

MBTA Capital Investment Plan

Overview for RTAC and MPO

4/10/2019



FY20-24 CIP Process Recap



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Next evolution of the MBTA CIP: Continuous improvement FY17-21 CIP FY18-22 CIP FY19-23 CIP FY20-24 CIP Incorporate Introduced a new Continued the Aligned priorities with strategic **Transit Asset** strategic structure and goals and plans approach to Management process introduced the (TAM) Plan data produce a Issued agencybalanced portfolio and findings prior year wide call for of projects Focused on fully projects to Use CIP process Represented the funding prior identify needs to implement first set of Focus40 first fully commitments, and build pipeline integrated project readiness, "next priorities" Incorporated MassDOT-MBTA acceleration, and Transit Asset Leverage **PMIS** _ CIP targeted updates for project intake, Management Expanded (TAM) data eval, and After years of ambitious capital underinvestment, prioritization Scored all project challenged the spending goals to proposals using Focus on \$7.4 billion over agency to spend -PSAC execution and \$6.6 billion over five years methodology optimization of the five year capital program window Produced \$8 billion plan



FY20-24 CIP Funding Sources: Estimated ~\$8B available for the next five year plan



Sources highlights:

- Federal funds continue to be the single largest source of capital for the MBTA
 - GLX Full Funding Grant Agreement: \$996M overall; \$758M in FY20-24
 - FTA Funds: \$2.9B in FY20-24 assumes annual 1.7% increases in formula allotment plus discretionary grants
- MBTA Bonds, including Sustainability Bonds, support the 20% match for Federal projects, as well as MBTA-only funded projects
- **State** funds include \$2B in FY20-24:
 - Rail Enhancement Program (REP) special obligation bonds for GLX, Red Line/Orange Line improvements, and other projects
 - Pay-Go/Lockbox for customer-facing projects, including \$60M/year in bond cap and \$90M in appropriated state assistance
- **Other** funding sources include municipal contributions and other reimbursements



FY20-24 CIP Funding Sources: TIP represents 25-30% of MBTA capital program



Federal Sources:

- The Federal program is a subset of the larger MBTA capital program and is determined after projects are prioritized
- Of \$3.8B in total federal funds, appx \$2.3B is available for programming in the TIP:
 - \$1,065M in Sec. 5307 urbanized area formula funds
 - \$1,163M in Sec. 5337 fixed guideway state of good repair funds
 - \$47M in Sec. 5339 bus and bus facilities funds
- Current TIP proposal reflects amendment to FFY19 and new program for FFY20-24.



The TIP is a subset of the broader MBTA capital program





Consistent with the overall MassDOT Capital Plan, the MBTA CIP is structured around *priorities* and *programs*

- Reliability: Maintain and improve the overall condition and reliability of the transportation system
- 2. Modernization: Modernize the transportation system to make it safer and more accessible and to accommodate growth
- **3. Expansion:** Expand diverse transportation options for communities throughout the Commonwealth

Reliability

- Bridges and Tunnels
- Facilities
- Revenue Vehicles
- Stations
- System Upgrades
- Track, Signals, and Power

Modernization

- Accessibility
- AFC 2.0
- Commuter Rail Safety and Resiliency
- Customer Experience and Technology Improvements
- Process Improvements and Innovation
- Red / Orange Line Improvements
- Risk Management and Mitigation
- Green Line Transformation

Expansion

- Green Line Extension
- Expansion Projects
- Expansion Project Development



Within each program, new project proposals are scored and ranked using a consistent set of PSAC Criteria

Legislatively-mandated Project Selection Advisory Council (PSAC) established uniform project selection criteria to be used across MassDOT divisions in preparing the CIP

System Preservation	 Projects should contribute to a state of good repair on the transportation system.
Mobility	 Projects should provide modal options efficiently and effectively.
Cost Effectiveness	 Projects should result in benefits commensurate with costs and should be aimed at maximizing the return on the public's investment.
Economic Impact	• Projects should support strategic economic growth in the Commonwealth.
Safety	 Projects should contribute to the safety and security of people and goods in transit.
Social Equity & Fairness	 Projects should equitably distribute both benefits and burdens of investments among all communities.
Environmental & Health Effects	 Projects should maximize the potential positive health and environmental aspects of the transportation system.
Policy Support	 Projects should get credit if they support local or regional policies or plans; or state policies not addressed through the other criteria.



FY20-24 MBTA CIP Project Selection Criteria reflect multiple priorities (1 of 2)

Criteria	Description	Factors
System Preservation	The extent to which the project contributes to a state of good repair on the transportation system and aligns with asset management goals and strategies.	Asset Condition
		Impact to Other Assets
		Operations Criticality (Service Disruption)
		Climate Change and Severe Weather Resiliency
Mobility	The extent to which the project is intended to provide modal options efficiently and effectively for all users through benefits to reliability, accessibility, and other measures of service quality.	Impact on Reliability
		Impact on Accessibility
		Impact on Customer Experience
		Impact on Riders
Cost Effectiveness	The extent to which the project impacts operating costs and revenues and maximizes the return on the public's investment	Impact on Operating Costs
		Impact on Operating Revenues
Safety	The extent to which the project addresses safety issues and hazards and security	Impact on System Safety
	vulnerabilities and risks.	Impact on System Security
Environmental and Health Effects	The extent to which the project: 1) meets State goals of improving Air Quality and reducing Greenhouse Gases and 2) results in	Air Quality and GHG Reduction
	a reduction of pollution and/or consumption of natural resources	Reduce Pollution and/or Consumption of Natural Resources



FY20-24 MBTA CIP Project Selection Criteria (1 of 2)

Criteria	Description	Factors
Policy Support	The extent to which the project is aligned with the MBTA Strategic Playbook and utilizes an innovative strategy	Alignment with Focus40
		Utilizes an Innovative Strategy
Economic Impact (Only required for	The extent to which the project is intended to provide modal options efficiently and effectively for all users through benefits to	Impact on Connectivity to Employment Centers, Destination Districts, Priority Places identified in Focus40
modernization/expansion projects)	reliability, accessibility, and other measures of service quality.	Impact on Corridors at or Near Capacity
		Impact on Communities with Transit- Supportive Land Use
		Impact on Commuting Costs
Social Equity	The extent to which the project equitably distributes economic, social, and health	Benefits to Environmental Justice (EJ) and Title VI Communities
(Only required for modernization/expansion projects)	benefits to residents and local businesses.	Additional Equity Benefits to Protected Populations

MBTA leadership also consider project readiness, resource impacts, modal and geographic equity, and sequencing/scheduling when prioritizing projects for the FY20-24 CIP



Using scores as a starting point, proposals for new projects or additional funding for existing projects are prioritized within each investment program



* Denotes additional funding for existing project or program



Once the prioritization process produces a draft project list, staff assign or update funding sources to optimize available funds

Handout: Draft FFY20-24 TIP



The resulting draft CIP is a balanced set of investments that optimize available funds to address system needs and strategic priorities



FY20-24 CIP Spending by Priority and Program (\$M)

Draft for Discussion & Policy Purposes Only



The resulting draft CIP is a balanced set of investments that optimize available funds to address system needs and strategic priorities



FY20-24 CIP Spending by Mode/Line (\$M)

Draft for Discussion & Policy Purposes Only



Questions?

- Where do project proposals originate?
- How can I (or my boss) express support for a particular project?
- When will the draft CIP be released for public review?
- How do you choose projects for the federal program?
- Why did you include project X (or exclude project Y)?