New England Transportation Consortium
Research Project

Connected & Automated Vehicles – Cross State Issues

2018 Northeast Autonomous and Connected Vehicle Summit
June 13, 2018

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Agenda

- What is NETC

- QR17-1: Quick Response Project Overview

- Research Objectives

- New England Status

- Cross-Border Issues

- Stakeholder Workshop

- Next Steps

What is NETC

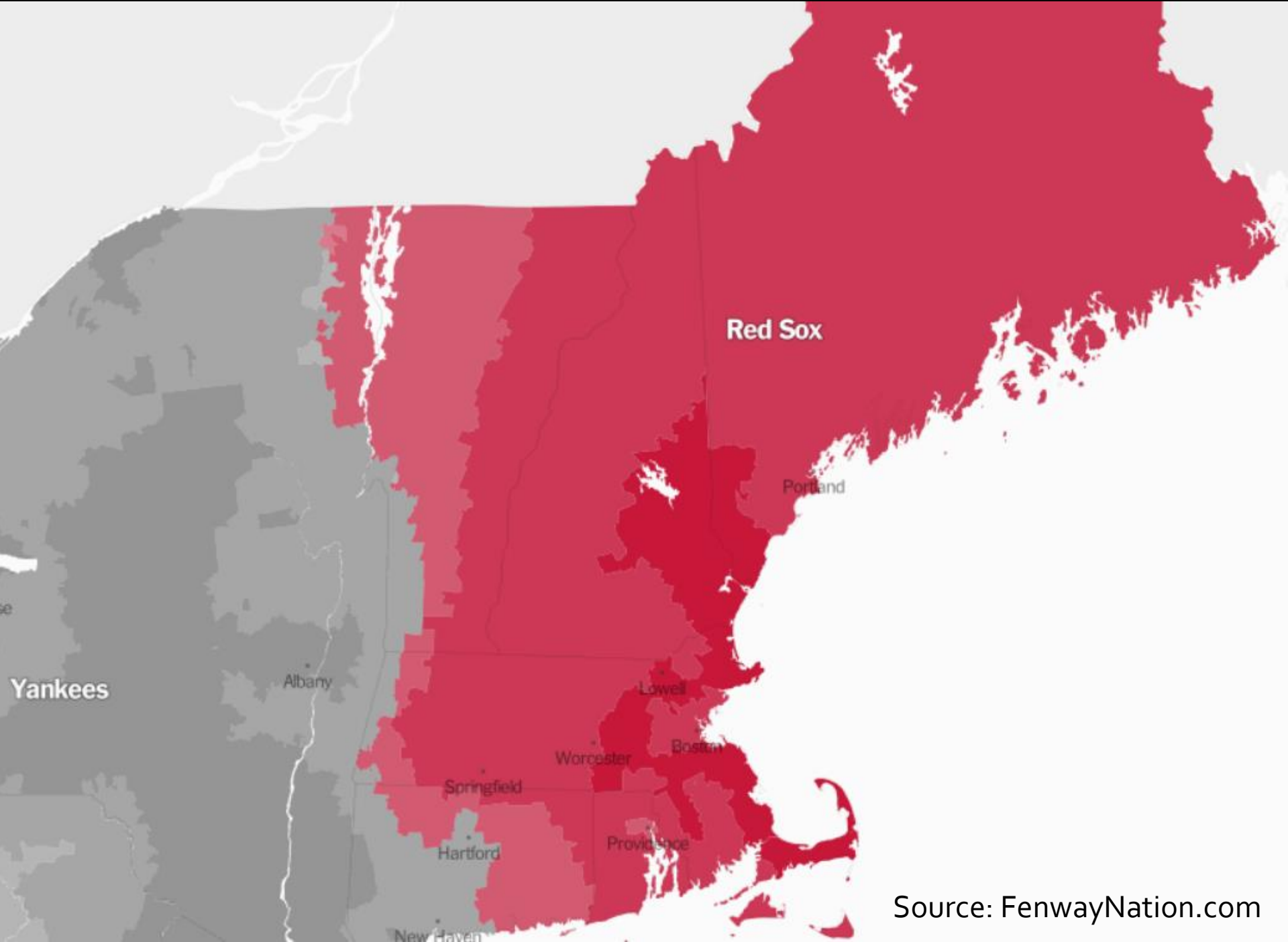New England
Transportation Consortium

- Research cooperative between state DOTs

- Identifies, prosecutes and disseminates shared transportation research initiatives

QR 17-1: CV/AV Quick Response

- TAC with members from all six New England States

- April – October, 2018

- Milestones

  - Kickoff meeting
  - Summary of Issues
  - Stakeholder Workshop

  - Roadmap of Actions
  - Present Draft Report
  - Final Report

Started Here…

Red Sox

Portland

Yankees

Albany

Lowell

Boston

Worcester

Springfield

Providence

Hartford

New Haven

Source: FenwayNation.com

Research Objectives

- Identify multi-state issues related to the testing and deployment of CVs/AVs in New England

- Document opportunities and challenges related to the multi-state CV/AV issues

- Prepare an action plan that minimizes the challenges and pursues the opportunities

New England Status

CV/AV Item	Status	CT	ME	MA	NH	RI	VT
AV Committee or Task Force	Forming				●		
	Established	●	●	●		●	●
CV/AV Legislation	Pending			●	●		
	Passed	●	●				●
	Executive Order		●	●			
CV Deployment	Planning			●			●
	Underway				●		
AV Pilot / Deployment	Planning	●				●	
	Underway			●			

States are already acting!

Cross-Border Issue Categories

- Legal/Regulatory

- Infrastructure

- Operations

- Data and Technology

Cross-Border Issues

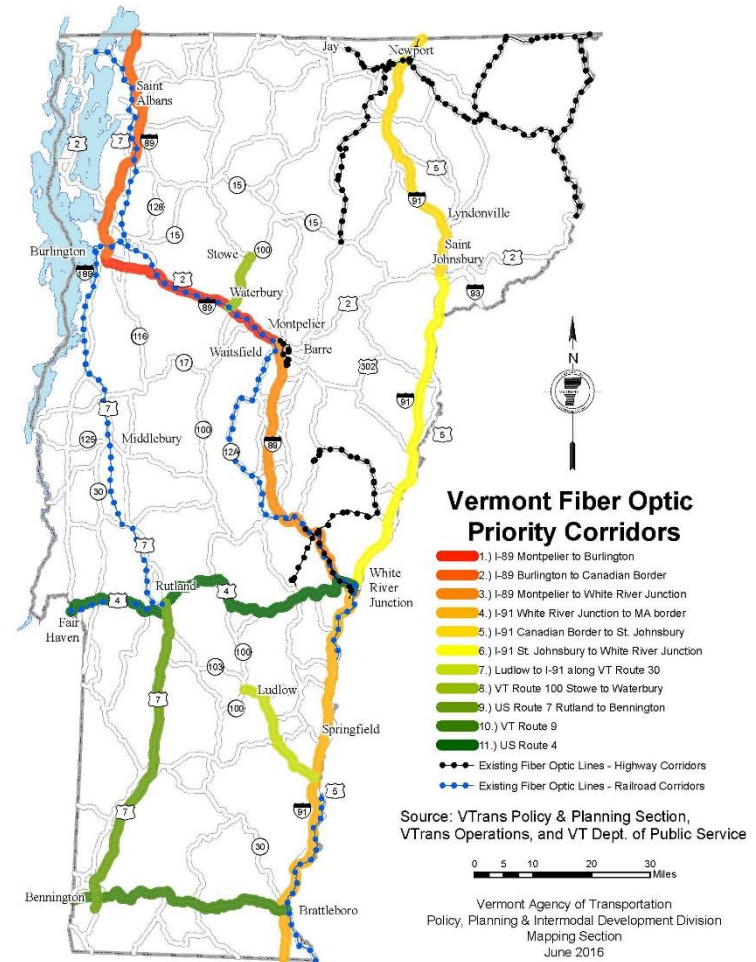**Legal/Regulatory** • Infrastructure • Operations • Data/Tech

- Vehicle Registration
- Driver Licensing
- Crash Investigation
- Insurance
- Freight regulation and policy
- Pilot Testing/Deployment

Cross-Border Issues

Legal/Regulatory • Infrastructure •

- Communication Network

- Road Side Units

- Infrastructure Standards

- Gravel roads

Vermont Fiber Optic Priority Corridors

- 1.) I-89 Montpelier to Burlington
- 2.) I-89 Burlington to Canadian Border
- 3.) I-89 Montpelier to White River Junction
- 4.) I-91 White River Junction to MA border
- 5.) I-91 Canadian Border to St. Johnsbury
- 6.) I-91 St. Johnsbury to White River Junction
- 7.) Ludlow to I-91 along VT Route 30
- 8.) VT Route 100 Stowe to Waterbury
- 9.) US Route 7 Rutland to Bennington
- 10.) VT Route 9
- 11.) US Route 4

•••• Existing Fiber Optic Lines - Highway Corridors
•••• Existing Fiber Optic Lines - Railroad Corridors

Source: VTrans Policy & Planning Section,
VTrans Operations, and VT Dept. of Public Service

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Miles

Vermont Agency of Transportation
Policy, Planning & Intermodal Development Division
Mapping Section
June 2016

Cross-Border Issues

Legal/Regulatory • Infrastructure • **Operations** • Data/Tech

- TMC/HOC Role

- Operations Between State Line

- International Vehicles

- Outreach, Behavior, Education

Cross-Border Issues

Legal/Regulatory • Infrastructure • Operations • **Data/Tech**

- Data Gathering
  - Infrastructure data from AVs
  - Data from Road Side Units
  - Key AV functions
- Network Resilience/Cybersecurity

Stakeholder Workshop

- 28 Attendees

- Discussed needs, challenges, and opportunities for the region

- Made adjustments to the list of cross-border issues

- Better defined what is needed for the roadmap of actions

Next Steps

- Additional Research

- Expert Interviews

- Roadmap of Actions due in July

- Draft Report Presentation in September

- Final Report due in October

Thank you!