Connected and Autonomous Vehicles - Moving Forward along the East Coast

June 13, 2018
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
• **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

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

- Leader
- Early Adopter
- Actively Engaged
- Positively Engaged
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
- Consider using “expression of interest” like MDOT
- Hold webinars to highlight progress
- Start small, stay nimble

**Difficult to keep up with rapidly changing technology**
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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