



# **Roadway Safety Performance Update and Calendar Year 2020 Targets**

**January 9, 2020**

**Michelle Scott, MPO Staff**

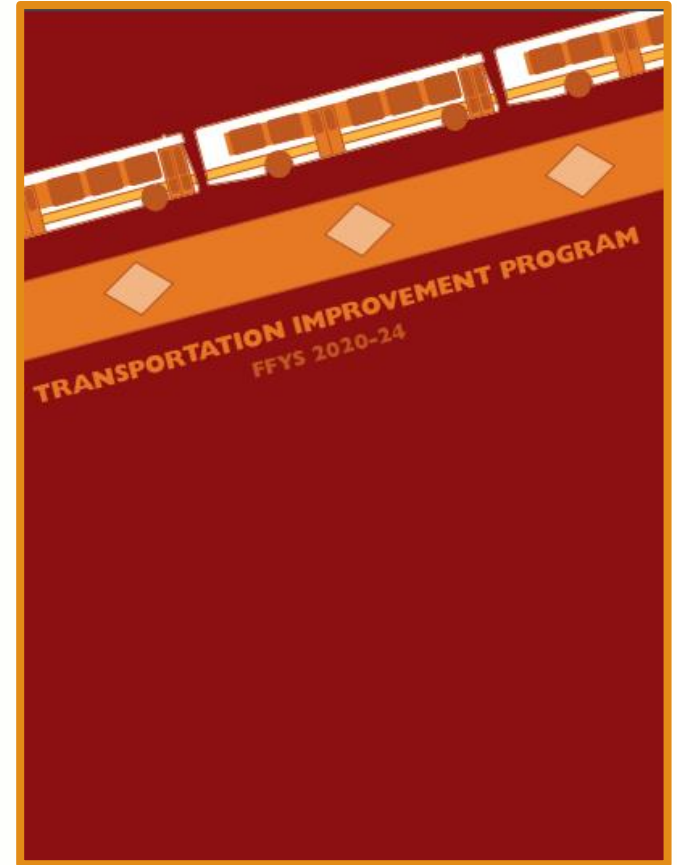
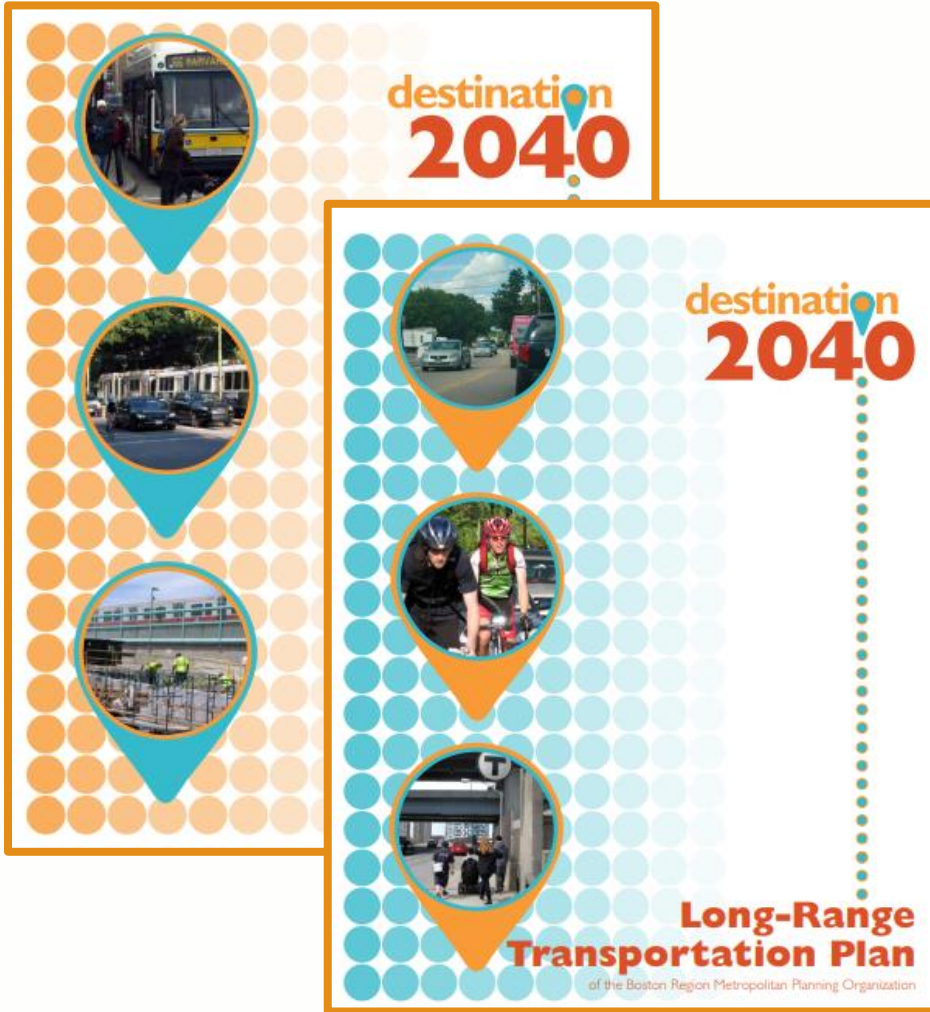
# Key Takeaways

- 1) **The Commonwealth and Massachusetts MPOs must continue to set annual targets for federally required roadway safety performance measures.**
- 2) **By February 27, 2020, MPOs must set targets by**
  - **supporting Commonwealth targets; or**
  - **setting separate MPO targets.**
- 3) **MPO staff recommends that the MPO support the Commonwealth's CY 2020 targets for these federally required measures.**

# Presentation Overview

- 1) **Current and Upcoming PBPP Activities**
- 2) **Overview of Roadway Safety Performance Measures**
- 3) **CY 2020 Target Setting Process**
- 4) **Roadway Safety Trends and Targets**
- 5) **Next Steps**
- 6) **Questions and Requested Action**

# Status of Boston Region MPO PBPP








# Performance Target Setting Outlook

| Federally Required Performance Measure Groups  | MPO Update Approach  | Schedule                 |
|--|--|--------------------------|
| <ul style="list-style-type: none"> <li>Roadway Safety</li> </ul>   | Update annually  | January 2020             |
| <ul style="list-style-type: none"> <li>Transit Asset Management</li> </ul>   | Revisit annually when updating TIP   | January or February 2020 |
| <ul style="list-style-type: none"> <li>Transit Safety</li> </ul>   | Revisit annually when updating TIP   | Fall/Winter 2020         |
| <ul style="list-style-type: none"> <li>NHS Bridge and Pavement Condition</li> <li>NHS Reliability</li> <li>Interstate Truck Travel Time Reliability</li> </ul> | Update every four years, or when state DOT updates its four-year targets     | TBD                      |
| <ul style="list-style-type: none"> <li>CMAQ Traffic Congestion Targets</li> </ul>  | Update every two years, in coordination with other parties in the Boston UZA | TBD                      |
| <ul style="list-style-type: none"> <li>CMAQ Emissions Reduction Targets</li> </ul>   | Update every two years, depending on federal applicability determination     | TBD                      |

CMAQ = Congestion Mitigation and Air Quality Improvement Program. DOT = Department of Transportation. NHS= National Highway System. TBD = to be determined. TIP = Transportation Improvement Program. UZA = urbanized area.

# Federally Required Roadway Safety PMs

| Measures  | Desired Direction   |
|---|---|
| Number of fatalities  |    |
| Rate of fatalities per 100 million VMT                              |    |
| Number of serious injuries  |    |
| Rate of serious injuries per 100 million VMT                        |    |
| Number of nonmotorized fatalities and nonmotorized serious injuries |  |

# Target Setting for Roadway Safety PMs



US DOT establishes a measure



State sets a statewide target for the measure



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Within 180 days, MPOs choose whether to:

support the statewide target

OR

set a separate target for the MPO area

# Commonwealth CY 2020 Target Setting

## Historic Data and Projections



## Current and Planned Strategies

Engineering

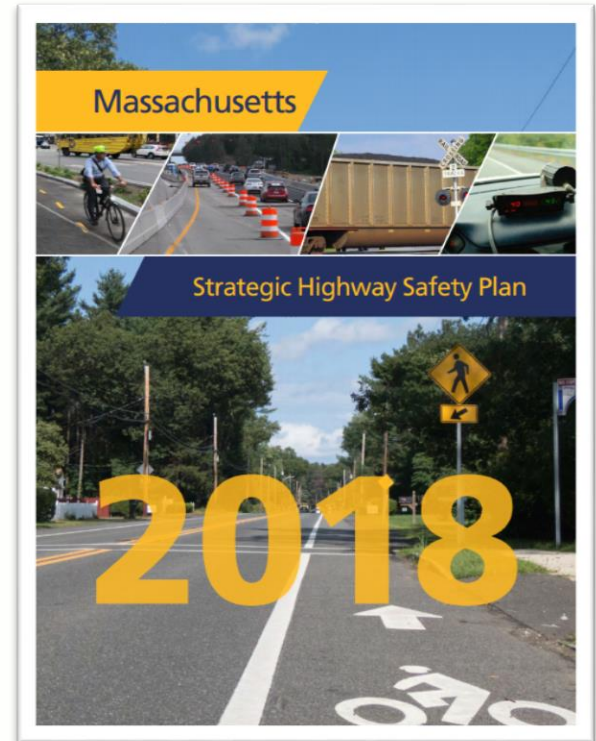
Data Collection

Enforcement

Education

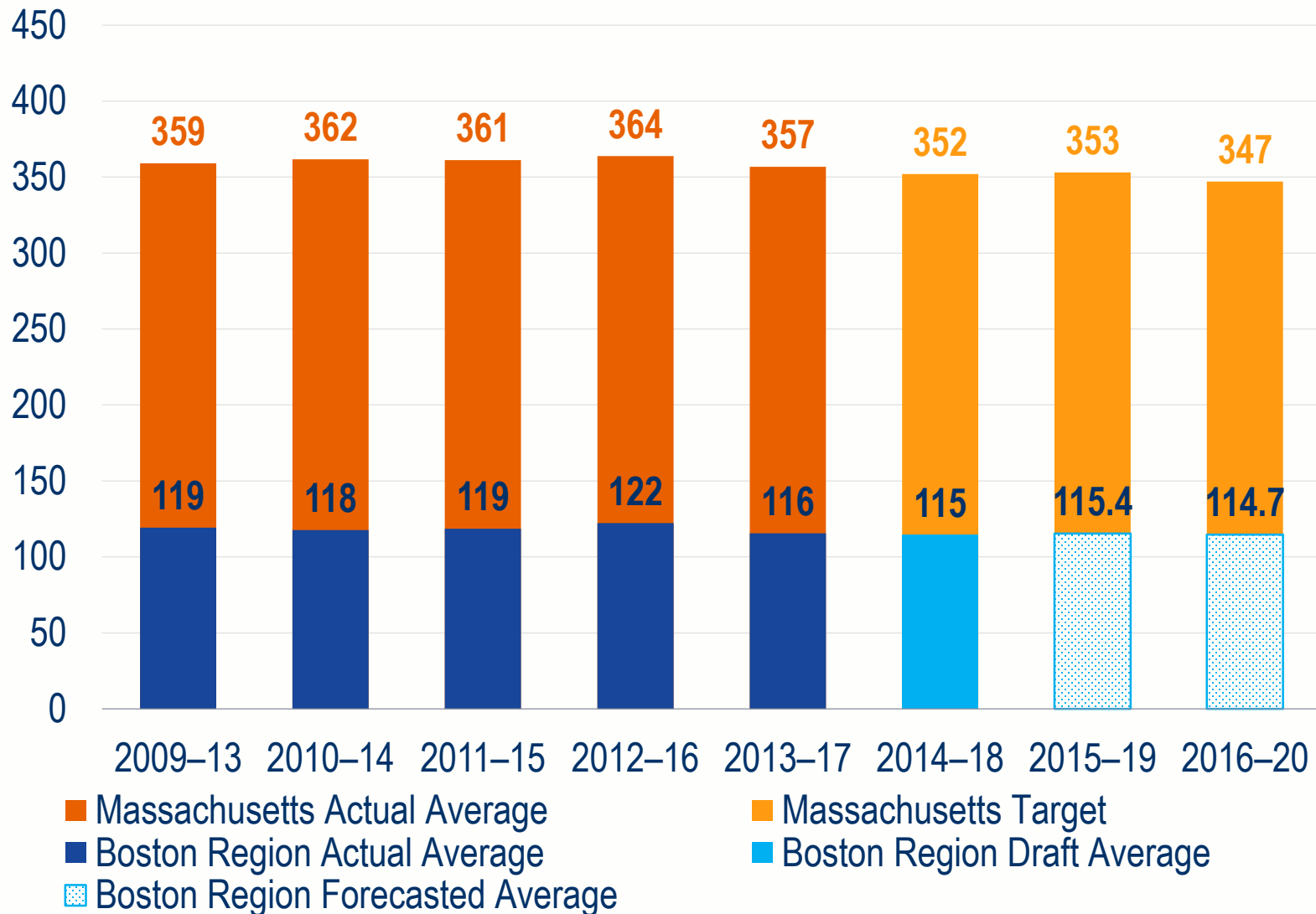
Emergency Response

## Proposed Policies and Legislation

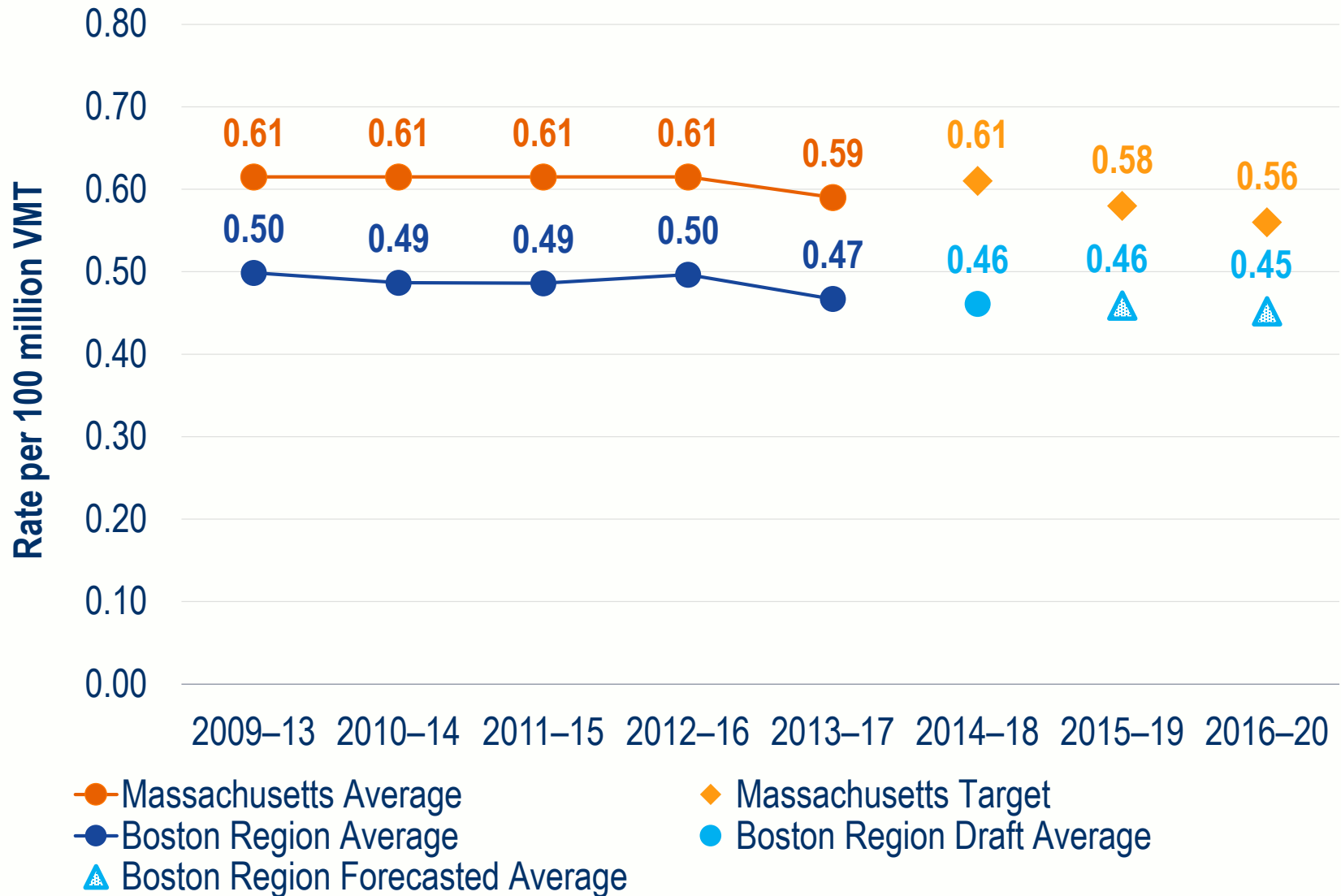




# Fatalities: Five-Year Averages

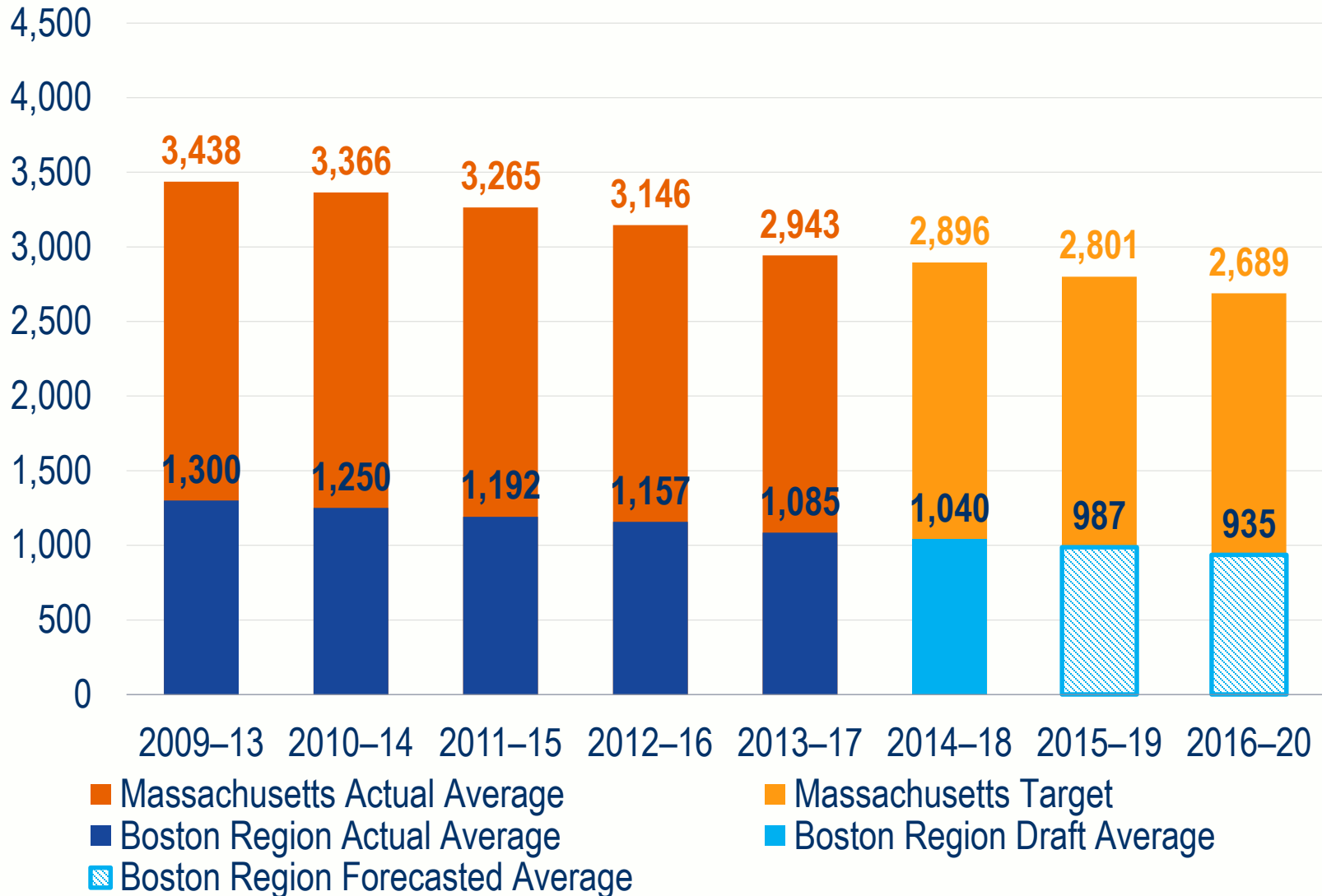


# Fatality Rates: Five-Year Averages



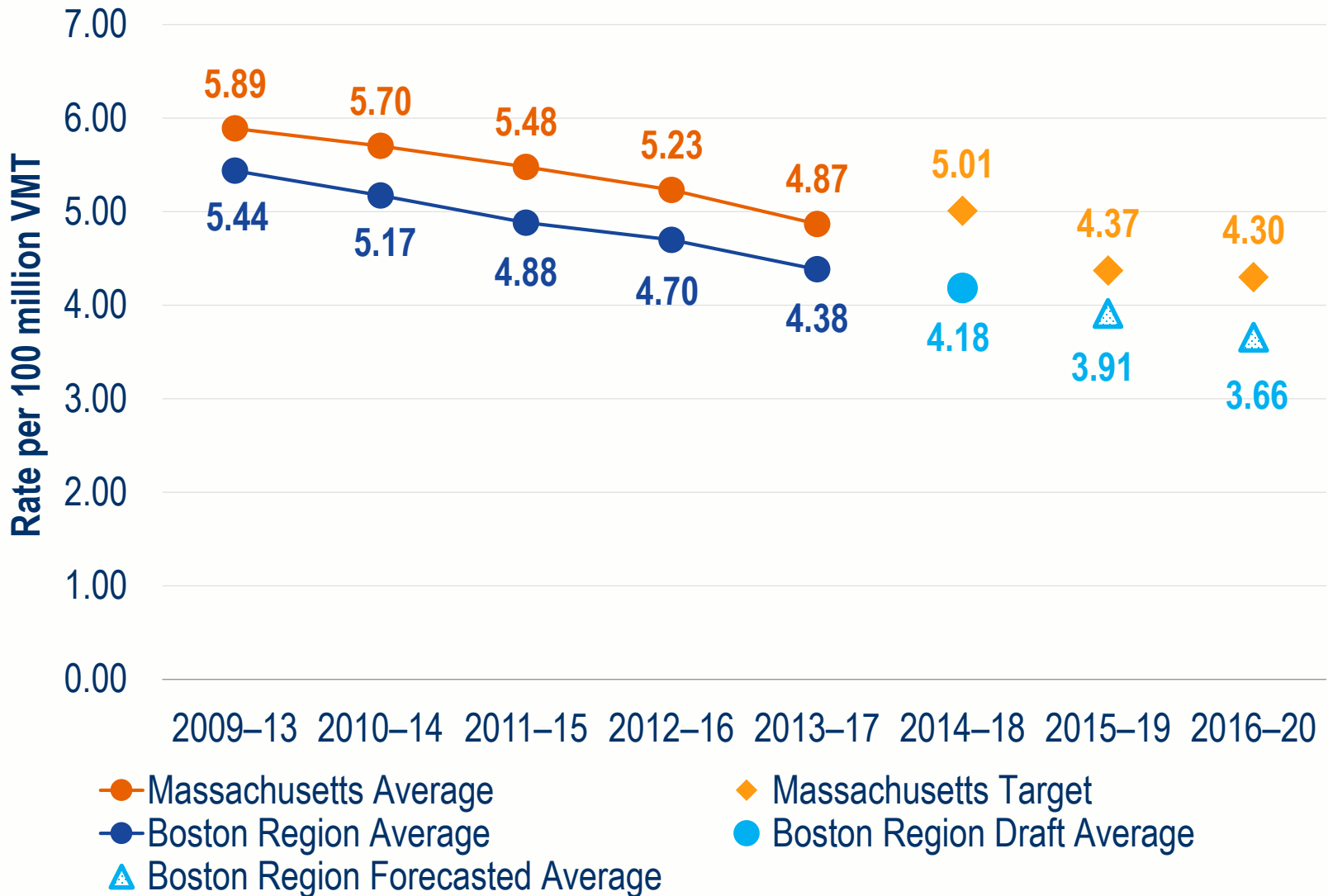
Sources: Federal Fatality Analysis Reporting System (FARS), MassDOT, Boston Region MPO staff.

# Serious Injuries



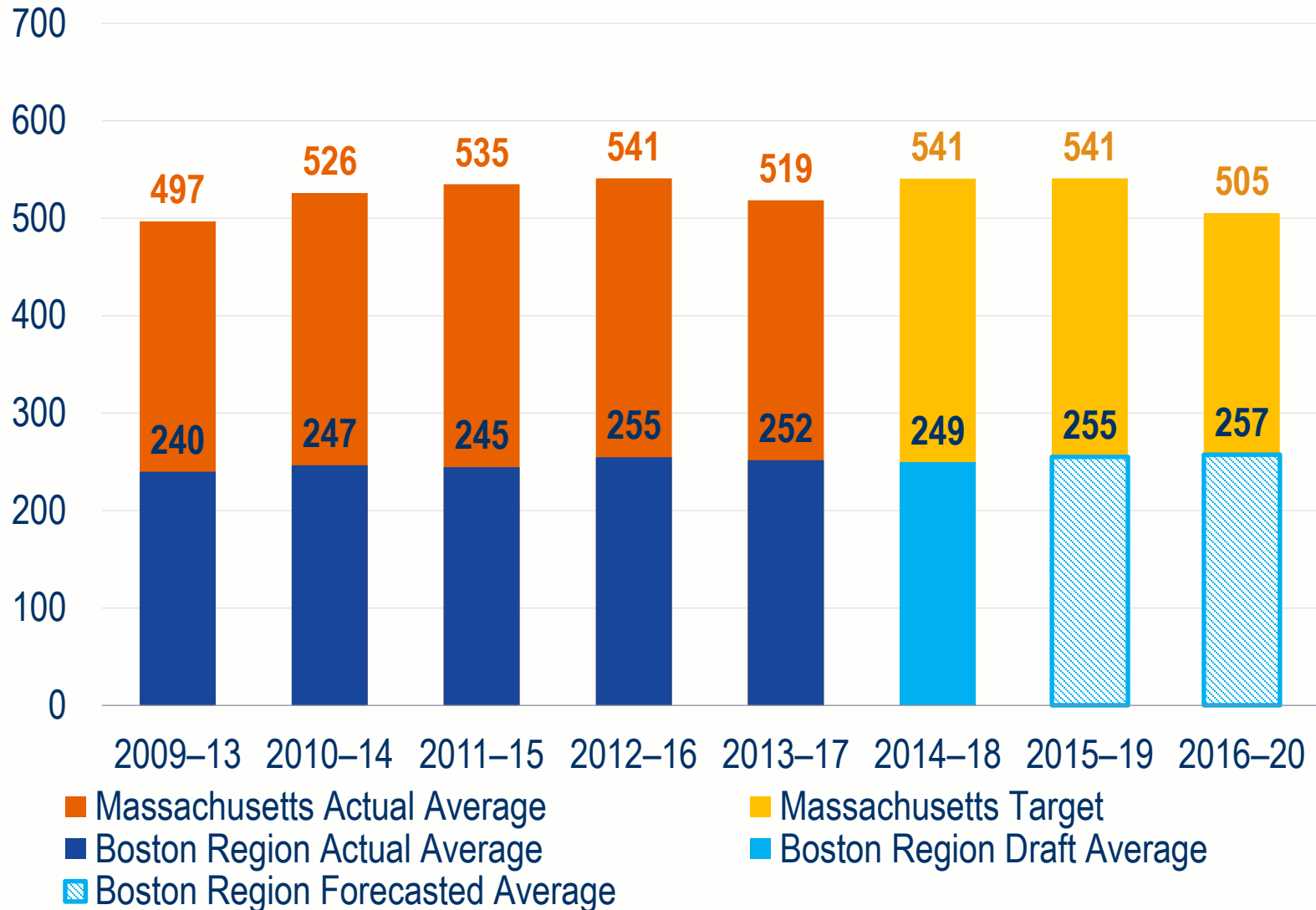
Sources: MassDOT Crash Data System, MassDOT, Boston Region MPO staff.

# Serious Injury Rates



Sources: MassDOT Crash Data System , MassDOT, Boston Region MPO staff.

# Nonmotorized Fatalities and Serious Injuries



# MPO Target Setting Options

Staff recommendation for CY  
2020 targets

## Support a Statewide Target

- No quantifiable target needed for the MPO area
- Agree to plan and program projects to help reach statewide target
- Work with MassDOT on target narratives for LRTP and TIP

## Set a Separate Target for the MPO Area

- Commit to a quantifiable target for the MPO area
- Coordinate with MassDOT on target development
- Report targets to MassDOT, and in LRTP and TIP

**FHWA reviews both state and MPO progress toward targets, but in different ways.**

# Upcoming Activities

- **Next steps:**
  - **MPO staff to incorporate adopted targets into FFYs 2021–25 TIP, and describe how the target relates to selected projects**
- **Future Steps:**
  - **Review FHWA assessment of progress against 2018 targets**
  - **Explore other MPO monitoring and target setting opportunities. For example:**
    - **Longer term targets (beyond one year)**
    - **Targets focused on specific roadway safety topic areas or issues**

# Questions and Discussion

- **Requested action: Vote to support the Commonwealth's set of CY 2020 targets**
- **Deadline: February 27, 2020**

