Safety and Intersection Capital Programs

March 20, 2024



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## **Modernization Programs**

Working toward the vision of safety, mobility, and resiliency in our infrastructure





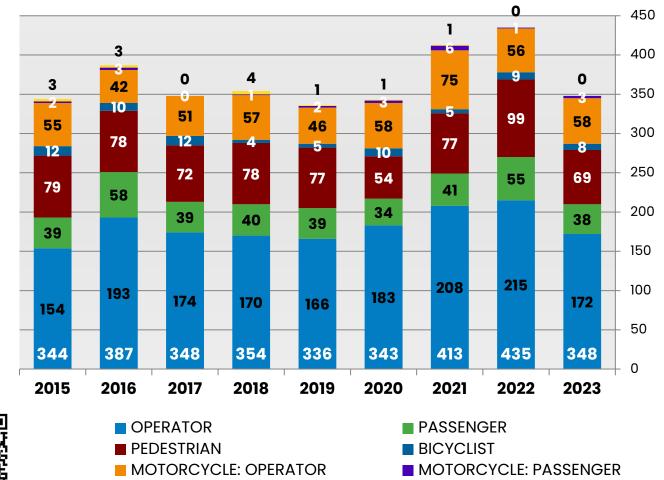
## Safety & Intersection Programs - Overview

Shared goal of proactively preventing serious crashes

### **Overall Fatalities**

OTHER

PRELIMINARY RESULTS - YTD through 12/31/23



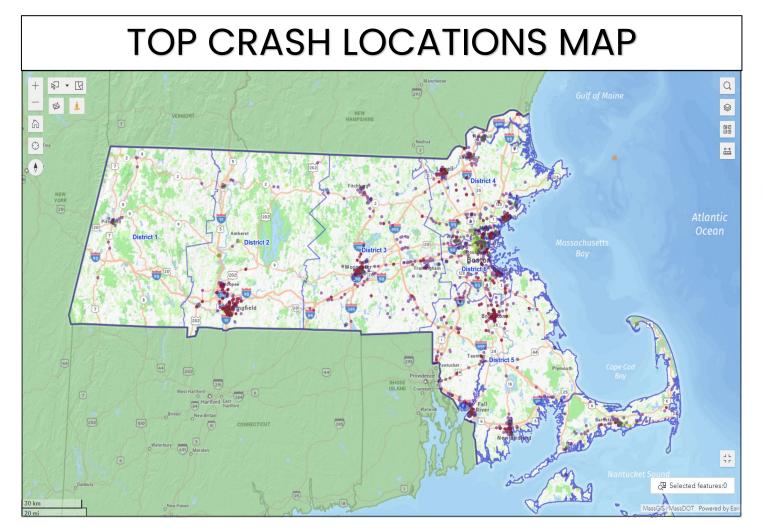
#### Three-part strategy:

- 1. Stand-alone safety & intersection projects
- 2. Safety integration into ALL projects
- 3. Municipal support



### **Intersection Improvement Projects**

Standalone intersection reconstruction projects following a data-driven approach



21 intersection projects:\$118 million total



## **Safety Improvement Projects**

Identify and mitigate risks to reduce fatal and injury crashes



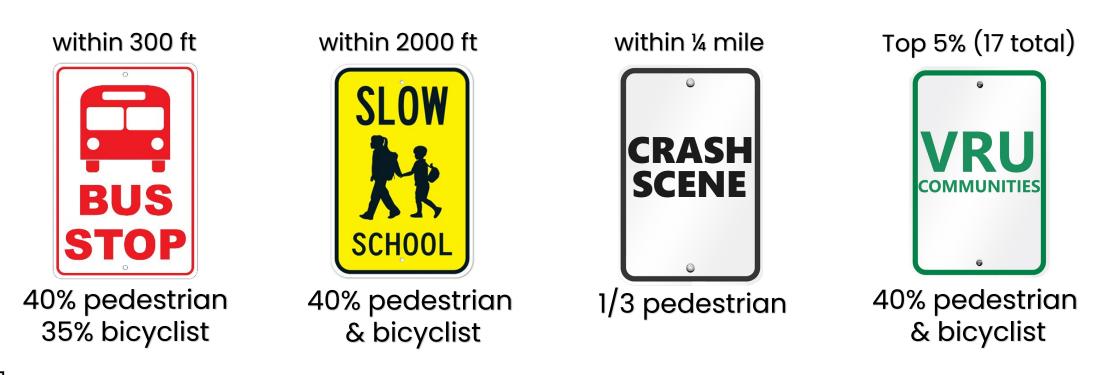
**26 safety projects** are programmed in next 5-year STIP for **~\$108 million total** 



## Vulnerable Road User (VRU) Assessment

Highlights and Key Findings

## Fatal & Serious Injuries







### **VRU Implementation**

Addressing high-risk municipalities and bus stops through multi-year programs

### **BUS STOPS**

First year: unsignalized crossings

### **TOP 5% COMMUNITIES**

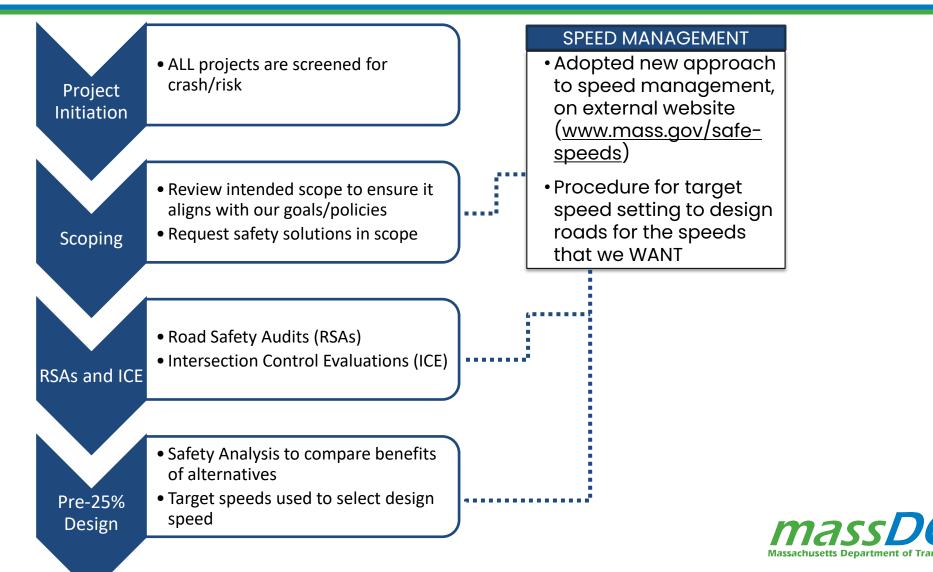
First year: locally owned signals





## **Safety Integration in All Programs**

Using speed management and other policies to institutionalize safety through design





## ThankYou

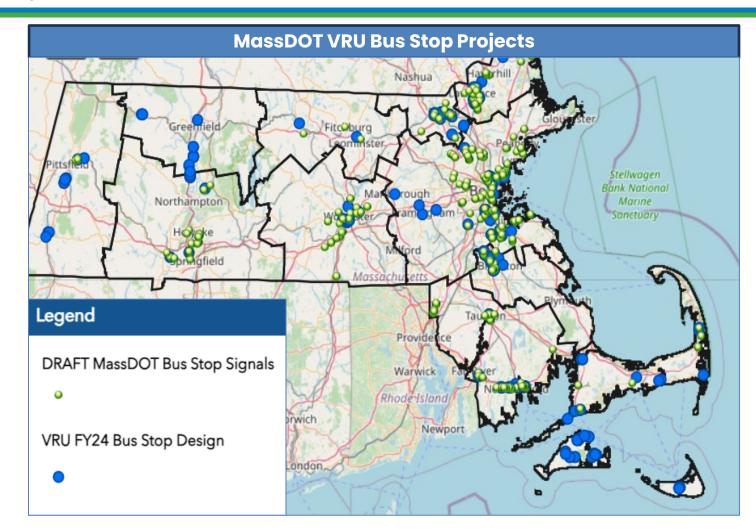


# Appendix



## VRU Implementation Projects - mapped

Bus Stops Projects

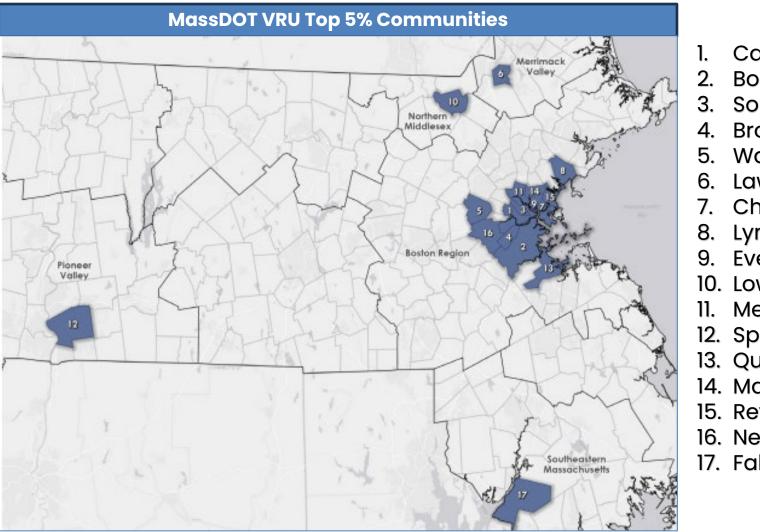






## **VRU Implementation Projects – mapped**

### Top 5% Communities



- Cambridge
- Boston
- Somerville
- Brookline
- Waltham
- Lawrence
- Chelsea
- Lynn
- Everett
- 10. Lowell
- 11. Medford
- 12. Springfield
- 13. Quincy
- 14. Malden
- 15. Revere
- 16. Newton
- 17. Fall River





## Municipal Support – Federal Safe Streets and Roads For All Grant Program (SS4A) [MassDOT not eligible]

Provided technical assistance and data resources to-communities for plan development & grant

### Springfield

- MassDOT funded and facilitated the development of Springfield's SS4A Action Plan, provided application assistance via consultant
- Springfield was one of 2 communities in Massachusetts to receive implementation grants in first round (other was Boston)
- Awarded Amount: \$15,012,800, covers design & construction

#### Brockton

- Awarded Amount:
  \$188,480 demonstration grant in October
- MassDOT following and learning from the successful model set with Springfield to assist Brockton with development of a SS4A Action Plan, which would allow them to apply for Implementation grants

### Lynn

- Playbook published in January 2021 before SS4A NOFO
- Construction funding for quick-build safety improvements programmed into STIP
- Actively working to build off the Playbook to create an SS4A Action Plan to apply for Implementation funding this Spring

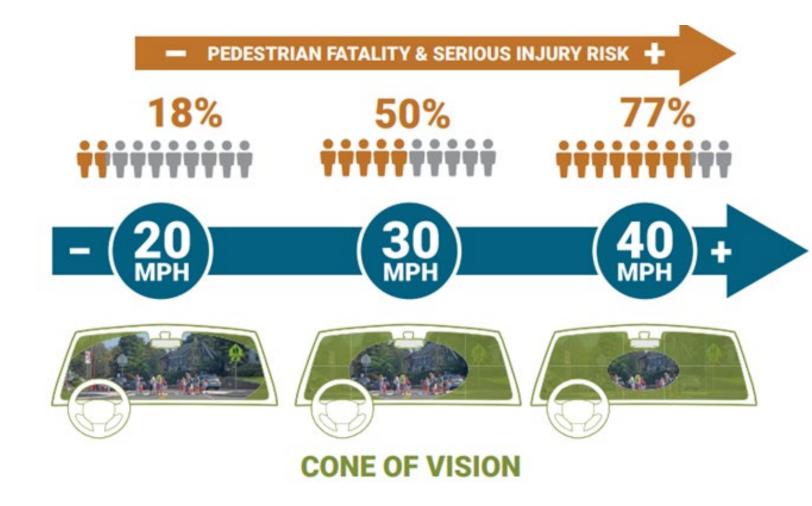
#### General

- Creating a Community of Practice document to share process that we have used in Action Plan Development with others
- Hosted an SS4A webinar in August 2022 about how MassDOT can support
- Set up a website that compiles SS4A Data Resources <u>https://arcg.is/1Knnv1</u>
- Presented at Transportation Manager Group meetings to offer SS4A support



## Speed management work in addition to capital program

Reducing speeds to reduce fatal and injury crashes



 Provided community funding through the Shared Streets and Spaces Grant

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- New target speed guidance in the new Project Development and Design Guide (PDDG). Anticipated release at Innovation Conference April 30/May 1
- Amend Massachusetts regulations related to speed (expand the definition of a school zone, adjust speed limit setting)
- Active Statewide Planning and Research (SPR) project to address emergency personnel and snow & ice operations concerns with speed management treatments



**Safety Integration Examples** Using speed management and other policies to institutionalize safety through design





