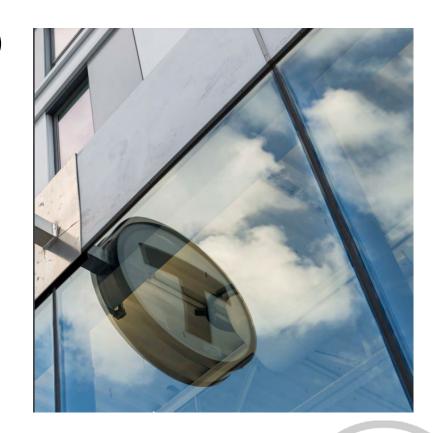


Three-Year Safety Improvement Plan Overview



### Contents

- Background (Chapter 176 of the Acts of 2022\*)
  - Scope Chapter 176 of the Acts of 2022
  - Executive Summary
  - Genesis of where plan originated
- 3-Year Safety Improvement Plan
  - Modes
  - Objectives
  - Targets
  - Reporting requirements
    - Annual evaluation over 3 calendar years



<sup>\*</sup>https://malegislature.gov/Laws/SessionLaws/Acts/2022/Chapter176

### Overview Chapter 176 Section 62 Acts of 2022

- Develop a 3-year safety plan submitted to the legislature by March 1.
- The plan needs to include the following:
  - (i) identify measurable safety objectives for each of the next 3 calendar years and an update on the progress for the prior calendar year when applicable; (ii) include an analysis of all modes of transit operated or overseen by the authority, including, but not limited to, light, heavy and regional rail, bus, paratransit and ferry; (iii) Provide communications if with oversight bodies.
  - Independent yearly audit authorized by the board.
  - Chief Safety Officer submits a letter on the strengths and weaknesses of the plan by March 1 along with the Chief Financial Officer on how funds requested by CSO are being appropriated in the Capital and Operating Budgets.



## **Executive Summary**

#### Mission

• Serve the public by providing safe, reliable, and accessible transportation services

#### Safety

• Embedded in our mission to protect our workers, riding public, and surrounding communities

#### MBTA Board of Directors and General Manager

• Support the mission

#### 3-Year Safety Improvement Plan

- Addresses the requirements in the Commonwealth of Massachusetts, Chapter 176 of the Acts of 2022,
  Section 62
- Based on our existing safety plans and our SMS process
- Embraces the organizational changes required to implement these plans and process
- Drive continuous improvement

This 3-Year Safety Improvement Plan defines the safety objectives and targets that will support the organization's transformation into a safe and reliable transit agency over the next three years

### 3-Year Safety Improvement Plan

#### Modes

- Subway (heavy and light rail)
- Bus
- Paratransit –"The RIDE"
- Commuter Rail
- Ferry

#### Objectives

- SMI Special
  Directive CAPs
- Transit TSP revision
- Commuter Rail SSP Plan implementation
- CR Safety & Resiliency Program
- Green Line TPS
- Station accessibility improvements
- Rail yard modernizations

#### Targets

- SMI Special Directives CAPs completion rate
- Transit TSP targets (heavy/light rail, bus, The RIDE)
- Commuter Rail –SSP Plan goals
- Ferry NTD reporting

### Reporting Requirements

- CSO letter and report
- CFO letter
- 3 calendar years



## MBTA Multi Modes by the Numbers

**RED** LINE



218 Vehicles, 22 Stations/Stops

BUS



1055 Vehicles, 7690 Bus Stops 8 Garages\*, 175 Bus Routes **3244** Bus Route Miles

**GREEN** LINE



206 Vehicles, 66 Stations/Stops

**COMMUTER** RAIL



90 Locomotives, 420 Coaches 137 Stations, 394 Track Miles 4 North Side Lines, 8 South Side Lines Operated by Keolis.

**ORANGE** LINE



120 Vehicles, 20 Stations/Stops

112 Vehicles, 12 Stations/Stops

**FERRY** 



**12** Boats (3 are MBTA-owned) 7 Terminals, 4 Routes\*\* Operated by Boston Harbor Cruises.

**BLUE** LINE



10 Vehicles, 8 Stations/Stops

The RIDE

LINE



373 Sedans, 457 Lift-equipped Vans

\*North Cambridge closed for future renovations \*\* Recently added route from East Boston to Long Wharf

### **Objectives**

- Leading indicators used to influence future outcomes
- Based on FTA's SMI results, Capital Transformation Program safetyrelated projects, other capital improvement projects and regulatory requirements
- Developed to improve safety culture and safety performance
- Expected outcomes include, but limited to:
  - Safety and workplace culture improvements leading to improved operational outcomes
  - Decrease in incidents of unintentional train movements and disabled trains in revenue service
  - Full implementation SMS and use of safety data analysis for safety risk decision making at all levels
  - Implementation of field-based hardware and software systems for collision prevention and speed control

#### Objectives

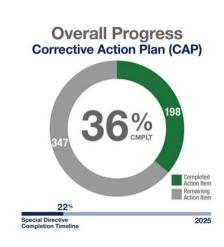
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  SSP Plan
  implementation
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### **Targets**

- Targets provide an indication of the effectiveness of our objectives
- The SIP targets are based on SMI CAPs completion rate, TSP targets, SSP Plan goals, and NTD reporting
- New performance targets for transit and ferry are established each year using the three-year rolling average of data submitted to the National Transit Database for:
  - Fatalities
- Safety Events
- Injuries
- System Reliability

Table 6-3. Safety Events Performance Targets

| Mode       | 3-Year Average<br>Total Number of<br>Safety Events <sup>3</sup> | Performance<br>Target Count for<br>CY2023 | 3-Year Average<br>Rate per 1 Million<br>Vehicle Revenue<br>Miles | Performance<br>Target Rate for<br>CY2023 |
|------------|---|---|--|--|
| Heavy Rail | 25  | 24  | 1.09   | 1.07                                     |
| Light Rail | 28  | 27  | 5.04   | 4.94                                     |
| Bus        | 100   | 98  | 4.29   | 4.21                                     |
| The RIDE   | 21  | 20  | 1.77   | 1.74                                     |



#### **Targets**

- SMI Special Directives CAPs completion rate
- Transit TSP targets (heavy/light rail, bus, The RIDE)
- Commuter Rail –SSP Plan goals
- Ferry NTD reporting



# Questions

