Transit Asset Management – SFY 2020 Update and Targets

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Key Takeaways

- **Federal Transit Administration (FTA) requires transit agencies and MPOs to set targets for transit asset management (TAM) performance measures as part of the federal TAM rule.**

- **The Boston Region Metropolitan Planning Organization (MPO) should update its existing TAM targets to reflect new transit agency data and targets.**

- **Staff Recommendation: Update MPO TAM targets to reflect transit agency state fiscal year (SFY) 2020 TAM targets.**

- **Opportunity: The MPO can consider transit asset performance before discussing capital programming.**

Presentation Overview

1) **Current and Upcoming Performance-based Planning and Programming (PBPP) Activities**
2) **Overview of TAM Performance Measures**
3) **MBTA Targets—Presentation by Jillian Linnell**
4) **Regional Transit Authority (RTA) 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	Status/ Schedule
• Roadway Safety	Update annually	✓
• Transit Asset Management	Revisit annually when updating TIP	January or February 2020
• Transit Safety	Revisit annually when updating TIP	Fall/Winter 2020
• NHS Bridge and Pavement Condition • NHS Reliability • Interstate Truck Travel Time Reliability	Update every four years, or when state DOT updates its four-year targets	TBD
• CMAQ Traffic Congestion Targets	Update every two years, in coordination with other parties in the Boston UZA	TBD
• CMAQ Emissions Reduction Targets	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.

The Why and How of TAM

- **Why: Improve transit asset state of good repair for better service delivery**

- **Transit agencies (and States):**
  - **Develop TAM Plans**

  - **Report asset inventories and condition to National Transit Database (NTD)**
  - **Set performance targets annually**

- **MPOs:**
  - **Set TAM performance targets for the Boston region**

  - **Consider transit capital programming in the context of TAM performance**
  - **Incorporate TAM information into planning documents**

TAM Performance Measures

Asset Category	Measure	Measure Type
Rolling Stock	Percentage of vehicles that have met or exceeded their Useful Life Benchmark	Age-based
Equipment [vehicles only]	Percentage of revenue vehicles that have met or exceeded their Useful Life Benchmark	Age-based
Facilities	Percentage of assets with condition rating below 3.0 on FTA TERM scale	Condition-based
Infrastructure [Fixed Guideway]	Percentage of track segments with performance [speed] restrictions, by mode	Performance-based

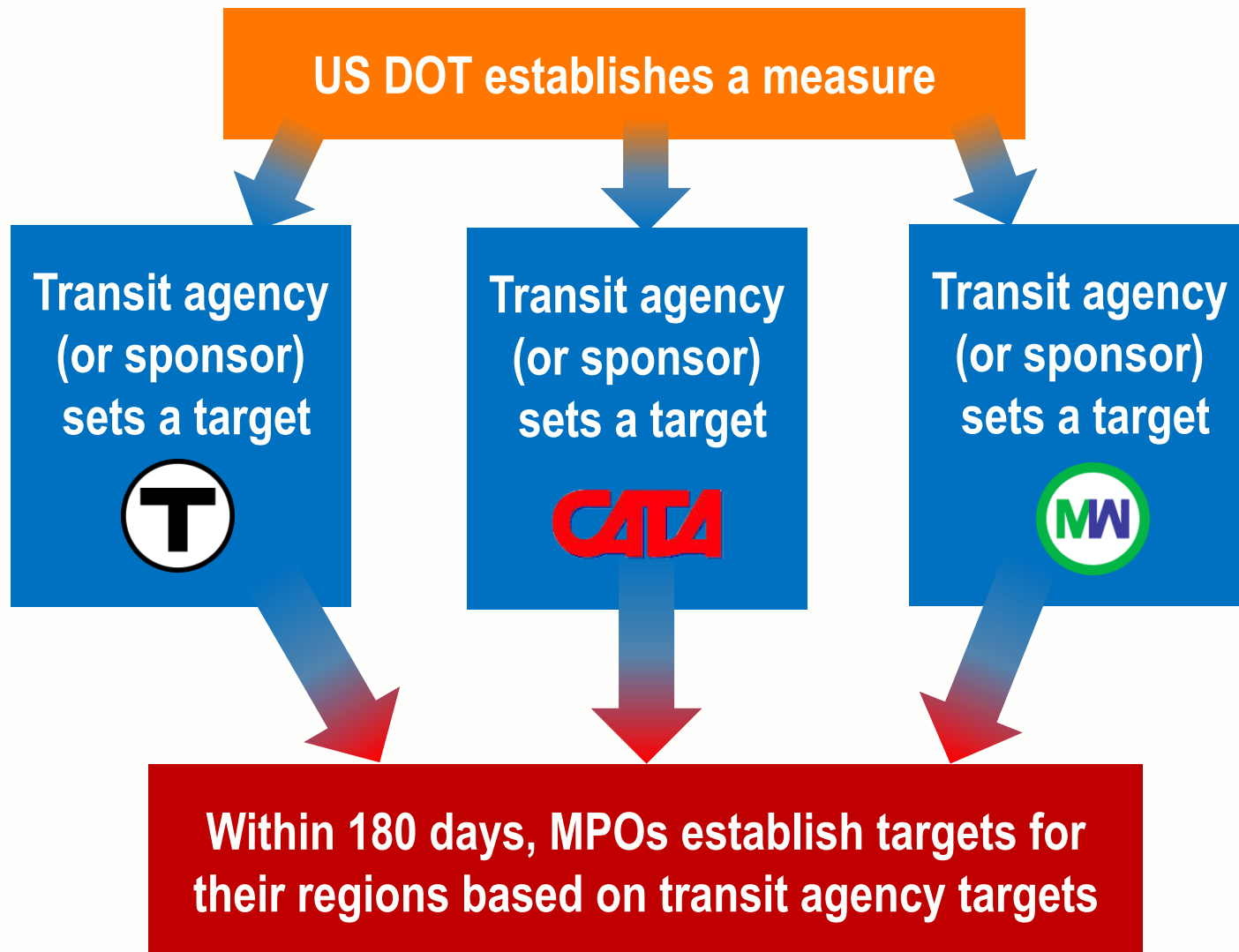FTA TERM = Federal Transit Administration Transit Economic Requirements Model.

Goal: Minimize percentage of assets for all measures

Measure and Target Characteristics

- **Federally required measures:**
  - Cover a subset of transit system assets
  - Focus on specific condition metrics for asset types

- **Federally required targets:**
  - Short-term management tools
  - Set annually for one fiscal year
  - Consider most recent available condition data and reasonable financial projections
  - No rewards or penalties for transit agencies, states, or MPOs related to target achievement

Target Setting for TAM Performance Measures

US DOT establishes a measure

Transit agency (or sponsor) sets a target

Transit agency (or sponsor) sets a target

Transit agency (or sponsor) sets a target

Within 180 days, MPOs establish targets for their regions based on transit agency targets

CATA = Cape Anne Transportation Authority. MW = MetroWest Regional Transit Authority. T= Massachusetts Bay Transportation Authority. US DOT = US Department of Transportation.

Proposed SFY 2020 Targets

Targets reflect:

- **July 2019 to June 2020 timeframe**

- **Results of transit agencies' ongoing assessments and planning**

When proposing regional targets, MPO staff:

- **Incorporated information from transit agencies directly**

- **Listed separate targets for the MBTA and RTA, with some aggregation of asset categories**

SFY 2020 MBTA TAM Targets

RTA Targets

RTA Rolling Stock and Equipment

Measure: Vehicles at or Beyond Useful Life Benchmark

Agency	Vehicle Type	Baseline (6/30/2019)	Target (6/30/2020)	Change
CATA	Buses	0%	25%	⬆
CATA	Cutaway Vehicles	0%	0%	=
CATA	Trolleys (simulated)	100%	100%	=
CATA	Nonrevenue Service Vehicles	0%	0%	=
MW	Automobiles	100%	100%	=
MW	Cutaway Vehicles	26%	25%	⬇
MW	Nonrevenue Service Vehicles	67%	58%	⬇

CATA = Cape Anne Transportation Authority. MW = MetroWest Regional Transit Authority.

RTA Facilities

Measure: Facilities with a FTA TERM Scale Rating Less than Three

Agency	Facility Type	Baseline (6/30/2019)	Target (6/30/2020)	Change
CATA	Administrative/Maintenance	0%	0%	=
MW	Administrative/Maintenance	0%	0%	=

CATA = Cape Anne Transportation Authority. MW = MetroWest Regional Transit Authority.

Upcoming Activities

Next Steps: FFYs 2021–25 TIP Development

- **Transit agencies describe capital planning processes**

- **MPO considers project information with TAM context**

- **MPO incorporates updated TAM targets and information on how investments affect TAM performance measures into next TIP**

Next Steps: Transit Agency TAM Process

- **Transit agencies continue to collect performance data and refine forecasts and plans**

FFY = federal fiscal year. TIP = Transportation Improvement Program

Questions and Discussion

- **Requested action: Vote to support the staff-recommended set of SFY 2020 TAM targets**

- **Approximate Deadline: March 31, 2020**