



Massachusetts Bay Transportation Authority

General Manager's Remarks

Fiscal and Management Control Board

November 27, 2017



Agenda

- Key Priorities
- Green Line Grade Crossings
- Procurement Process Update
- Appendix: Capital Dashboard



Five Key Priorities

- Safety First
- People
- Delivering Capital Projects
- Digital Transformation
- Financial Sustainability



Priority One: Safety First

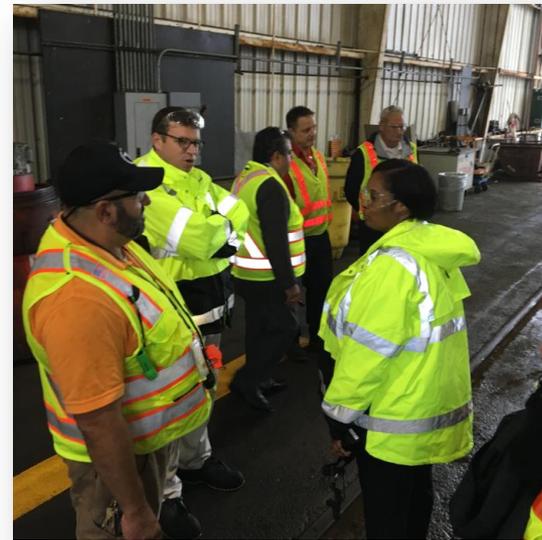
- Part of the fabric of new culture
- Extending beyond employees to customers





Priority Two: People

- Putting customers first; show them we care
- Invest in our employees and build our team
- Continue momentum of culture change





Priority Three: Delivering Capital Projects

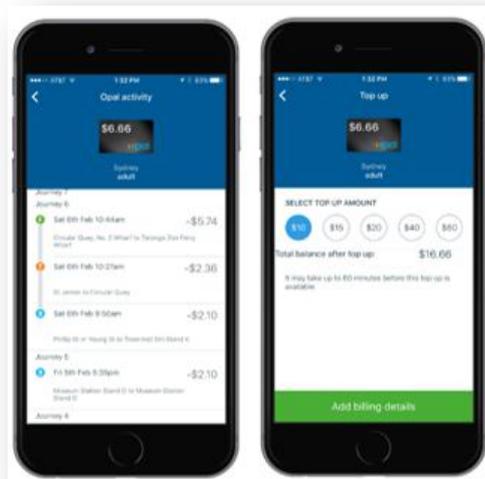
- Boost capital spending
- Continue making investments that deliver improvements to all facets of the MBTA system





Priority Four: Digital Transformation

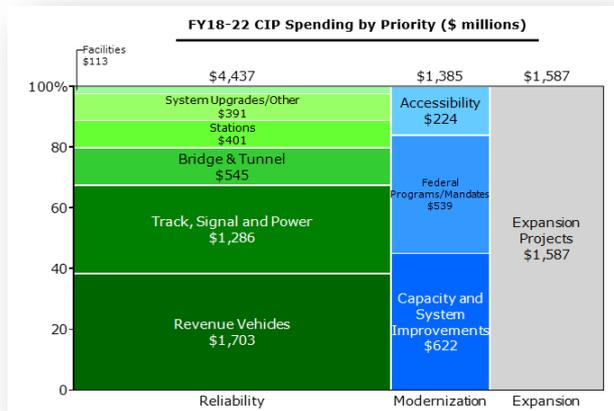
- The future of transit is digital
- Establishing new data sets to help guide decisions on improvements
- Leave the door open to new technology





Priority Five: Financial Sustainability

- Continuing rollout of budgeting and reporting systems
- Process redesigns that track every dollar spent on core improvements



MONTHLY REPORTING PACKAGE, SEPTEMBER 2017 (FY2018)

Department Name: Administration and Capital
 Department Code: 60000
 Department Head: Rod Fisher
 Department Budget: 2017 program

FINANCIAL UPDATE

KEY TO DATE FINANCIAL SUMMARY: Shows actual performance of your department for the current period and compares it to budget. It also shows the budget variance for the current period and the year-to-date variance. This report is used for internal review and is not for public release. The values should close each day to the budget and the year-to-date variance should be zero.

CHALLENGES/NEEDS TO OPERATIONS IN COMING QUARTERS: Please discuss operating challenges/needs over department and how they are related to your department. This is an opportunity to highlight potential issues or budget gaps.

OPERATIONS UPDATE

OPERATIONS SUMMARY: Please discuss operational progress, including trends in budget, cost and efficiency. How have conditions that affect the department changed? Please discuss any operational issues that are related to the other sections.

CHALLENGES/NEEDS TO OPERATIONS IN COMING QUARTERS: Please discuss operational challenges/needs over department and how they are related to your department. This is an opportunity to highlight potential issues or budget gaps.

KEY PROJECTS/INITIATIVE OVERVIEW: Please discuss key projects/initiatives that are currently in progress.

OPERATIONS SUMMARY:

Project Name	Start Date	End Date	Status	Department
Capital Improvement	01/15/17	01/15/17	In Progress	Administration and Capital
Operational Improvement	01/15/17	01/15/17	In Progress	Administration and Capital
System Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Infrastructure Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Process Improvement	01/15/17	01/15/17	In Progress	Administration and Capital
IT System Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Facilities Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Equipment Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Staffing Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Training Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Compliance Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Security Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Energy Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Water Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Waste Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Air Quality Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Climate Change Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital
Other Upgrade	01/15/17	01/15/17	In Progress	Administration and Capital



Phased Replacement of 60 Green Line Grade Crossings

Sample Deteriorated



Sample Repaired



Scope

Phase 1 will replace 27 deteriorated Green Line grade crossings primarily along Commonwealth, Beacon, and Huntington Avenues. This work is a critical component of the SGR backlog.

Public Benefit

- Public Safety
- System Reliability

Schedule

- Phase 1 Start April 2018
- Phase 1 Complete April 2019

Anticipated Construction Cost

- Phase 1 - \$15M



FairMarkIT is a new public bidding platform that increases efficiency, equity, and transparency

KEY BENEFITS

- ✓ All quotes electronically stored
- ✓ Vendor purchasing history in central location
- ✓ Inviting ten vendors to bid is as easy as inviting one
- ✓ Public, open, available to all

The screenshot displays the FairMarkIT website for the Massachusetts Bay Transportation Authority. The header includes the FairMarkIT logo, the MBTA logo, and navigation links for 'Become a Bidder', 'About', and 'LOGIN'. The main banner features a photograph of a red and white MBTA train and the text: 'Doing Business with the MBTA: Powered by Fairmarkit. Simplified open solicitations for Suppliers, Vendors and Contractors.'

Below the banner, there are two tabs: 'OPEN' and 'CLOSED'. Under the 'OPEN' tab, there is a search bar labeled 'Search through Bids' and a list of seven open bids. Each bid entry includes a bid ID, a description, the quantity, and a 'VIEW MORE' button.

Bid ID	Description	Quantity	Action
0000751763 OPEN	FLTR-FUEL,SECONDARY - 12 PKG - NOVA	108 ^{PCS}	VIEW MORE
0000750824 OPEN	AIR SPRING, FIRESTONE (BID 5777)	30 ^{PCS}	VIEW MORE
000075019 OPEN	WASHER, 7/8 FLAT (HARDENED) (BID 5755)	300 ^{PCS}	VIEW MORE
000075010 OPEN	PUMP, BOOSTER ASSY (AMETEK) NF DIESEL (BID 5778)	14 ^{PCS}	VIEW MORE
0000751770 OPEN	SENSOR, OIL PRESSURE, CAT C9 E	12 ^{PCS}	VIEW MORE
187-001004 OPEN	PIEZO VERIFIERS AND HOT STICKS	10 ^{PCS}	VIEW MORE



Appendix

- Capital Dashboard



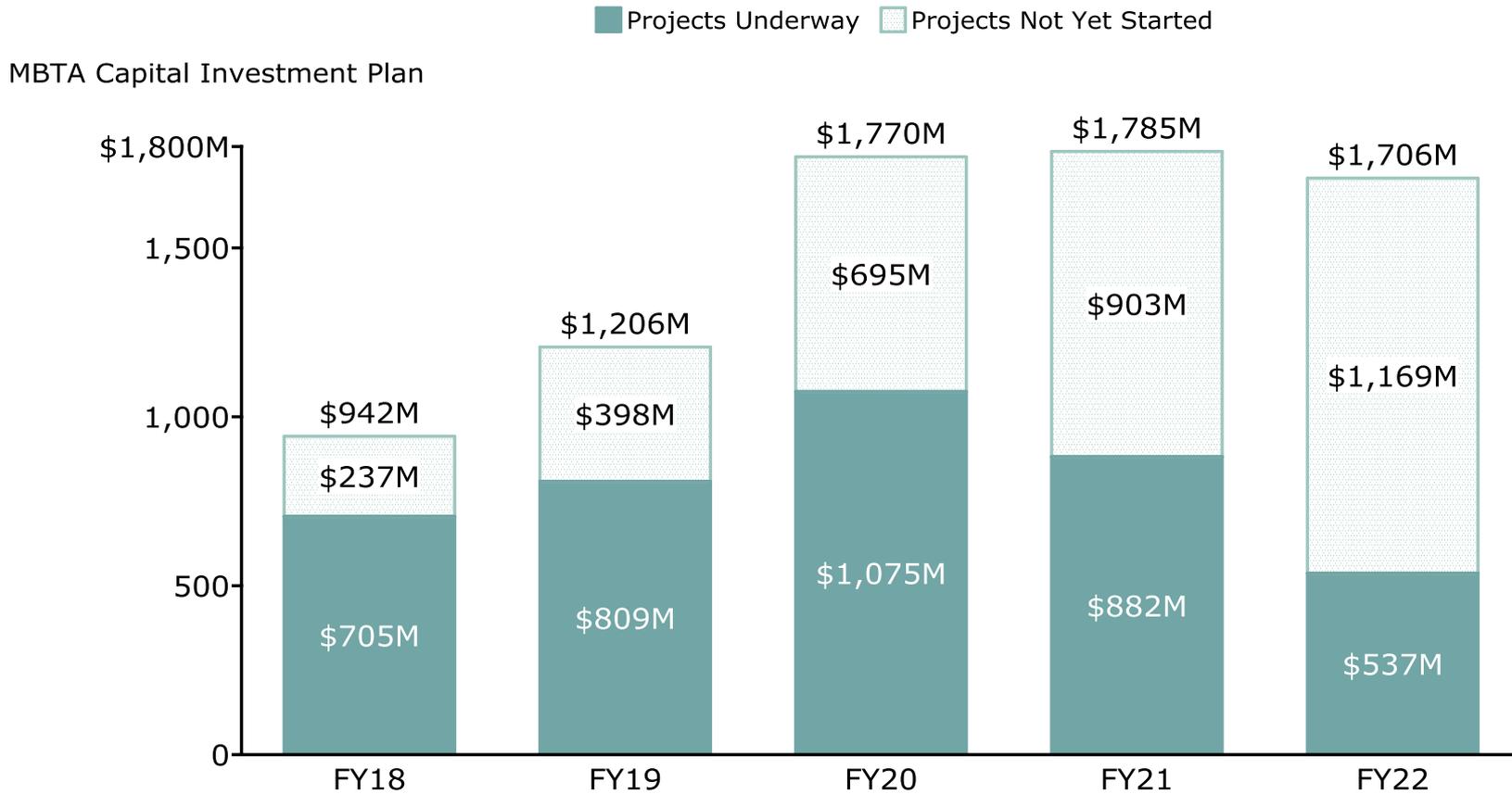
Capital Project Pipeline – major upcoming contract awards in FY18

Project Name (✓ = Awarded this year)	Engineer's Estimate (\$M)
Revenue Vehicles	
Green Line Type 10 (Design)	TBD
Track, Signal, & Power	
Reservoir to Riverside Signal Improvements	\$39M
Commuter Rail Tracks, Ties, Switches (On-Call)	\$30
Transit Track and Tie Replacement (On-Call)	\$25
✓ Red Line Test Track	\$21
Commuter Rail Right of Way Improvements	\$20
Power Improvements (On-Call)	\$20
Systemwide Transformers Phase 2	\$20
Orange Line Direct Fixation	\$15
Green Line Grade Crossings	\$15
SCADA System Upgrades	\$5
Bridge & Tunnel	
Bridge Bundle D/B	\$102
✓ Gloucester Drawbridge Replacement	\$57
Orange Line Tunnel Repairs	\$25
Tunnel Repairs (On-Call)	\$10
Bridge Repairs	\$10
Capacity & System Improvements	
AFC 2.0 Systems Integrator	TBD
Red / Orange Line Signal Upgrades	\$185
Wellington Yard Rebuild	\$105
Cabot Yard Rebuild and Carhouse	\$191

Project Name (✓ = Awarded this year)	Engineer's Estimate (\$M)
Stations	
South Shore Garages	\$85M
Fenway Portal	\$22
✓ Parking & Paving (On-Call)	\$22
Harvard Busway	\$15
Back Bay Ventilation, Package 1	\$3
Knowledge Corridor Canopies	\$3
Facilities	
Roofing Repairs (On-Call)	\$45
North Side Operations Control Center	\$28
Facility Improvements (On-Call)	\$25
Accessibility	
Quincy Adams Elevators	\$8
Bus Stop Accessibility Improvements	\$5
Park Street Elevator	\$3
Federal Programs / Mandates	
Green Line Train Protection	TBD
System Upgrades / Other	
Expansion	
Green Line Extension Design / Build	\$1,080
Chelsea Commuter Rail Station (Silver Line Gateway)	\$22
TOTAL	\$2,261M



Overview of projects underway – FY18-FY22 Capital Investment Plan (CIP)

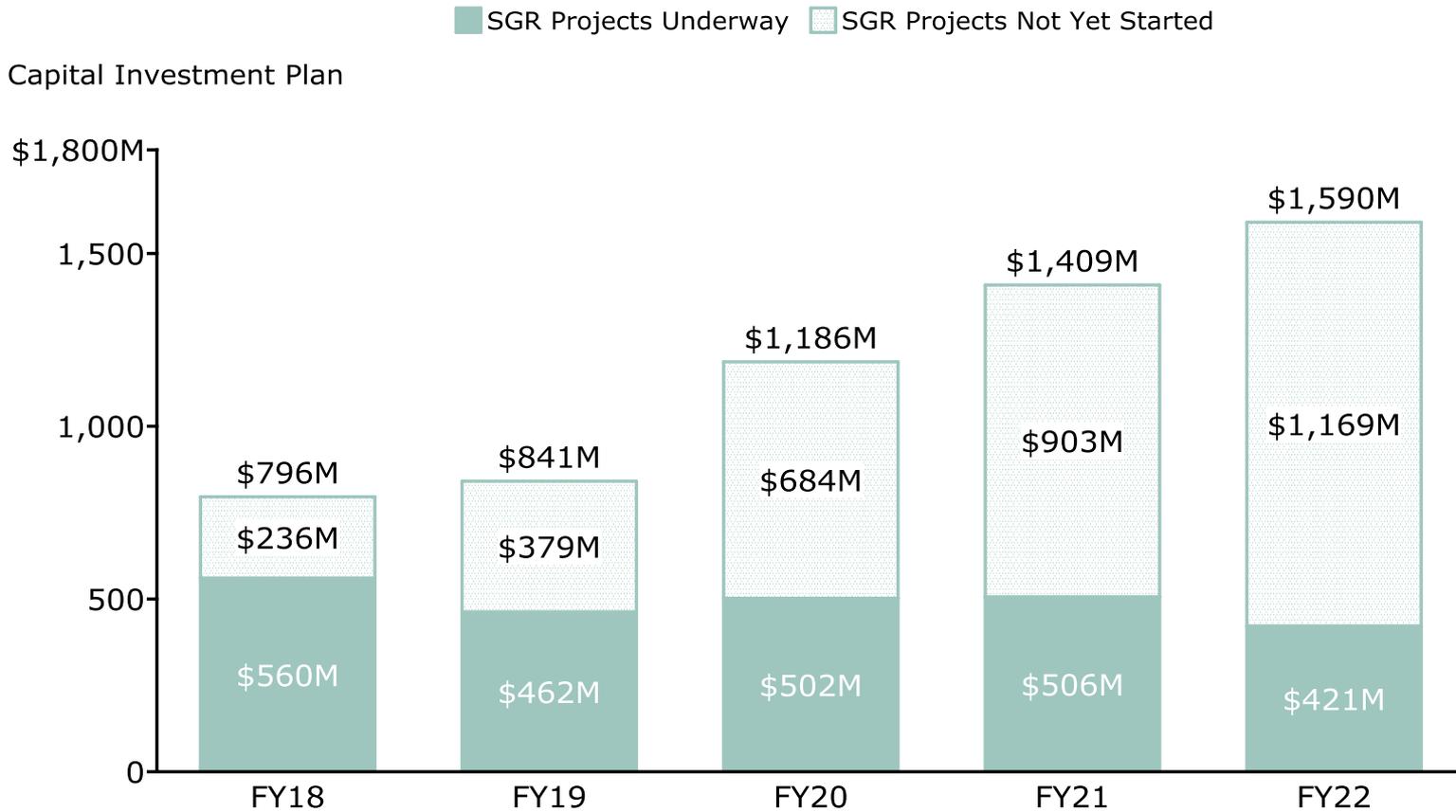


Note: Projects underway are defined as projects with any actual cash spent to date.



Overview of projects underway – FY18-FY22 Capital Investment Plan (CIP) SGR Projects Only

MBTA Capital Investment Plan

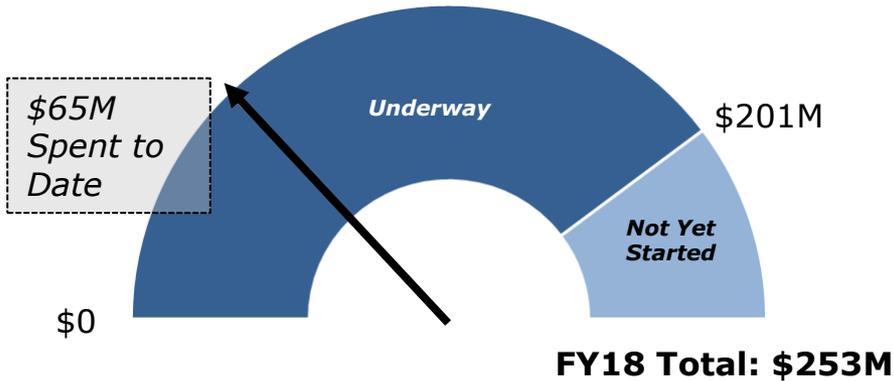


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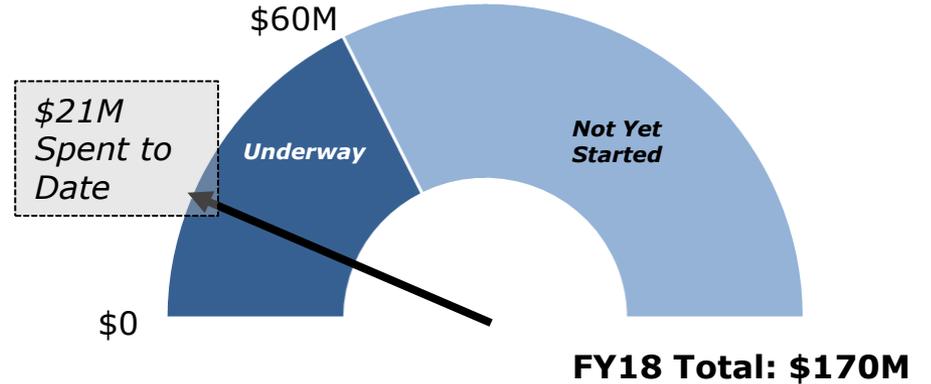


FY18 Progress by Program

Revenue Vehicles



Track, Signal, & Power



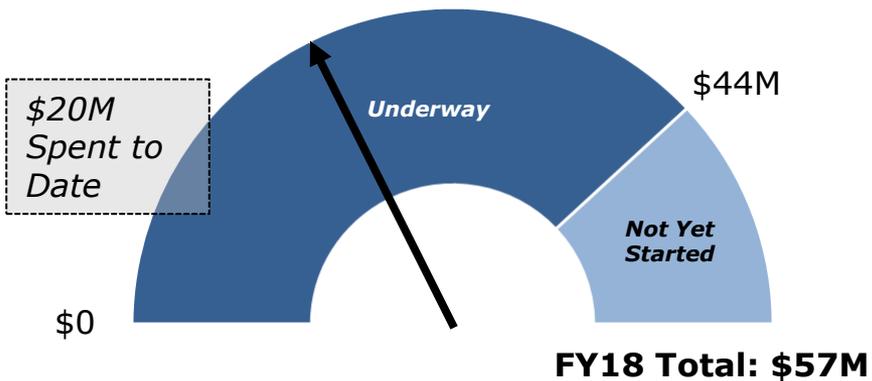
Project Name	FY18 Spend Estimate
Red/ Orange Line Vehicles	\$71.5M
New Flyer 325 Bus Procurement	32.4M
Green Line #7 Car Midlife Overhaul	23.7M
Kawasaki Coaches Overhaul	22.2M
Overhaul of 155 Option New Flyer Buses	14.0M

Project Name	FY18 Spend Estimate
Signal Program - Red/Orange Line	\$8.7M
Energy Efficiency	5.7M
Commuter Rail Track, Ties, Switches (On-Call)	5.1M
Systemwide Transit Tie Replacement (On-Call)	4.3M
Orange Line Traction Power Upgrade	4.3M

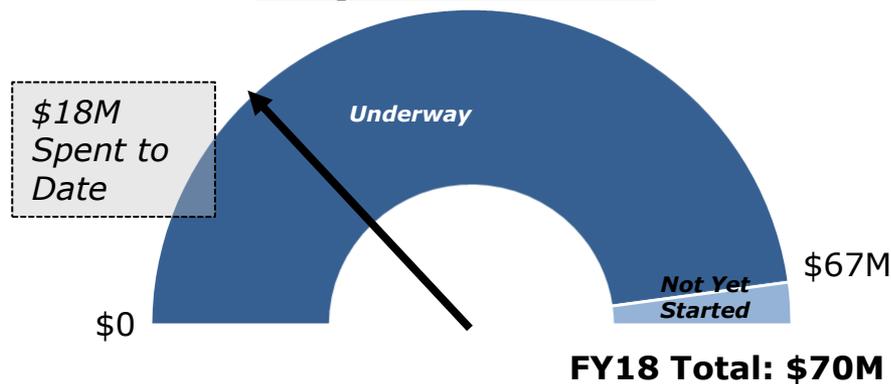


FY18 Progress by Program

Bridge & Tunnel



Capacity & System Improvements



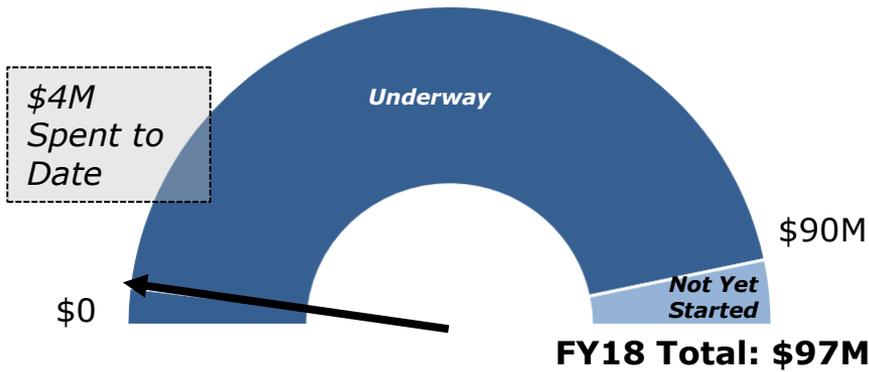
Project Name	FY18 Spend Estimate
Merrimack River Bridge	\$9.9M
Beverly Drawbridge Rehab	6.4M
MassDOT Longfellow Bridge Rehab	6.4M
Tunnel Rehab	5.7M
Bridges - Design	5.6M

Project Name	FY18 Spend Estimate
Red Line / Orange Line Infrastructure Improvements	\$60.2M
AFC 2.0	7.2M
Franklin Double Track & Signal	2.1M
Key Bus Route Improvements	0.6M
Green Line - Real Time Tracking	0.3M



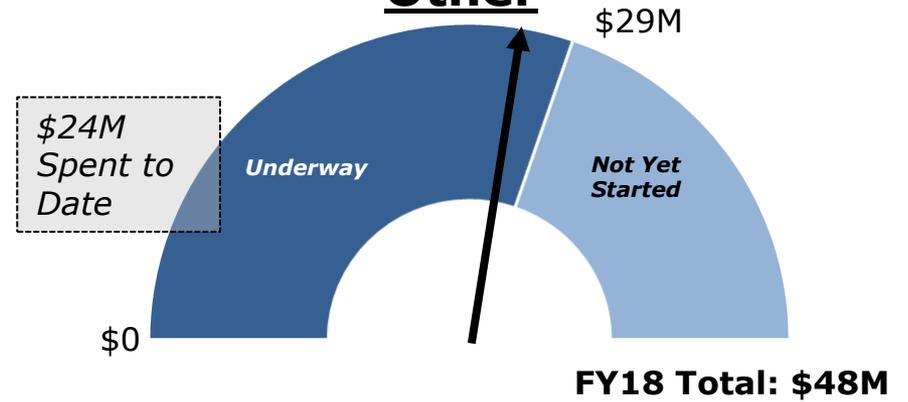
FY18 Progress by Program

Federal Programs & Mandates



Project Name	FY18 Spend Estimate
Commuter Rail Positive Train Control	\$88.6M
Green Line Train Protection	6.7M
Homeland Security Funds	1.3M

System Upgrades & Other

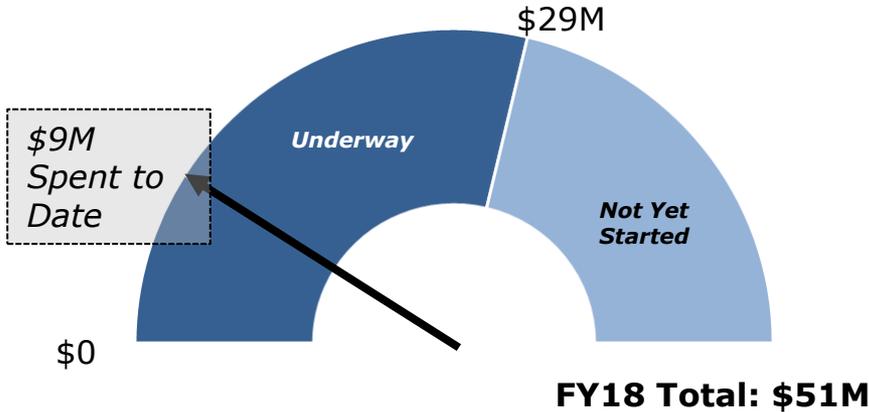


Project Name	FY18 Spend Estimate
Charlestown Bus - Seawall Rehab	\$7.7M
Workforce Modernization Program	6.1M
Commuter Rail Misc. Equipment (Winter Resiliency)	4.9M
System-Wide Radio	4.1M
Hastus Upgrades	3.3M



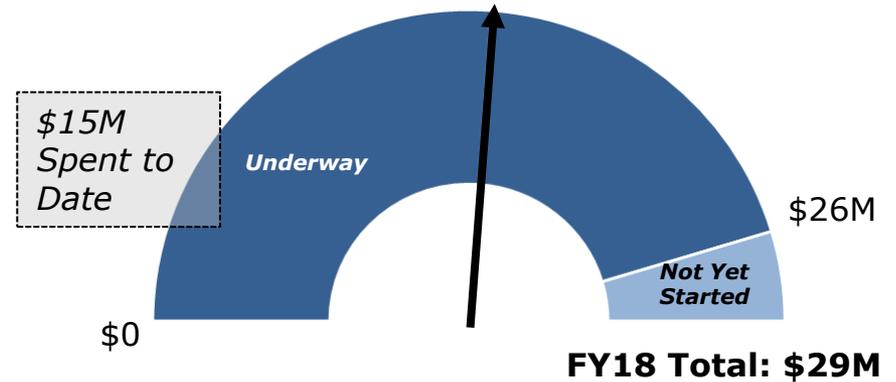
FY18 Progress by Program

Stations



Project Name	FY18 Spend Estimate
Wollaston Station / Quincy Center Garage Demolition	\$10.3M
Parking Lot Paving - On-Call	8.9M
Ruggles Station Upgrade	7.9M
Braintree and Quincy Adams Garage Rehab	6.1M
Commonwealth Ave. Stations Access	4.9M

Facilities

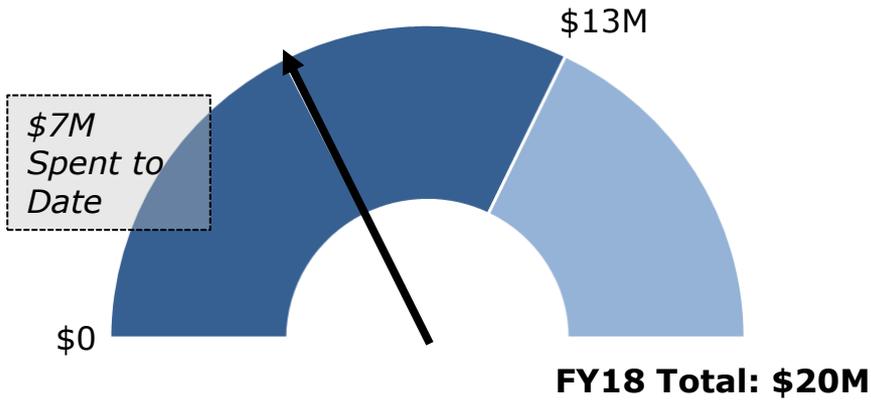


Project Name	FY18 Spend Estimate
Everett Bus - Flowfill Repairs	5.1
Facility On-Call	4.7
Commuter Rail - Mechanical Infrastructure Improvements	3.1
Facility Roof Replacements	2.6
Cabot Maintenance Facility - PCB Remediation	2.5



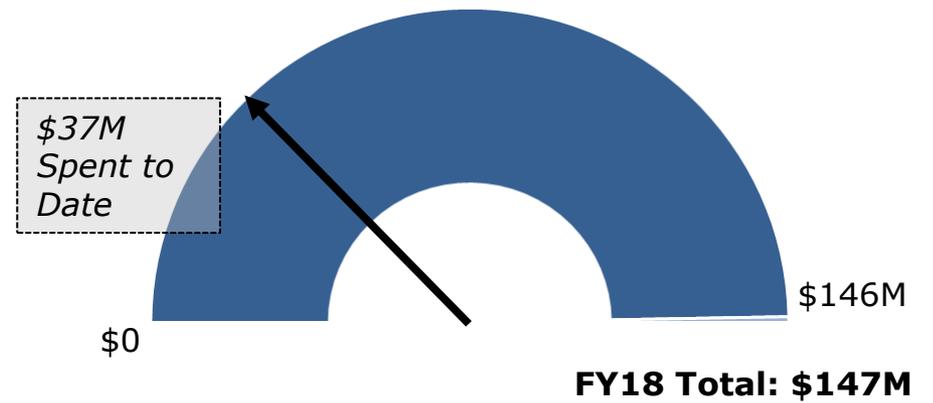
FY18 Progress by Program

Accessibility



Project Name	FY18 Spend Estimate
Elevator Program	\$3.1M
Newton Highlands Green Line Station Accessibility Project	2.2M
Mansfield Station Accessibility	2.0M
Accessibility Improvements	1.8M
Commuter Rail Mini-High Platform Repairs	1.5M

Expansion



Project Name	FY18 Spend Estimate
Green Line Extension	\$130.0M
Fairmount Line Improvements (Blue Hill Ave. Station)	9.3M
Wachusett Extension	3.1M
Boston Landing	2.3M
Silver Line Gateway - Phase 2	0.8M