Autonomous Vehicles Working Group

May 3, 2018
WELCOME AND INTRODUCTIONS
Agenda

- Updates on AV Testing Program
- Regional Testing Initiative
  - Update from Metropolitan Area Planning Council on Regional MOU
  - Update from MassDOT on Draft Application
- Research Initiatives
  - UMass Transportation Center
  - New England Transportation Consortium – Quick Response
- Other Initiatives
  - I-95 Corridor Coalition
  - Commission on the Future of Transportation
- Draft Report of the AV Working Group
- Next Steps
- Public Comment

8/8/2018
UPDATES FROM WORKING GROUP MEMBERS
The Baker-Polito Administration became the first state in the nation to launch a website containing data about Transportation Network Companies and the origin, destination, and other metrics captured by ridesharing services operating in the Commonwealth.

- In 2017 there were approximately 64.8 million rideshare trips started in Massachusetts.
UPDATES ON AV TESTING PROGRAM
REGIONAL TESTING INITIATIVE
MassDOT and the Metropolitan Area Planning Council are working together to develop a streamlined regional approach for AV testing.

**Goals:**
- Develop an agreement between MassDOT and participating communities which establishes regional goals and a shared vision to facilitate testing of autonomous vehicles.
- Standardize an application process which builds upon existing structure and lessons learned.
Draft Application to Operate Autonomous Test Vehicles

- Memorandum of Agreement
  - Defines the terms and conditions for testing in the Commonwealth on roads to which the public has a right of access

- Application
  - General and detailed information from an Applicant to validate requirements for prior experience, insurance, safety assessment, testing plan, vehicles and drivers, operator training, …
Crash Protocol

- Developing a process for evaluating when and how testing may be suspended within the Commonwealth in the event of a crash
- Intended to provide a process for ensuring public safety and facilitating learning among testing organizations and governing entities within the Commonwealth
RESEARCH INITIATIVES
The UMass Transportation Center is responsible for promoting transportation research, education, and training throughout the Commonwealth.

Focus: Improving Transportation Mobility and Safety with Innovative Technologies and Strategies.

Operations are supported by University funds and through contracts with state and federal agencies as well as with industry partnerships.

UMTC Research Section provides a mechanism for MassDOT to quickly and efficiently contract and execute research projects.
UMass Lowell:
Strategic Plan Information

- UMass Lowell is preparing a research report on information pertaining to strategic planning for C/AV technologies
  - A clear vision of the future state of AV and CV technologies
  - An assessment of that future on transportation in the Commonwealth
  - Identification of strategies that MassDOT could undertake to leverage AV and CV technologies
  - Consideration for address forthcoming developments in the AV and CV industries, such as the introduction of new technologies, advances in private sector CV products and services, and potential policies

- Led by Polichronis Stamatiadis (PI), Nathan Gartner (Co-PI), Yuanchang Xie (Co-PI), and Danjue Chen (Co-PI)
Project Tasks and Timeline

- Literature Review – Completed Fall 2017
- Impacts of New Technologies
  - Effects of CV/AV technologies on safety, mobility and environment
  - Investments required and savings that may be achieved
- Potential Partnerships and Strategies
  - Funding and implementation strategies
- Development of Strategic Plan Considerations – Anticipated May/June 2018
The New England Transportation Consortium (NETC) is a cooperative effort of the Departments of Transportation and the Land Grant Universities of the six New England States.

Through the Consortium, the states pool their professional, academic, and financial resources for transportation research leading to the development of improved methods for dealing with high priority problems associated with the administration, planning, design, construction, rehabilitation, reconstruction, operation and maintenance of the region's transportation system.

For more information on NETC, visit: netc.w3.uvm.edu/
New England Transportation Consortium: Quick Response (1)

- In January 2018, NETC issued Quick Response 17-1: New England Connected Automated Vehicles

- **Purpose:**
  - Identify issues related to the testing and deployment of connected and/or automated vehicles (C/AV) that extend beyond state lines, and assess how states may want to collaborate to minimize the challenges and to pursue opportunities

- **Objectives:**
  - Identify multi-state issues related to the testing and deployment of C/AVs in New England
  - Document opportunities and challenges related to the multi-state C/AV issues
  - Prepare an action plan that minimizes the challenges and pursues the opportunities
Project awarded to AECOM in March 2018

Kickoff meeting held on April 20, 2018

Workshop meeting planned for June 11, 2018

Anticipated final report around October 2018
OTHER INITIATIVES
I-95 Corridor Coalition

- Alliance of transportation agencies, toll authorities, and related organizations from 16 states along the east coast and Washington D.C. addressing transportation management and operations issues of common interest

- Convened a C/AV Workshop on December 11-12 for transportation agencies to:
  - Share state C/AV activities and plans
  - Identify challenges and barriers to C/AV adoption
  - Develop potential solutions and opportunities
  - Define implementation steps for agencies and the region

- Developing a report based on workshop findings, to be available in May/June 2018
Commission on the Future of Transportation in the Commonwealth

- Executive Order No. 579 established the Commission on the Future of Transportation to advise the Baker-Polito Administration on future transportation needs and challenges.
- 19 appointees will develop a range of scenarios anticipated between 2020 and 2040 to inform findings.
- Will provide a report on the analysis of members and make recommendations by December.
- 5 key focus areas include:
  - Climate and resiliency;
  - Transportation electrification;
  - Autonomous and connected vehicles;
  - Transit and mobility services, including ride-sharing services; and
  - Land use and demographic trends.
- Upcoming public meetings from labor day through July – information will be shared with AV Working Group email list.
June 12-13: Northeast Summit

2018 NORTHEAST AUTONOMOUS AND CONNECTED VEHICLE SUMMIT

Policy, Infrastructure, and Technology

June 12: Autonomous Vehicles
June 13: Connected Vehicles

Windsor/Hartford Marriott
WINDSOR, CT

For More Info Go To: http://s.uconn.edu/NACV2018
DRAFT REPORT OF THE AV WORKING GROUP
Draft Report of the AV Working Group

- Introduction
- Overview of the Autonomous Vehicles Working Group
- Policy Considerations
- Introduction to Autonomous and Connected Vehicles
- Autonomous Vehicles in Massachusetts
- Federal AV Guidance, Regulation, and Legislation
- Other State and International AV Initiatives
NEXT STEPS
Next AV Working Group Meeting

- Proposed Date Options for Meeting #9
  - Wednesday June 27  OR  Thursday June 28
    10 am – 12 pm

- Proposed Agenda
  - Harvard and City of Boston Policy Scrum
  - Regional Testing Initiative
  - AV Working Group Report