

GM Remarks

Fiscal and Management Control Board

June 5, 2017



Agenda

- Student Pass Update
- Uber/ Lyft Pilot Update
- Bus Maintenance: Management actions to drive productivity



Student Pass Update

Main Changes made by FMCB in March 2016

- Student Pass available on Fare Vending Machines for \$30
- Student CharlieCards valid for 12 months instead of 10 months

School Year Usage

During this school year, up to 29,000 students a month used a monthly pass

• In the busiest month approximately 1,600 student passes loaded at FVMs and 27,500 school purchased student passes per month

Students use the MBTA more often than the average rider

Median of 42 unlinked trips compared to 36 for all monthly passes

Students also use their cards for stored value

Approximately 18,000 students used stored value between October and April



Summer Student CharlieCard

50,000 middle and high school student passengers will now have access to reduced fares over the summer

- Middle and High School Students should keep the Student CharlieCard provided by their school
- Lost cards can only be replaced by schools
- All students with a M7 CharlieCard can also use their card like a Student CharlieCard in July and August
- In July and August students can use these cards to purchase a monthly Linkpass for \$30 at a fare vending machine (instead of the regular price of \$84.50)
- Students can also use their Student CharlieCard for half priced fares on all modes
- All cards will expire on September 1st and students will received new cards at the start of the next school year



Student CharlieCard (S-Card)



Student Charlie Card with a School Purchase Monthly Pass (M7)



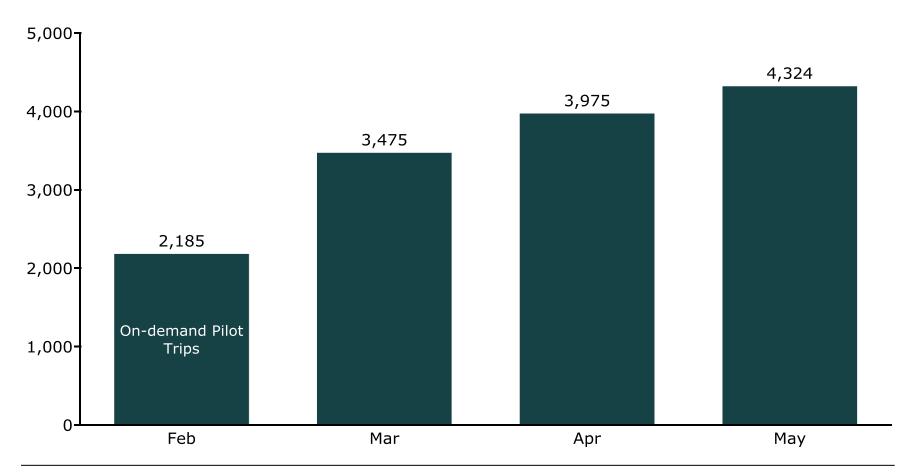
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Uber/Lyft Pilot update – current run rate is 4,300 trips per month At this rate, the Pilot will deliver 50,000+ trips in FY18

On-Demand Trips by Month (2017)





Uber/Lyft Pilot Customer segmentation has driven outreach across multiple channels

In-Person

- Holding events at high-density locations (at MGH on 6/13)
- Running sign-up and help sessions at 10 Park Plaza
- Speaking at conferences and community meetings

Direct Mail

- Sending mailers to all customers to drive awareness

Phone

- Utilizing automated call-outs to efficiently reach customers
- Helping customers sign-up and answering questions

E-mail

- Targeting tech-savvy customers with e-mails already on file
- Educating customers of programmatic changes
- Responding to customer inquiries w/in 24 hours or less

Internet

- Analyzing website traffic data to inform content decisions
- Updating FAQs to keep potential/existing customers informed

Other

- Developing incentives and adjusting fares to drive usage
- Integrating booking features into TRAC call center



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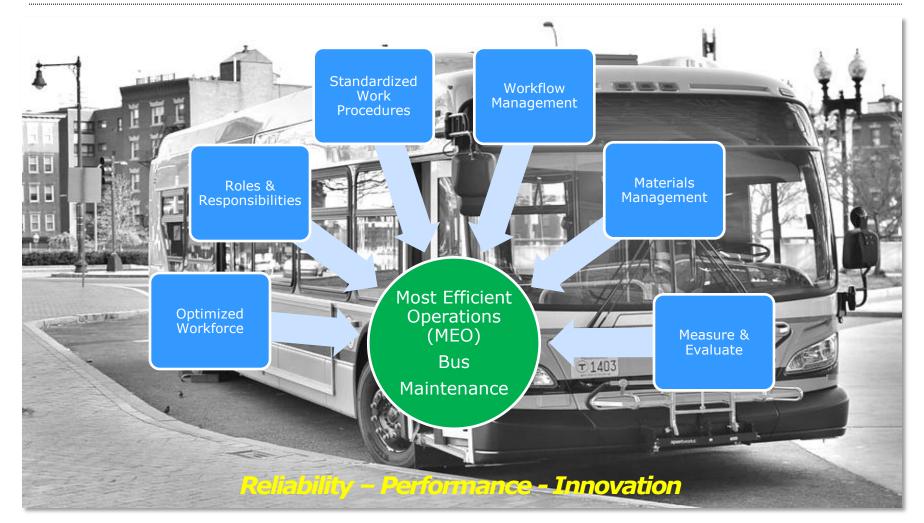


Management actions (L264/Alliance garages)



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Management actions to drive productivity: Applied to all L264/Alliance garages

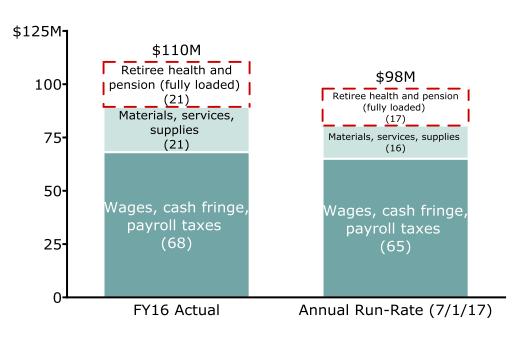






Management actions to drive productivity: \$12.5M savings (11% down from FY16 baseline)

MBTA Bus Maintenance Fully Loaded Cost (L264/Alliance Garages*)



Fully Loaded Savings	(\$12.5M)
Cash Savings	(\$8.8M)

MANAGEMENT ACTIONS



- Streamline workforce with Headcount down 13% new staffing model
- OT down Overtime management
 - Spend down Supply chain (materials) 27%

Headcount* 544 473

Note: "Retiree health and pension (fully loaded)" reflects present value of OPEB/retiree health costs if fully funded, as well as funding pension using a 5.0% discount rate instead of actuarially derived pension fund liability calculation rate of 7.75%

20%

^{*}Cost and headcount figures do not include areas without L264/Alliance presence (Admin. and No. Cambridge Carhouse); includes Everett Bus Shop and excludes both Non-Revenue Shops and fuel costs; Annual run-rate (7/1/17) figures also include wage costs associated with transfer of employees from capital to operating budget at Everett Bus Shop (\$3.2M regular wages, \$0.5M OT, \$1.8M cash fringe)



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Management actions to drive productivity: Right-sizing workforce (effective 5/31/17)

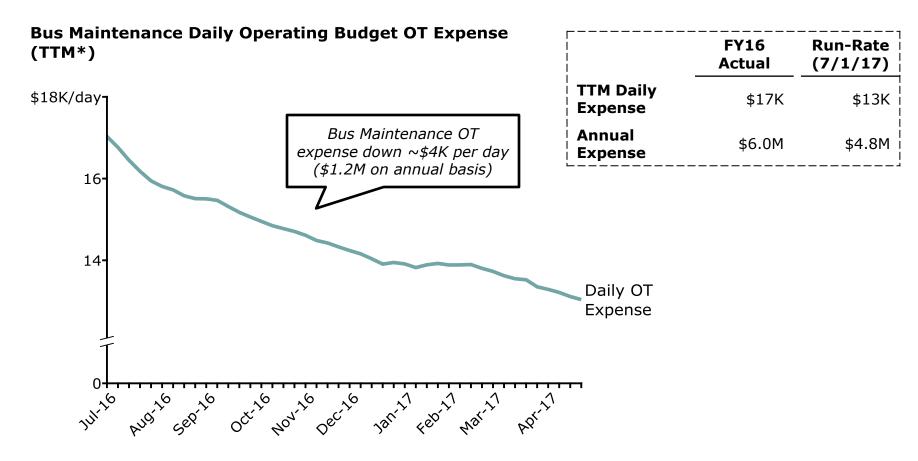
			BUS FACILITIES (LOCAL 264 / ALLIANCE)									
	JOB TITLE	UNION	САВОТ	CHARLES- TOWN	ALBANY STREET	SOUTH- HAMPTON	ARBOR- WAY	QUINCY	FELLS- WAY	LYNN	EVERETT	TOTAL
HEADCOUNT REDUCTION	Superintendent	TEA	0	(1)	0	0	0	(1)	0	0	0	(2)
	Supervisor	L453	(2)	1	0	(1)	(1)	0	0	1	0	(3)
	Foreperson	ALL	(1)	1	0	2	2	2	0	1	0	7
	Machinist	L264	(16)	(6)	(4)	(4)	(4)	(1)	(3)	(4)	0	(41)
	Fueler	L264	(6)	(3)	1	3	(1)	(0)	2	1	0	(4)
	Other	Other	(2)	(2)	1	(1)	(3)	(1)	(2)	(1)	0	(12)
	Everett Positions	BCT, ALL	0	0	0	0	0	0	0	0	(16)	(16)
	HANGE AVG. VS. 4/28/:	 17)	(27)	(11)	(2)	(1)	(7)	(2)	(3)	(2)	(16)	(71)

^{*}Does not include overtime costs; includes cash fringe expenses, retiree health costs and pension costs if funded at 5.00% discount rate Note: headcount reduction based on baseline headcount as of 12/9/2016 versus proposed FY18 headcount Source: MBTA Internal Data





Management actions to drive productivity: Managing overtime



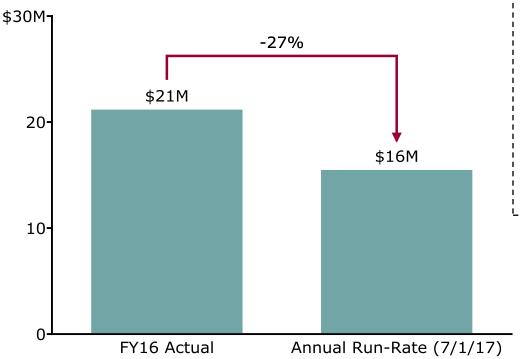
^{*}Trailing twelve months (TTM) computes the average for the past year from a particular point in time Note: "Bus Maintenance" includes 9 bus garages and Everett Bus Shop, but excludes Non-Revenue Shops Source: MBTA Internal Data





Management actions to drive productivity: Managing supply chain to lower materials and services costs

Bus Maintenance Materials, Services, and Supplies Cost* (Operating Budget)



SAVINGS DRIVERS

- New warehousing and logistics vendor (Mancon) managing inventory and parts delivery more efficiently and reducing waste
- 1/3 of MBTA bus fleet brand new and under warranty by August `17
- Electronic Purchase Order (P.O.)
 policy implemented at start of
 FY17 has eliminated unmonitored
 spending on cash vouchers

Note: "Bus Maintenance" includes 9 bus garages and Everett Bus Shop, but excludes Non-Revenue Shops

Source: MBTA Internal Data

^{*}Excludes fuel costs and subway vehicle cleaning costs



Management actions to drive productivity: Fellsway Garage – reorganized and efficient inventory management

Broken MBTA inventory system

- × Disorganized storage
- × No inventory management
- × No standard stocking levels
- × Lack of standard procedures

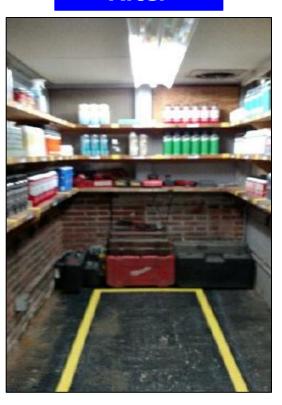
Mancon inventory system

- Organized storage
- Accurate inventory mgmt.
- Optimized stocking levels
- ✓ Standard procedures

Before



After



Improved inventory management improves part retrieval time and garage efficiency





Management actions to drive productivity: Fellsway Garage – inventory accuracy now near 100%

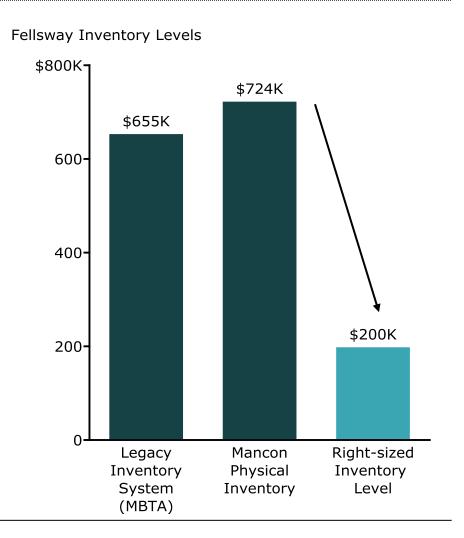
Mancon performed physical inventory of parts in stockroom

- Hand counted 4,473 parts
- 21 days to catalogue all parts and reconcile to MBTA system of record

Under MBTA, Fellsway inventory accuracy was just 31%

New system allows MBTA to:

- Improve mechanic efficiency by providing the correct parts quickly
- Optimize purchasing and stocking levels of critical parts
- More efficient use of working capital

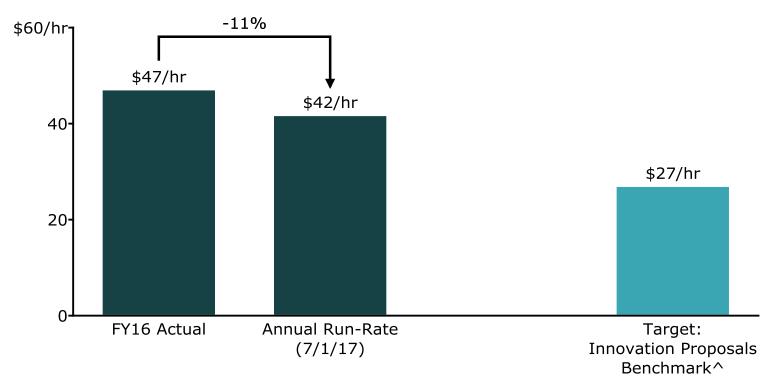




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Bus maintenance cost per revenue hour after management actions is \$42

Bus Maintenance Fully Loaded Cost per Revenue Hour (L264/Alliance Garages*)



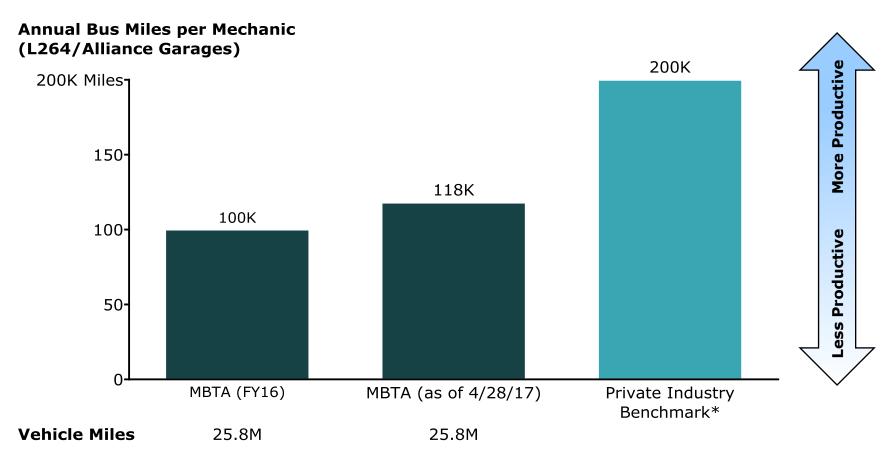
^{*}Cost figures do not include areas without L264/Alliance presence (Admin. and No. Cambridge Carhouse); includes Everett Bus Shop and excludes both Non-Revenue Shops and fuel costs; Annual run-rate (7/1/17) figures also include wage costs associated with transfer of employees from capital to operating budget at Everett Bus Shop (\$3.2M regular wages, \$0.5M OT, \$1.8M cash fringe)

[^]Based on average of innovation proposals received in March of 2017 from First Transit and TransDev to operate maintenance at Arborway and Quincy garages Note: Includes fully loaded retiree health and pension costs



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After right-sizing, key productivity measure (miles per mechanic) is 118K in MBTA garages



^{*}First Transit's innovation proposal (received March 2017) indicated a staffing model based on 200K miles per machinist
Note: "Mechanics" include machinists at bus garages (067400 and 067600) and does not include machinists at Everett Bus; headcount
and mileage figures also do not include L589 rail repairers or the buses they maintain at North Cambridge and Southampton
Source: MBTA Internal Data



Antiquated work rules may impact productivity

LEGACY MBTA OPERATING MODEL	MODERNIZED OPERATING MODEL "WORKING SUPERVISORS"
 No executive non-union managers staffed at the garage level 	Executive non-union supervisors on the floor, driving workflow
 Union supervisors (foremen) on the floor 	All supervisors are "working supervisors"
 Work rules and workplace practices specifically prevent foremen and asst. foremen from performing machinist work 	Supervisors work alongside machinists to complete tasks / pitch in where needed
 ARTICLE XXXIV – BARGAINING UNIT WORK: "A. It shall be Authority policy not to 	 Working supervisors model keeps supervisor skills sharp and helps to balance staffing needs
permit Foremen and Assistant Foremen to do [L264] bargaining unit work, except by way of assistance or instruction."	Supervisors / machinists cross-trained in all tasks



Management Actions - Timeline

- January 1, 2017: Bill Griffiths hired to run MBTA bus maintenance
- **February 1, 2017:** MBTA signs contract with Mancon for warehousing and logistics
- **February 6, 2017:** Mancon begins overnight delivery of parts to bus garages
- March 6, 2017: MBTA receives innovation proposals from private companies indicating potential for 30-40% savings through partnership with industry
- April 1, 2017: Cabot garage reorganization effective
- April 14, 2017: FMCB approves FY18 budget including \$21M annualized bus maintenance savings
- May 31, 2017: Reorganization/right-sizing across rest of garages effective
- September 1, 2017: Target date to implement standard repair times and associated performance management for maintenance staff who don't meet standard

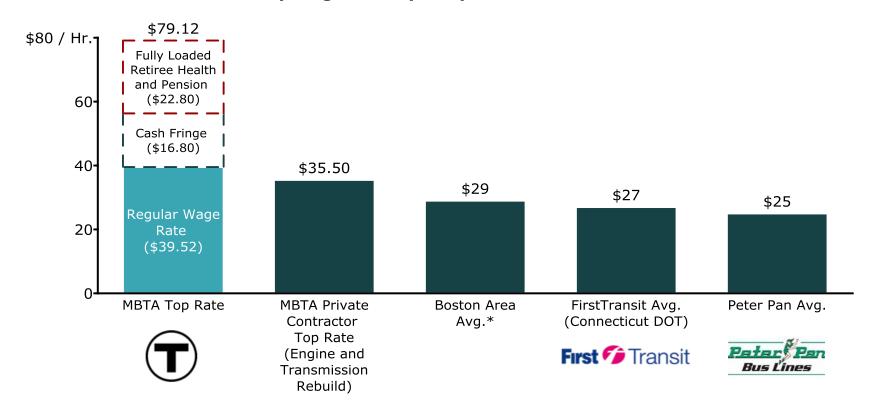


Backup



Public sector premium: MBTA bus mechanics compensation compared to market

Bus and Fleet Mechanics' Hourly Wage Rates (FY17)



^{*}Hourly mean wage of bus and truck mechanics and diesel engine specialists in Boston-Cambridge-Newton region in May 2015

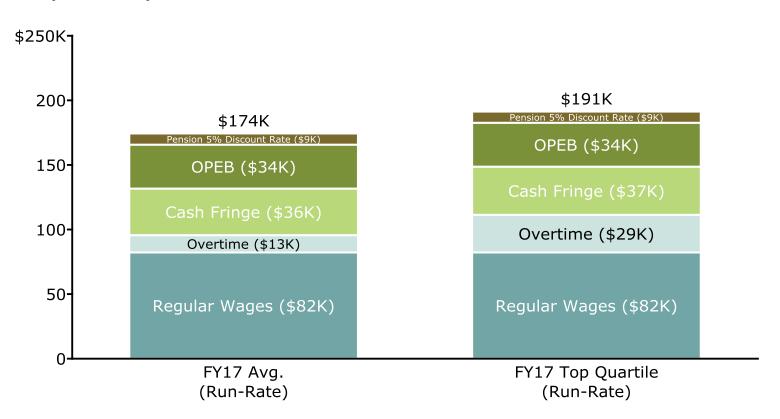
Note: Peer systems (Chicago, NYC, and Washington D.C.) top wage rates are ~10% lower on average than the MBTA top rates

Source: MBTA Internal Data; Bureau of Labor Statistics; Interview with Peter Pan; CT Transit Salaries in CT from Indeed.com; Boston.gov



Average bus mechanic comp: \$174K; top quartile: \$191K

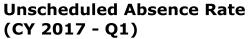
FY17 Compensation per Bus Machinist*



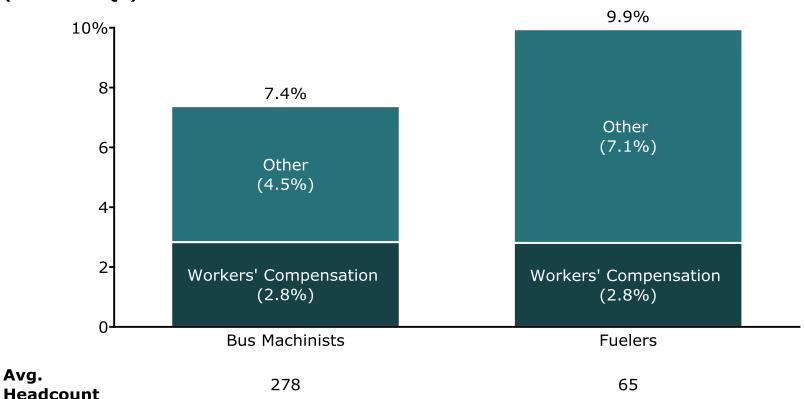
^{*}Reflects compensation for MBTA bus garage machinists (067400); does not include Everett machinists or fuelers Note: "Top Quartile" reflects the average annual compensation of machinists in the 75th-100th percentile of earnings Source: MBTA Internal Data



Absenteeism may impact productivity



Avg.



Note: "Bus Machinists" includes machinists at bus garages (067400 and 067600), as well as Everett Automotive Machinists (057100) Source: MBTA Internal Data