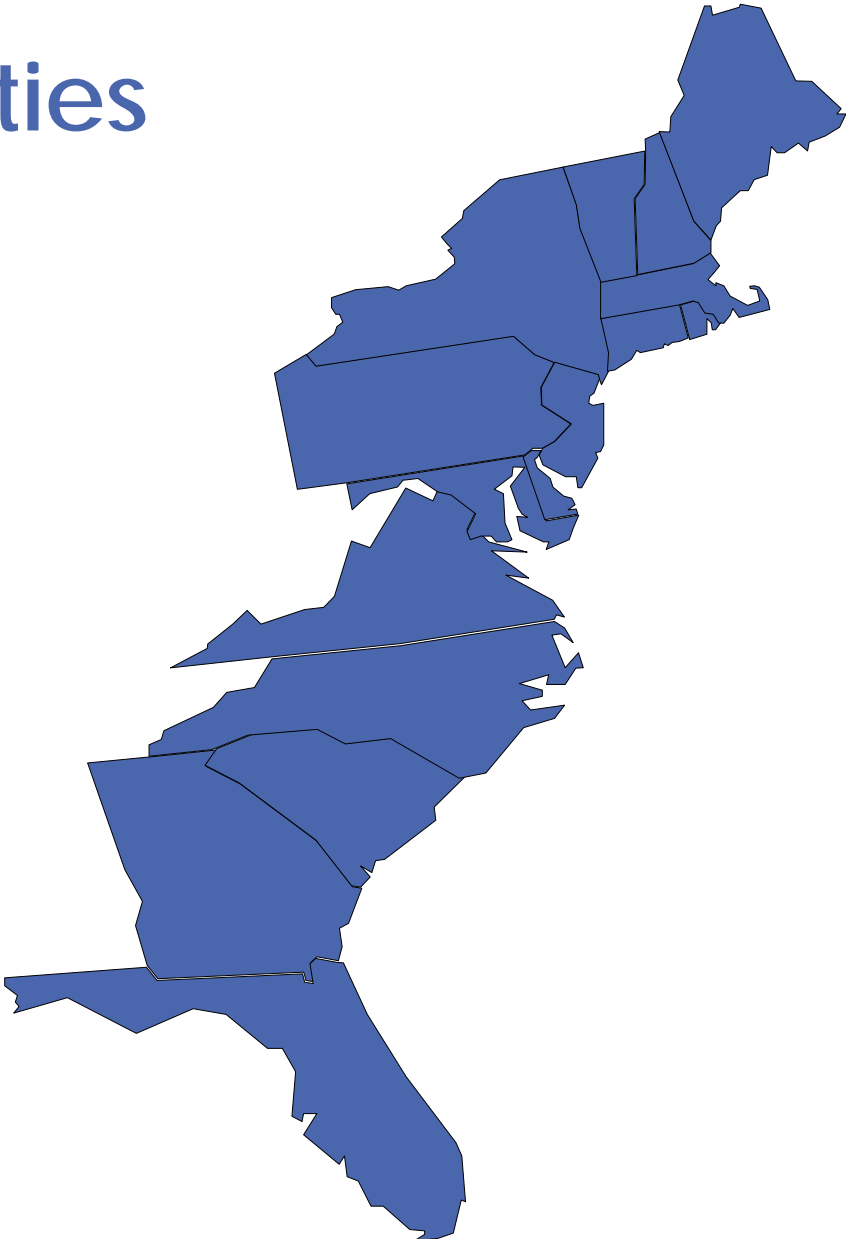
December 11-12, 2017



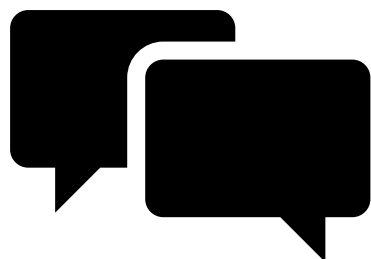
Building on Member State Activities

Over 40 practitioners attended from:

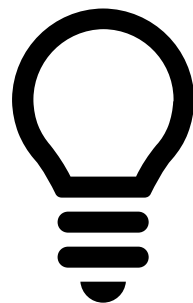
- 15 State DOTs, District of Columbia
- Several Transportation Authorities
- *FHWA Office of Operations also represented*



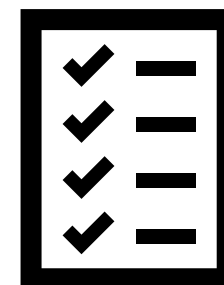
Workshop Goals



(1) Share CAV-related activities



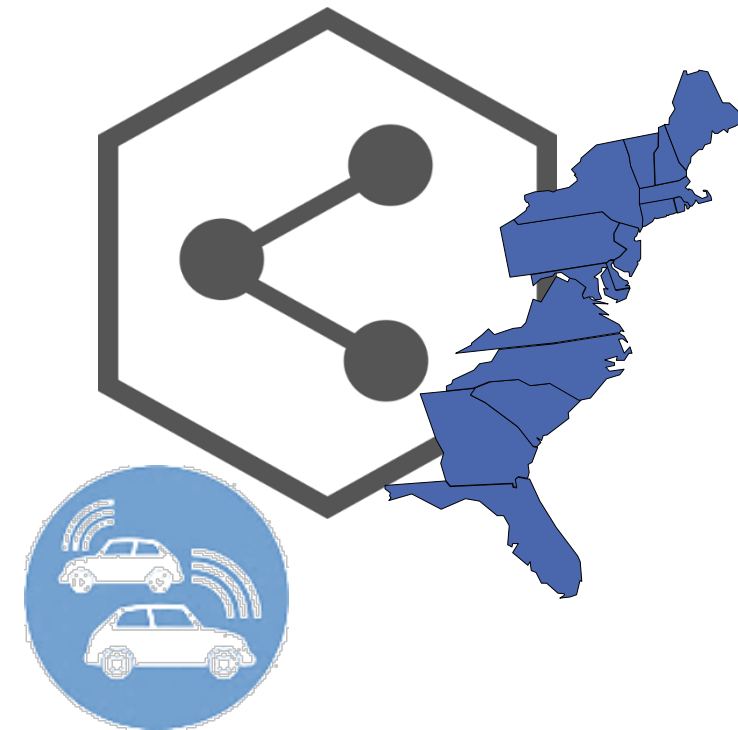
(2) Identify challenges and potential solutions



(3) Define implementation steps for member agencies and the Coalition

Agency Presentations and Breakout Sessions

- **Infrastructure and Asset Management**
- **Systems, Data, Communications/Networks**
- **Policies, Legislation and Planning**
- **Education/Outreach and Key Stakeholders**



Identify barriers and potential solutions (example)

Create central research repository that can be put into "action"

Make procurement processes less rigid/lengthy

Consider university partnerships to fill skill needs

Difficult to keep up with rapidly changing technology

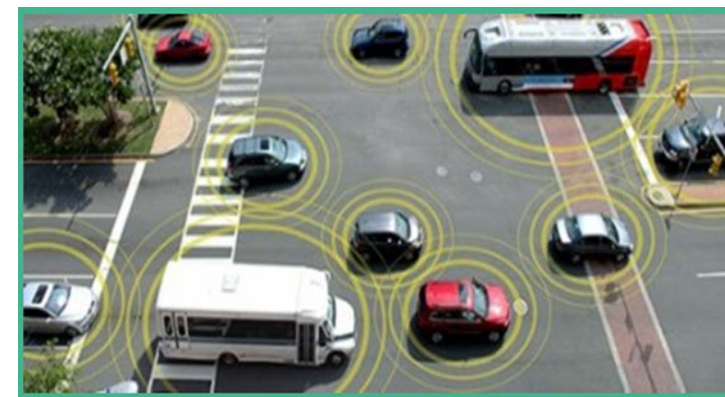
Consider using "expression of interest" like MDOT

Start small, stay nimble

Hold webinars to highlight progress

Implementation Steps

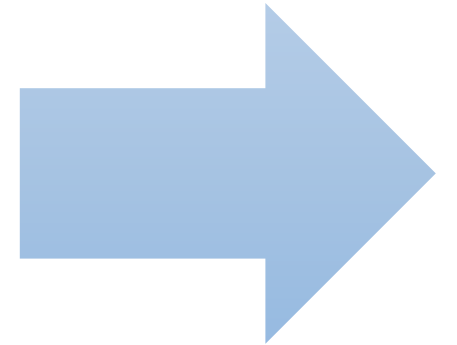
- **Infrastructure and Asset Management:**
 - Signage and Striping, Signaling, Communication and Management, Funding, Multi-modal inclusion
- **System, Data, Communications/Networks**
 - Infrastructure, Data Exchange, Data Management/Validation
- **Education/Outreach and Key Stakeholders**
 - Public Outreach, Partnerships
- **Policies, Legislation and Planning**
 - Strategic and Long Range Planning



“The Way Forward”

For member agencies

- Identify a leader
- Create a strategic vision focused on the “why”: safety, congestion relief, emergency response, economic development
- Start a multi-disciplinary stakeholder group with members from inside and outside agency
- Engage in testing and pilot projects (SPaT)



“The Way Forward”: Region/Corridor

- Generate educational and outreach materials/toolkits to maintain consistent message for full corridor connectivity.
- Bring diverse stakeholders together across region: including freight, law enforcement...
- Explore rural highway examples
- Investigate what is happening at ports
- Explore multi-state demo (e.g. truck platooning)
- Identify potential projects *even if funding not available*



Coalition CAV Final Report Available at: www.i95coalition.org



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