

General Manager's Remarks

Fiscal and Management Control Board

December 4, 2017



Agenda

- Bus Service Overview
- Capital Projects Update
- Capital Dashboard Update



- Two key takeaways:
 - We need better bus service
 - We need more bus service



- On average weekday, more than 360,000 customers ride the bus
- More than 30 bus routes run at 90 percent capacity or above, during peak periods
- Some improvements made where possible:
 - Routes 7 and 9
- Other routes pose greater challenges for improvements



- Challenges:
 - Competing for space in mixed traffic, during peak
 - Competing with TNCs during off peak
 - Space constraints Albany and Quincy



New strategy: <u>Smart, safe, and flexible bus service</u> Strategic focus areas:

- Smarter routes
- Upgraded garage facilities
- Buy-in for designated bus lanes
- Expanded bus network, more capacity, increased frequency
- Executed within our financial means
- Keep up with our customers' needs as they continue to change



Paving at Banks Place & Oak Grove Station





Scope

 New paving and marking for Banks Place and the Bus Loop at the Oak Grove Rail Station in Melrose and Malden.

Public Benefit

- · Clear markings for motor vehicles
- · Less wear and tear on bus fleet

Schedule

• Phase 1: November 18 – November 26, 2017

Construction Cost

• \$375,000



Green Line Signals: Reservoir & Riverside



Scope

- New signal system along D-branch
- 6.5 miles new catenary and signals
- Replace eight signal houses
- Extensive power upgrade along D-branch

Public Benefits

- Safety
- · Improved System Reliability
- · Reduced downtime during failures

Schedule

 Service diversions will be scheduled in coordination with Green Line track and power programs, beginning in 2018

Construction Cost

• \$40 million



Capital Project Pipeline – major upcoming contract awards in FY18

	ect Name Awarded this year)	Engineer's Estimate (\$M)
Reve	enue Vehicles	
	Green Line Type 10 (Design)	TBD
Irac	k, Signal, & Power Reservoir to Riverside Signal Improvements	\$39M
✓	Commuter Rail Tracks, Ties, Switches (On-Call)	\$24
	Transit Track and Tie Replacement (On- Call)	\$25
	Franklin Double Track	\$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
ļ <u>.</u>	SCADA System Upgrades	<u>\$5</u>
Brid	ge & Tunnel	+102
,	Bridge Bundle D/B	\$102
*	Gloucester Drawbridge Replacement	\$57
	Orange Line Tunnel Repairs	\$25 #10
	Tunnel Repairs (On-Call) Bridge Repairs	\$10 \$10
Cana	acity & System Improvements	<u>\$10</u>
Cape	AFC 2.0 Systems Integrator	TBD
	Red / Orange Line Signal Upgrades	\$185
	Wellington Yard Rebuild	\$105
	Cabot Yard & Maintenance Facility Improvements	\$191

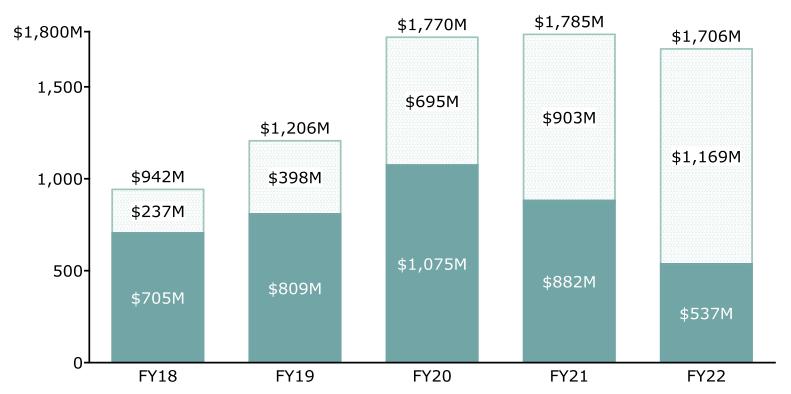
	ect Name - Awarded this year)	Engineer's Estimate (\$M)
Stat	ions	
	South Shore Garages	\$85M
✓	Parking & Paving (On-Call)	\$22
	Harvard Busway	\$15
	Fenway Portal	\$9
	Back Bay Ventilation, Package 1	\$3
	Knowledge Corridor Canopies	\$3
Faci	lities	
	Roofing Repairs (On-Call)	\$45
	North Side Operations Control Center	\$28
	Facility Improvements (On-Call)	\$25
Acc	essibility	
	Quincy Adams Elevators	\$8
	Bus Stop Accessibility Improvements	\$5
	Park Street Elevator	\$3
Fed	eral Programs / Mandates	
	Green Line Train Protection	TBD
Syst	em Upgrades / Other	
Exp	ansion	
✓	Green Line Extension Design / Build	\$1,080
	Chelsea Commuter Rail Station (Silver Line Gateway)	\$22
тот		\$2,267M



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



MBTA Capital Investment Plan



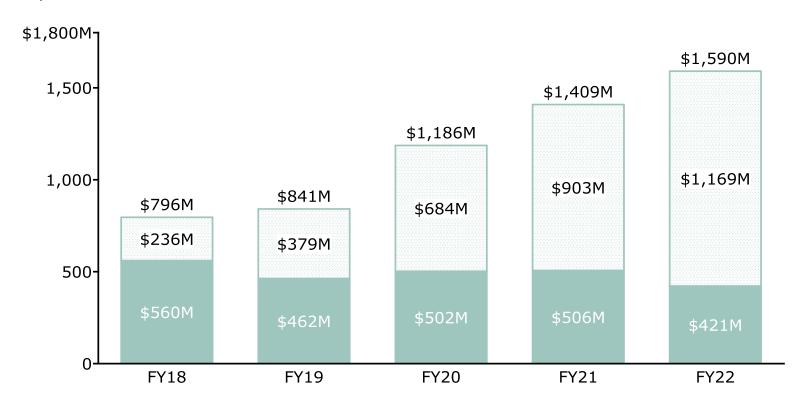
Note: Projects underway are defined as projects with any actual cash spent to date.



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

SGR Projects Underway SGR Projects Not Yet Started

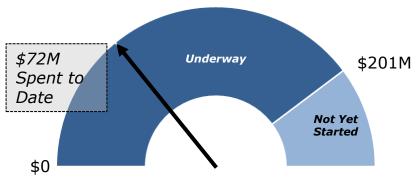
MBTA Capital Investment Plan



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



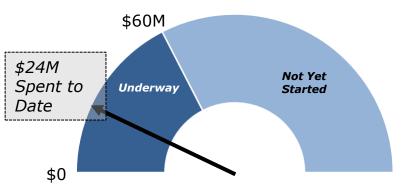
Revenue Vehicles



FY18 Total: \$253M

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

Track, Signal, & Power

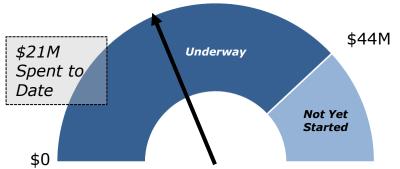


FY18 Total: \$170M

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



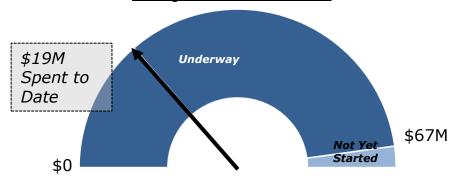
Bridge & Tunnel



FY18 Total: \$57M

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

<u>Capacity & System</u> <u>Improvements</u>

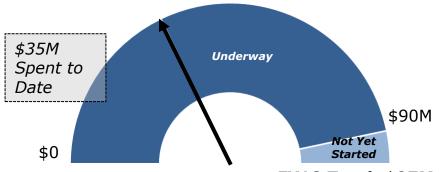


FY18 Total: \$70M

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

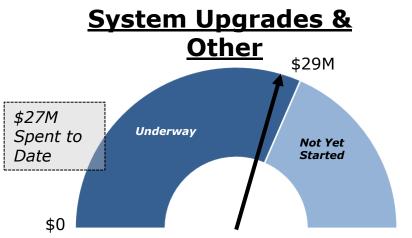


Federal Programs & Mandates



FY18 Total: \$97M

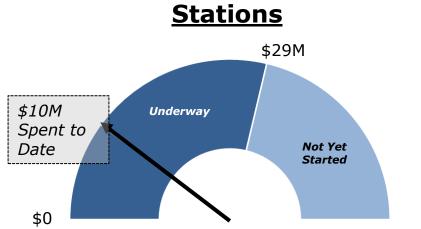
Project Name	FY18 Spend Estimate
Commuter Rail Positive Train Control	\$88.6M
Green Line Train Protection	6.7M
Homeland Security Funds	1.3M



FY18 Total: \$48M

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

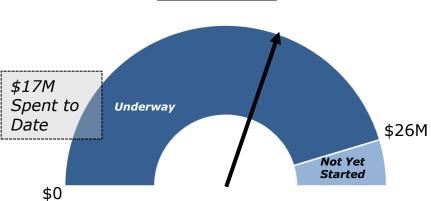




FY18 Total: \$51M

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

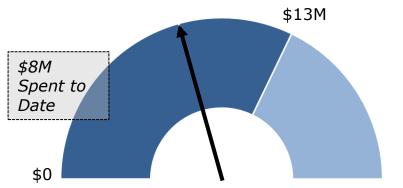


FY18 Total: \$29M

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



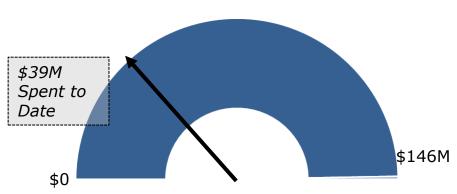
Accessibility



FY18 Total: \$20M

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



FY18 Total: \$147M

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