

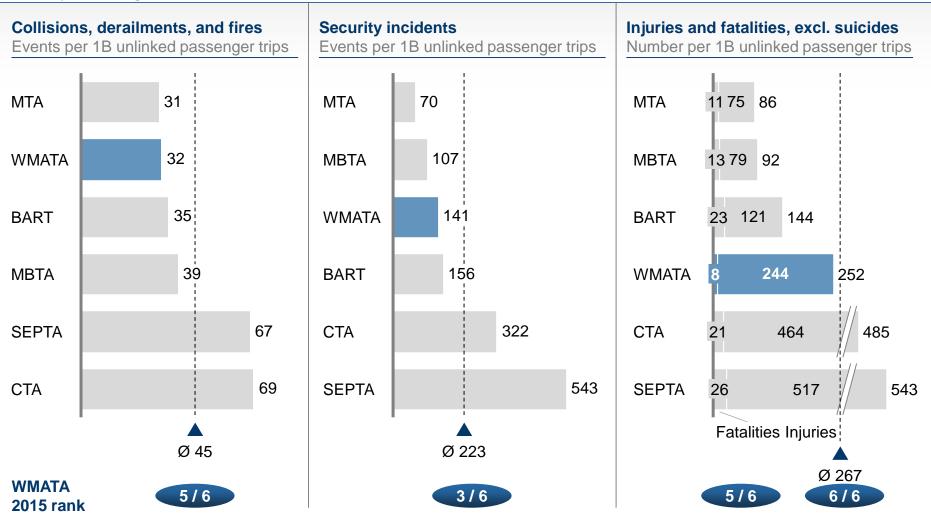
# Finance Committee - benchmarking highlights



# Although safety performance has declined in 2015, Metrorail has better performance than peers on multiple measures for the last 3 years overall

#### Safety and security incidents

January 2013-August 2015

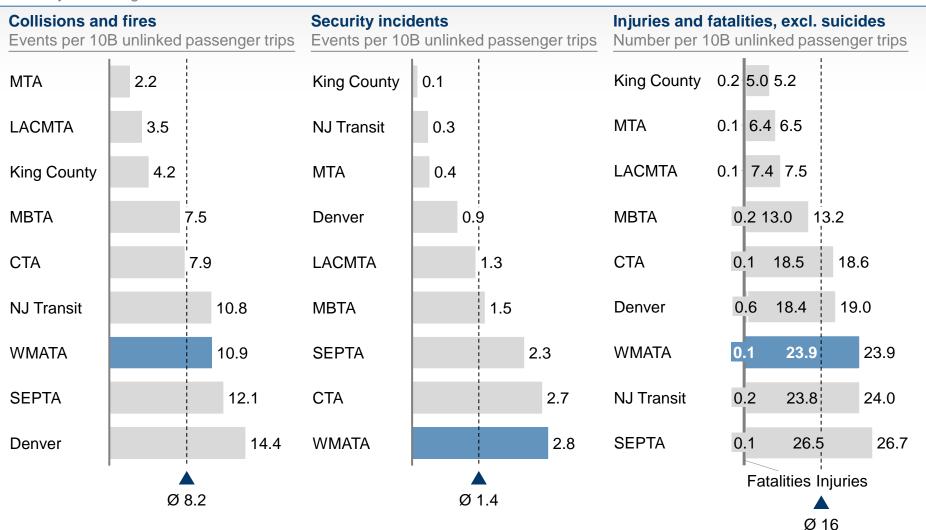


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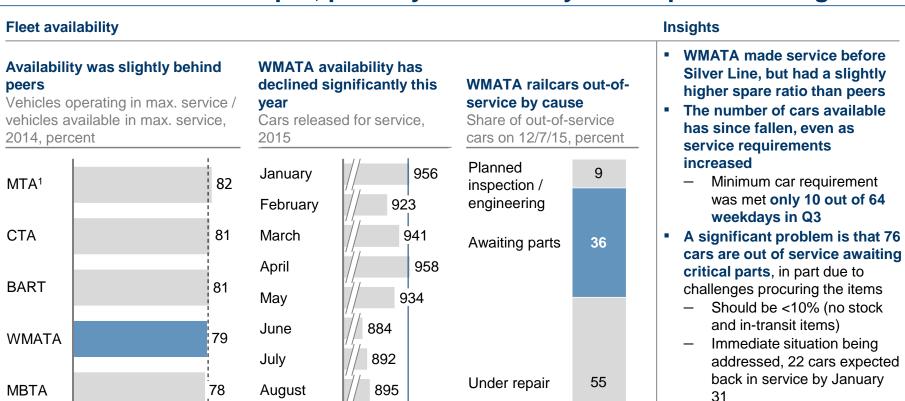
# Metrobus has more safety and security incidents and more injuries than peer bus agencies

#### Safety and security incidents

January 2013-August 2015



# Railcar availability historically lagged peers, and has fallen significantly further behind since April, partially but not only due to parts shortage



1 Due to a data discrepancy in the NTD data, 2014 active vehicles used for MTA (excl. Staten Island Rail)

September

October

2 In October only 922 cars were required for service because Orange/Blue headways were extended in response to the car problems, but the plan is to return to 6 minute headways in January

926

918

Target: 954<sup>2</sup>

Root cause of parts shortage

merits attention

could improve availability

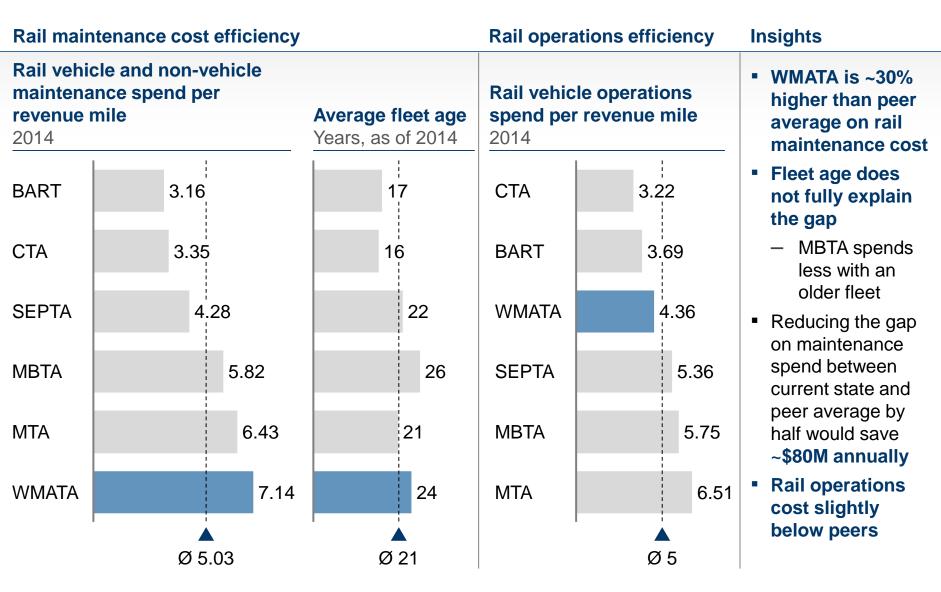
But another 118 cars are outof-service due to repairs. Reducing unplanned repairs

78

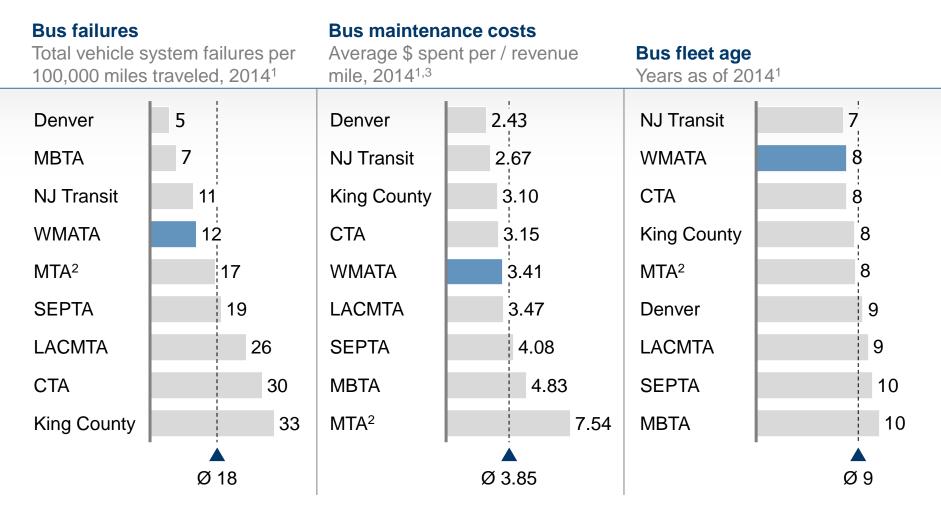
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**SEPTA** 

### WMATA spends more than peers on rail maintenance, but less on rail ops



# WMATA's bus failure rate and maintenance spend are in line with or slightly ahead of peers, which may be partly due to a relatively young fleet



<sup>1</sup> Excludes Commuter Bus

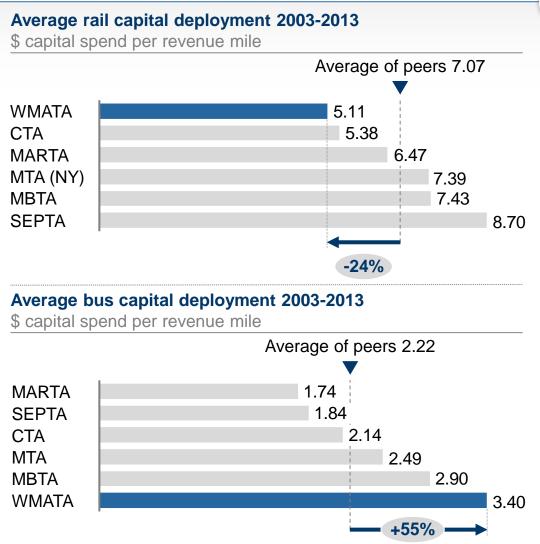
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<sup>2</sup> Combines NYCT Bus and MTA Bus

<sup>3</sup> Calculated as sum of all vehicle and non-vehicle bus maintenance cost divided by bus vehicle revenue

# WMATA spends 24% less capital on rail per revenue mile compared to its major US transit peers; on bus, WMATA is the highest

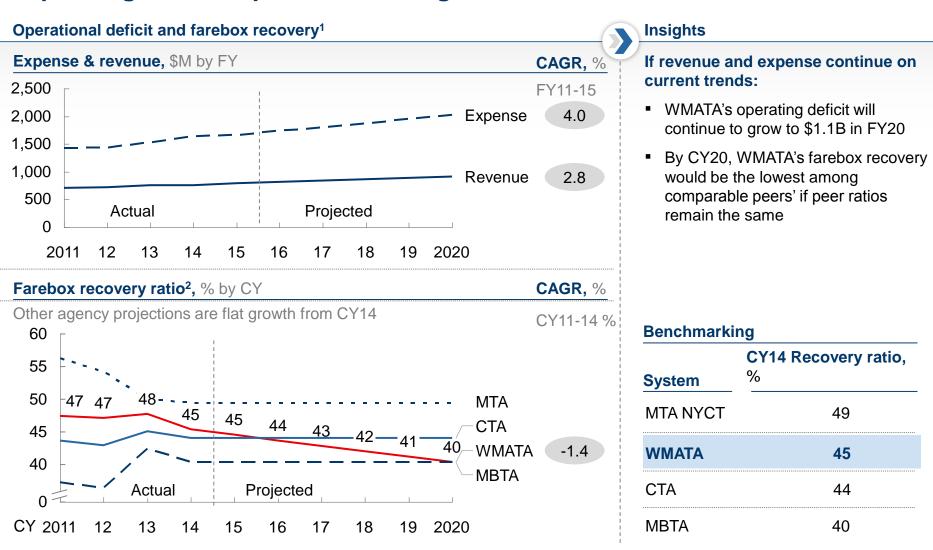




#### **Observations**

- WMATA may be undercapitalizing its rail system - normalizing for system size, as measured by revenue mile, WMATA's rail spend is significantly below peers for the period 2003-13 (24% below peer average)
- The situation would have been better but still below average if WMATA would have spent its entire budget (spend would be \$5.94, still below peer average of \$7.07)
- On the other hand, bus spending exceeds peers (WMATA spends the most of any major national peers). This is driven by the recent investments in fleet
  - Bus replacement was the largest item of WMATA capital spend in FY 2012 (\$110M) and the second largest in FY 2013 (\$70M)

# WMATA's operating deficit is growing and farebox recovery declining as expense growth outpaces revenue growth

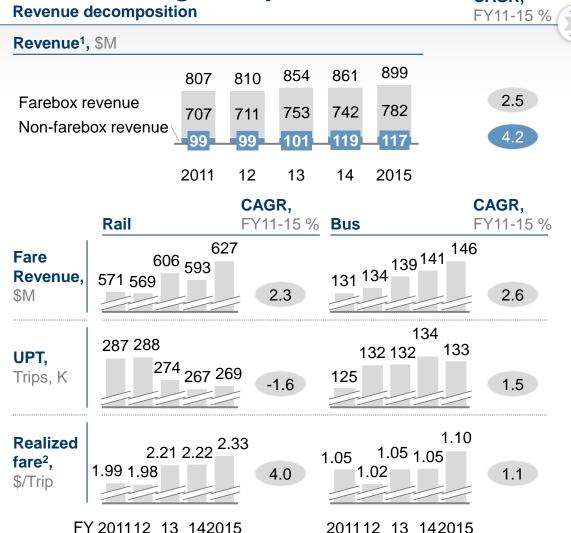


<sup>1</sup> Excluding silver line expansion, which will grow the deficit

<sup>2</sup> Farebox recovery ratio = total fare revenue / total operating expense

FY 201112 13 142015

#### The decline in rail annual passenger trips has limited revenue growth but has been mitigated by fare increases CAGR,



#### **Insights**

- Due to the decline in annual rail trips since FY12, WMATA lost ~\$44M in rail fare revenues in FY15
- Growth in annual bus trips and bus realized fare has led to a ~3% p.a. growth in bus fare revenue

#### **Benchmarking**

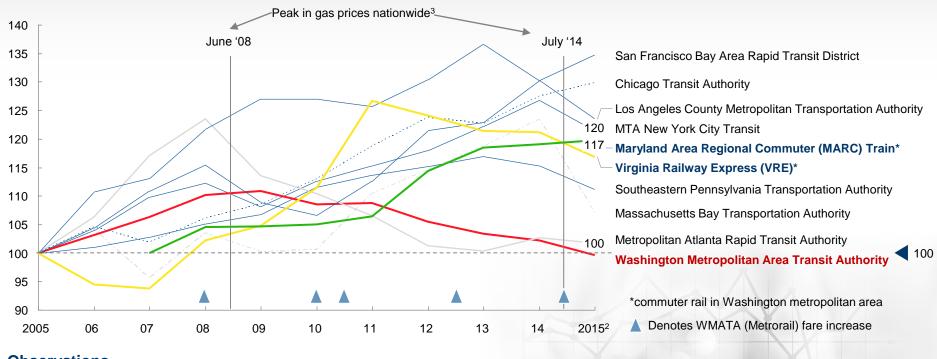
WMATA rail service includes commuter railtype service and fares

System	Rail fare/pass. mile	Bus fare/pass.			
WMATA	0.39	0.34			
СТА	0.20	0.43			
MTA	0.28	0.54			
MBTA	0.33	0.29			

<sup>1</sup> Farebox revenue includes "passenger" revenue; non-farebox revenue includes "passenger-other" revenue and "non-farebox revenue" from payroll data 2 Realized fare = fare revenue / annual ridership

### Despite recent attention, WMATA has seen declining rail ridership for six years; 2015 ridership has been no higher than 2005

Total unlinked passenger trips on Heavy Rail, Index=100 in 2005



#### **Observations**

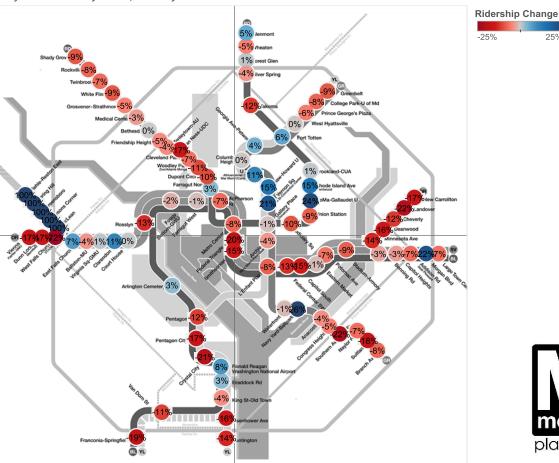
- When normalized for population, 2015 WMATA ridership is only 86% of the 2005 level (see detail on next page)
- Most other agencies have remained above 2005 levels
- Regional commuter rail systems (VRE and MARC) are significantly above 2005 levels and have increased from 3.9% to 4.8% of regional rail activity<sup>3</sup>
- 1 US regular gasoline prices, US Energy Information Administration
- 2 Year to date (compared to 2005 Year to date)
- 3 Sum of MARC, VRE, and WMATA Metrorail trips, CY2009-2014

### Since 2011, demand has declined most acutely at the system's outer

edges and during off-peak times **Analysis** 

### Change in Ridership since 2015

May 2015 vs. May 2011, all-day entries





#### **Observations**

- Ridership losses are spread across all lines and geographic areas, pointing to a secular shift in transit demand
- Stations on the outer edges appear hardest hit (eg, New Carrollton, Landover)
- Off-peak (weekday midday/evening and weekends), comprising 40% of weekly boardings, has contributed 48% of the decline from FY11-FY15

1 Average weekly entries across entire system FY11-FY15 (all months) estimated with Sat, Sun, and weekday boardings (multiplied by 5)

# The reliability decline has been accompanied by declining customer satisfaction and ridership on rail

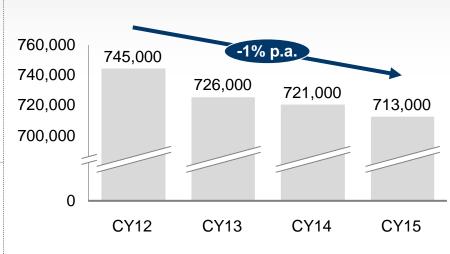
#### **Metrorail customer satisfaction**

% of respondents selecting 4 or 5 on a 1-5 scale

### 83% 79% 71% Likely to recommend 71 68% 56% Reliability 85 84 78 Safety on train **CY13 CY14 CY15**

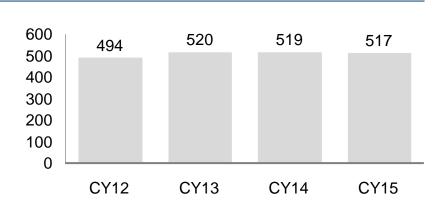
#### **Metrorail ridership**

Average weekday boardings, May



#### Metrorail passenger revenue

\$M, by CY



# Bus presents a more positive story of stability in customer satisfaction, increases in Metrobus ridership and revenue since 2013

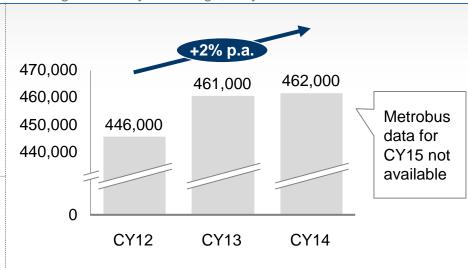
#### **Metrobus customer satisfaction**

% of respondents selecting 4 or 5 on a 1-5 scale



#### **Metrobus ridership**

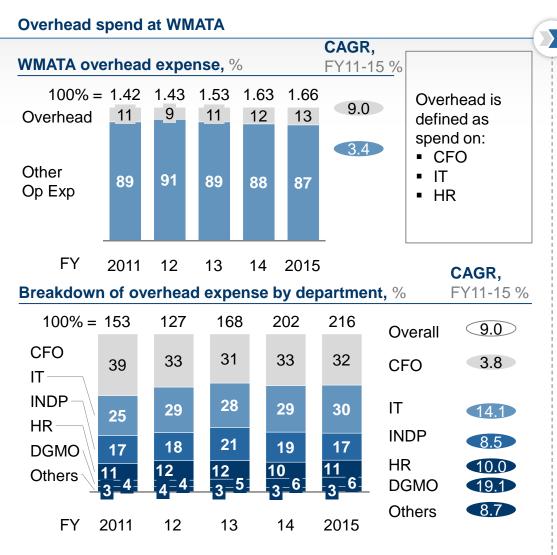
Average weekday boardings, May



#### Metrobus passenger revenue

\$M, by CY 150 123 121 122 Metrobus 115 fare of 100 \$1.75 is below 50 national average of \$2.21 0 **CY12 CY15 CY13 CY14** 

### Overhead is ~13% of operating expense across WMATA



#### **Observations**

- Overhead expense is growing at a faster rate than other operating expense
- The largest amount of overhead expense is allocated to the CFO department in FY2015
- DGMO's overhead expense is growing the fastest at ~19% p.a. since 2011
- WMATA's overhead expense is on par with its peers'

#### **Benchmarking**

System	CY14 overhead expense, %		
MTA	15		
MBTA	14		
WMATA <sup>1</sup>	12		
MBTA	12		

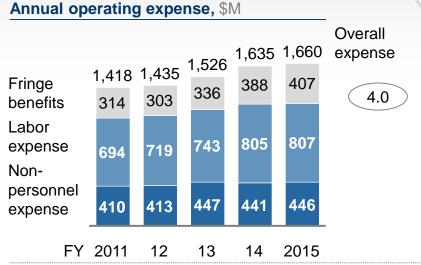
For each support activity (such as IT, procurement, and finance), there are identified ways to cut costs by working more economically and looking for entirely new ways to deliver support.

1 WMATA's NTD overhead expense is used for fair comparison

# The growth in opex is driven by increases in labor expense and fringe benefits, with the latter's growth exceeding peers'









29

27

29

expense

29

#### Insights

- The level of expense growth that outpaces revenue growth (and shrinks the recovery ratio) is coming from personnel expense
- Within personnel expense, fringe benefits are growing much faster than labor (~7% p.a. vs. ~4% p.a.), due to increasing headcount relative to hours worked
- If fringe benefits grew at the same rate as they did at MTA NYCT since 2011, WMATA could have saved ~\$25M from fringe benefits in 2015 (a 6% savings relative to FY15 actuals)

#### **Benchmarking**

		<b>CAGR,</b> FY11-15 %				
System <sup>1</sup>	Personnel expense share, %	Labor exp, %	Fringe benefit, %	Non- personnel exp, %		
WMATA	74	4	7	2		
MTA	73	4	7	6		
CTA <sup>2</sup>	70	3	3	1		

FY 2011 12 13 14 2015

1 WMATA and CTA statistics are based on FY15; MBTA statistics are missing due to data issue CAGR are available

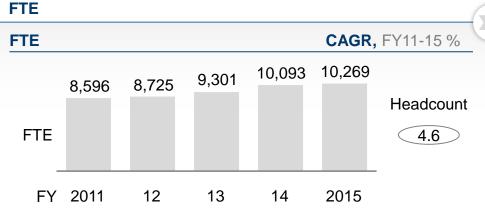
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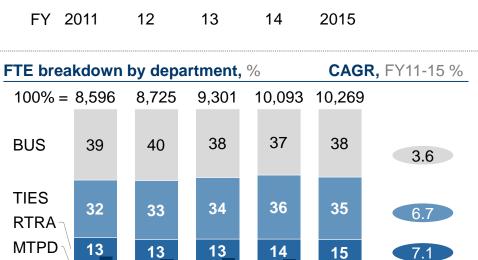
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<sup>2</sup> For CTA only combined labor and fringe benefits

Others

# FTE has grown by ~5% p.a. since 2011 and is concentrated in the BUS and TIES departments





#### **Observations**

- FTE has grown at ~5% p.a. since 2011
- BUS and TIES department constitute 73% of FTE in 2015
- TIES and RTRA departments are growing the fastest at ~7% p.a. since 2011

#### **Benchmarking**

System WMATA <sup>2</sup>	Employee headcount CAGR, FY11-14 %
WMATA <sup>2</sup>	4
MBTA	2
MTA	1
MTA	1

2015

3.7

13

12

2011

14

<sup>1</sup> Operating headcount includes: general administration, vehicle maintenance, non-vehicle maintenance, and vehicle operations

<sup>2</sup> WMATA's headcounts from budget reports are used to compare against peers'

# Realized rail fares are higher than peers' due to variable pricing while realized bus fares are in line due to limited pass options

**Rail fares** 

SOURCE: NTD 2014



### Benchmarking WMATA's current operations in bus and rail against peers

	Benchmark <sup>1</sup>	Overall performance <sup>2</sup>		Rail		Bus		
Category		WMATA	Peers	WMATA	A Peers	WMATA	Peers	
Fiscal sustainabi- lity	Farebox recovery ratio, 2014	45%	44%	62	% 59%	25%	26%	
	Realized fare per trip	N/A		\$2.	.33 \$1.15	\$1.10	\$1.08	
	Ridership percentage change, CAGR 11-15	N/A		(1.	6%) 1.2%	1.5%	(1.0)%	
	Staffing level trend, passenger trips/FTE CAGR, FY2011–15	N/A		(4%	%) <i>N/A</i>	(4%)	N/A	
	Labor expense growth, FY2011-15	4%	3.5%	4.3	3.8%	0.8%	0.7%	
	Fringe benefit expense growth, FY2011-15	7%	4.6%	5.4	1% 5.7%	1.3%	2.4%	
	Headcount growth, FY2011-15	4.6%	1.4%	5.7	<b>7</b> % 2.4%	2.9%	(1.2%)	
	Overhead exp as % of total op exp, 2014	11.6%	13.8%	6.2	2% 6.4%	3.3%	4.6%	
Service reliability	Fleet availability <sup>3</sup>	N/A		79	% 80%	87%	82%	
	Maintenance cost per revenue mile	N/A		\$7	.14 5.03	\$3.41	3.85	
	Average fleet age, years	N/A		24	21	8	9	
	Capital spend per revenue mile, 2003-2013	\$4.46	\$4.58	\$5	.11 \$7.07	\$3.40	2.22	
	Capital planning process	WMATA lacks a target-based capital strategic plan and and independent capital decision-making authority						
	Capital portfolio optimization	Project priortization is not centralized and does not use clearly defined evaluation criteria						
Safety	Collisions derailments and fires by service size rank, Jan 2013-Aug 2015	N/.	Α	2/6	N/A	7/9	N/A	
	Security incidents per by service size rank	N/	Α	3/6	N/A	9/9	N/A	
	Total injuries + fatalities by svc. size rank	N/.	A	4/6	N/A	7/9	N/A	

<sup>1</sup> Data are for calendar year period, unless otherwise noted

<sup>2</sup> Some overall statistics are on calendar year schedule

<sup>3</sup> Fleet availability has declinedby 6% Oct 2014-Oct 2015

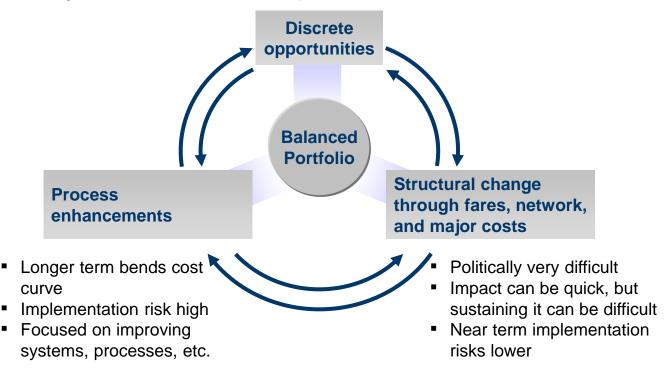
### In order to address these core challenges, experience suggests the transformation has to be a portfolio of initiatives

### Objectives of the transformation...

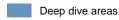
- Regain the trust of WMATA customers by improving safety and reliability which creates the space for bigger, bolder initiatives
- Regain the trust of the jurisdictions by demonstrating short and long term improvements in the financial position which demonstrates capability to invest
- Launch reforms of critical business processes (e.g. financial management systems and procurement)

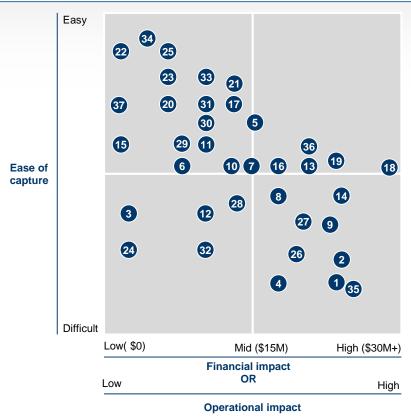
#### ...imply a balanced portfolio

- Relatively quick impact, but typically \$20-30M per initiative
- Requires focus and execution
- Savings can be re-invested in other priorities



### Expert interviews, experience from other systems and internal discussions generated a wide range of ideas





- 1 Retool worker's compensation process
- 2 Adjust pensions and OPEB commitments
- 3 Reduce or outsource other fringe benefit administration
- Better manage overtime expense through clear policies and enforcement
- 5 Reduce fare evasion on bus
- 6 Improve data quality and integration
- Implement a quality management system (QMS)
- (8) Move HQ building
- Automate HR business processes and Reduce TCO
- 10 Outsource medical services
- 11 Set up asset management information system
- 12 Create account based ticketing system
- Monetize high value bus maintenance real estate
- (14) Monetize parking real estate
- 15) Increase parking payment yield
- 16 Transform paratransit delivery
- 17 Increase service on crowded bus routes
- Transform capital planning process (strategy to execution)
- 19 Implement advanced acquisition practices in select categories
- 20 Increase concessioning at rail stations
- Manage grade structure through attrition of workforce

- 22 Increase advertising revenue
- 23) Transform customer experience
- Create Smartrip partnership with credit card companies
- 25 Introduce promotions/discounts for customers
- Adjust service rail to match supply to demand
- Adjust service on underutilized bus routes
- Reform financial management and process
- Reduce bus maintenance spend through refurbishing facilities
- 30 Reduce overruns on select capital projects
- 31 Optimize facilities footprint
- Adjust bus fare policies while targeting support to lower income households
- Undertake comprehensive review of spans and layers in the organization
- Create a WMATA app (potentially through competition)
- Transform / lean railcar maintenance process
- 36 Outsource selected auxiliary services(e.g., bus maintenance, facilities cleaning, non revenue fleet maintenance)

### The MTA's turnaround shows how an initiative portfolio can drive change

#### **Situation**

- Faced with a dramatic drop in revenues during the 2008 financial crisis, the MTA had to reduce costs
  - Dedicated MTA taxes generated nearly \$1B less in revenues compared to plan and fare revenues fell by \$200M
  - Costs increased >\$200M from an unfavorable labor arbitration award and increased costs
  - By statute, the MTA is required to operate on a "self-sustaining basis," including a balanced budget each year
- MTA needed to improve costs and build credibility with legislature, proving itself a good steward of public funds; to build the case for new tax revenues in a bad economy

#### Response

- Reduced the size of the capital program by \$2B and achieved \$525M in annually recurring operating cost savings in the first year
- Operating savings initiatives were designed around several principles
  - Mix of quick wins, incremental, and transformative changes
  - Visible to consumers
  - Share the burden across stakeholders
  - Balance with strategic investments for customers
- Used a broad set of levers
  - Fare increases, service reductions, layoffs, and wage freeze
  - Rebid employee healthcare
  - More efficient Paratransit provision
  - Reduced overtime
  - Consolidated back-office functions
  - Strategic sourcing
  - Rationalized office space
- Communicated its success to the public, legislature, and labor

#### **Outcome**

- State increased support by \$1.7B p.a. with a new dedicated tax and fees
- MTA has not stopped pursuing capital and operating savings
  - Capital program reduced another \$2B in 2011 and proposed a lean program for the next 5 years (recently approved and funded)
  - Recurring operating savings at \$1.3B annually in 2015, with targets rising to \$1.8B in 2019 from new, specific initiatives

