



**Customer Service, Operations and Security Committee**

**Action Item III-A**

**November 16, 2017**

**Q1/FY18 Vital Signs Report**

Washington Metropolitan Area Transit Authority

## Board Action/Information Summary

☐ Action ☒ Information

MEAD Number:  
201902

Resolution:  
☐ Yes ☒ No

### TITLE:

Vital Signs - Q1/FY18 Report

### PRESENTATION SUMMARY:

As a regional transportation system, Metro's system-wide performance is captured in the Vital Signs Report. The Vital Signs Report provides analysis of a focused set of Key Performance Indicators (KPIs) that monitor long-term progress in delivering quality service.

### PURPOSE:

Vital Signs communicates the transit system's performance to the Board of Directors on a quarterly and annual basis. The public and other stakeholders are invited to monitor Metro's performance using a web-based scorecard at [wmata.com](http://wmata.com).

Vital Signs provides systematic, data-driven analysis of KPIs by answering three questions: Is Metro achieving its four strategic goals? Why did performance change? What actions are being taken to improve performance? The answers reveal the challenges and complexities of the operation.

A balanced scorecard approach is used in Vital Signs, but the focus is on Metro's core business of quality service delivery to customers. Mission-critical functions such as safety, security and finance provide in-depth reporting separately to the Board.

### DESCRIPTION:

#### Key Highlights:

During the first quarter, better performance was achieved in FY18 than FY17 due to the actions completed in the General Manager/Chief Executive Officer's Back2Good plan. Metro customers are experiencing fewer train offloads, better on-time performance, and fewer unscheduled delays as a result of new railcars, improved maintenance programs, and schedule enhancements.

This quarter, nine KPIs or key drivers met or exceeded expectations:

- Bus On-Time Performance
- Rail Customer On-Time Performance
- Rail Guideway Condition
- Crime
- Rail Fleet Reliability
- Elevator Availability

- Escalator Availability
- Budget Management
- Capital Funds Invested

Three KPIs or key drivers nearly met expectations:

- MetroAccess On-Time Performance
- Ridership
- Bus Fleet Reliability

One KPI did not meet expectations:

- Customer Injuries

### **Background and History:**

Metro has established many of the performance-based planning and programming elements necessary to become a more strategic, accountable and transparent organization.

In 2013, the Board of Directors adopted WMATA's mission, vision and four goals for building a transit system that supports a competitive region:

- Build and maintain a premier safety culture and system
- Meet or exceed expectations by consistently delivering quality service
- Improve regional mobility and connect communities
- Ensure financial stability and invest in our people and assets

These strategic goals define where Metro wants to go and provide guidance for decisions across the agency. The Office of Performance has worked with departments across the agency to develop business plans with measures and key actions that demonstrate departmental contribution to WMATA's mission. Performance staff work as internal consultants with leaders in operations to conduct in depth analyses and promote data-driven decision making across the agency.

### **Discussion:**

#### **Vital Sign Report Enhancements**

##### Customer-Focus

This Vital Signs Report begins with the KPI customer satisfaction, illustrating the main motivators influencing customer perceptions of our service. The report also highlights performance for each mode – Bus, Rail and MetroAccess – and actions Metro is taking to improve performance. In addition to measures on customer injuries and crimes, ridership is now featured prominently.

The Performance Office continually strives to improve the performance measures included in this report to ensure they reflect the customer experience. For example, Rail Customer On-Time Performance became a KPI in 2017 as Metro began to focus

improvement efforts to improve rail customer travel time. Maintaining assets in a state of good repair ensures the reliability of transit services, a key driver of satisfaction. In 2017, two new measures were introduced to address performance of Metro's rail infrastructure: Guideway Condition (a FTA Transit Asset Management measure) and a more comprehensive Rail Infrastructure Availability measure. The availability measure will be an important tool to measure Metro's progress delivering the track preventive maintenance and capital renewal programs.

### Aligns to Fiscal Year

At the Board staff's request, this Q1/FY18 Vital Signs Report now aligns performance results with Board decisions on budget investments that are made on a fiscal year basis which aligns to operating departments ability to demonstrate the impact of investments on performance, making the case for resources. Additionally, FTA requires fiscal year targets for new Transit Asset Management measures. This move will align the target-setting timeframe for all publically-reported measures.

### **On-Time Performance**

Metrobus – OTP improved three percent compared to Q1/FY17, the best first quarter result since the VSR began in 2010. A one percent improvement in buses arriving more than two minutes early and a two percent improvement in buses arriving more than seven minutes late contributed to the 79 percent OTP result. Buses traveled 7,633 miles on average before requiring repair, demonstrating three percent better reliability. New schedules and increased use of technology keep buses on time and replacement of 100 buses each year maintains reliability.

Metrorail Customers – Rail customer OTP improved to 88 percent during the first quarter of FY18, thanks in large part to the implementation of a realistic schedule, the railcar "get well" plan and the rail infrastructure preventive maintenance and capital programs. Better railcar performance, exceeding expectations by reaching 86,814 miles between delays, also resulted in 46 percent fewer offloads and 80 percent fewer missed dispatches. On average, 95 percent of escalators and 97 percent of elevators were available, beating expectations and Q1/FY17, providing solid evidence of Back2Good escalator/elevator investments. As promised in Back2Good, new railcar maintenance strategies and continued acceptance of additional 7000-Series trains will continue to benefit our customers.

MetroAccess – During Q1/FY18, more MetroAccess vehicles arrived on time than in Q1/FY17. However, with the abatement of driver shortage, a substantial number of newly hired operators experienced a learning curve causing the Q1/FY18 OTP to fall two percentage points short of 92 percent. The award of the Abilities-Ride Program and additional paratransit service providers will improve reliability.

### **Rail Infrastructure**

In mid-August, Metro put in place a 35 mile per hour speed restriction covering almost 23 miles of track through the downtown core of the system to reduce trains' traction power draw while Metro analyzes power optimization used to propel trains. Because most trains do not travel above 35 miles per hour on these segments, these restrictions had a minimal impact on customer on-time performance.

Guideway Condition – The fiscal year began with an average 4.4 percent of track, under

speed restriction during the FTA-mandated period of 9 AM the first Wednesday of each month, equating to 10.4 of 239 miles out of service. The new, aggressive preventive maintenance and capital programs, with longer evening and weekend work windows, will cut unplanned delays within the next few years.

Infrastructure Availability – Improved track condition resulted in 18 percent fewer inspector-identified speed restrictions in Q1/FY18. Other speed restrictions were resolved within 36 hours due to the overall improved track condition. An average of 27 single-tracking events took place each month, most being resolved in less than hour. Therefore, track was available 95 percent during all revenue hours.

### **Budget Management**

Aggressive management cost-cutting actions and controls permitted expenses to be \$43 million under budget. However, revenues were below budget by \$14 million, due primarily to below forecast ridership. This lead to a four percent operating budget surplus in total.

### **Capital Funds Invested**

The capital funds invested met expectations at 18 percent for Q1/FY18. Investments furthered Back2Good efforts through the acceptance of new 7000-series railcars, rehabilitated elevators and replaced escalators, new MetroAccess vehicles and bus maintenance facilities.

### **Safety and Security**

Crime – Part I crime occurrences were 75 fewer than expected instances, resulting in a rate of 4.8 crimes per million passengers, a 19 percent decrease compared to the same period in FY17 — led by a 25 percent decrease in crimes against property, driven by a 10 percent decrease in larcenies and one percent decrease in crimes against persons. Sustaining the fare evasion initiative on rail and bus is a key action to reduce crime and reduce assaults on operators.

Safety – Customer injuries increased slightly from Q1/FY17, with improvements experienced in MetroAccess and Rail. The increased number of incidents resulted in a rate of 2.0 customer injuries per million passengers. To enhance safety, Metro has undertaken numerous initiatives including targeted safety messages and upgraded lighting in stations.

### **Ridership**

Overall Rail ridership stabilized at levels consistent with last year. Rail peak ridership is close to pre-SafeTrack levels, due in part to improved peak reliability and real estate development, but off-peak times continue to decline. The latest fare increase has injured bus ridership across lines and times of day, suppressing many other effects besides distinct service changes. The SelectPass program is inducing significant ridership and revenue.

Q1/FY18 ridership was 74.7 million passenger trips, three percent below forecasted ridership. Average rail ridership missed forecast by three percent with weekday ridership increasing one percent and weekend ridership decreasing one percent, both over the same period last year ending the quarter at 44.9 million. Bus passenger ridership was four percent below forecast at 29.2 million for the quarter, declining in both weekday and weekend trips over the previous year. While MetroAccess average

ridership was consistent with the same period in FY17; the Q1/FY18 ridership of 0.6 million fell two percent short of the forecast.

### **Customer Satisfaction**

Bus customer satisfaction remained steady at 76 percent for the quarter, which is statistically largely unchanged since early 2016. This plateau is consistent despite a slight improvement in bus reliability. On the other hand, Rail customer satisfaction improved with the number of customers that feel Metro is getting better more than doubling from this time last year. Rail customers' satisfaction increased to 74 percent from 66 percent at Q1/FY17. The change is attributable primarily to improved rail infrastructure and vehicle reliability.

### **FUNDING IMPACT:**

There is no impact on funding for reporting this information item.	
Project Manager:	Andrea Burnside, Acting Chief
Project Department/Office:	Office of Budget, Performance and Planning

### **TIMELINE:**

<b>Previous Actions</b>	May 2017 – The Q1/CY2017 Vital Signs report was presented to the Customer Service, Operations and Security Committee
<b>Anticipated actions after presentation</b>	February 2018 – The Q2/FY18 Vital Signs Report will be delivered to the Customer Service, Operations and Security Committee



Washington Metropolitan Area Transit Authority

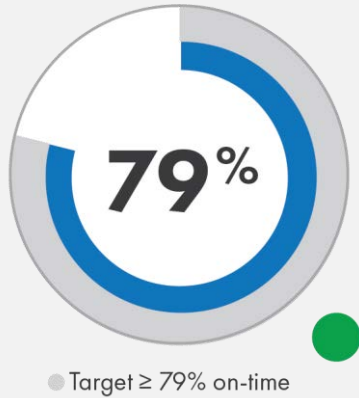
Q1

# Vital Signs Report

Customer Service, Operations and Security Committee  
November 16, 2017

# Metrobus On-Time Performance

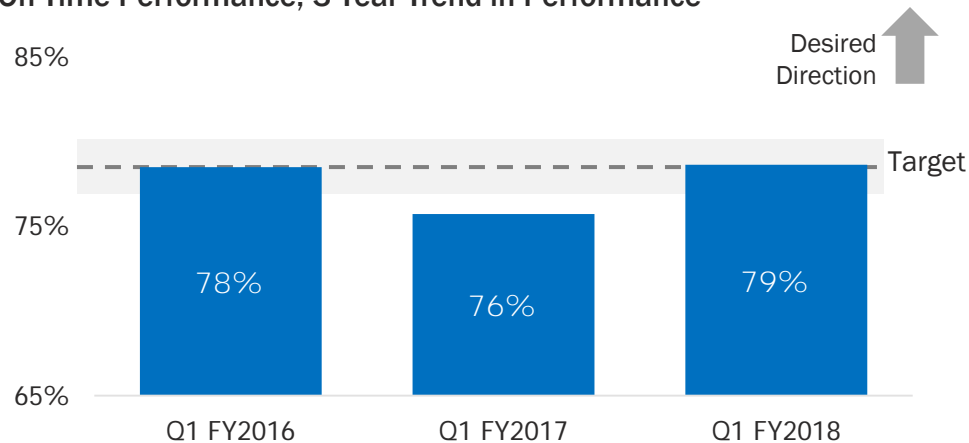
Bus On-Time Performance



Bus Fleet Reliability



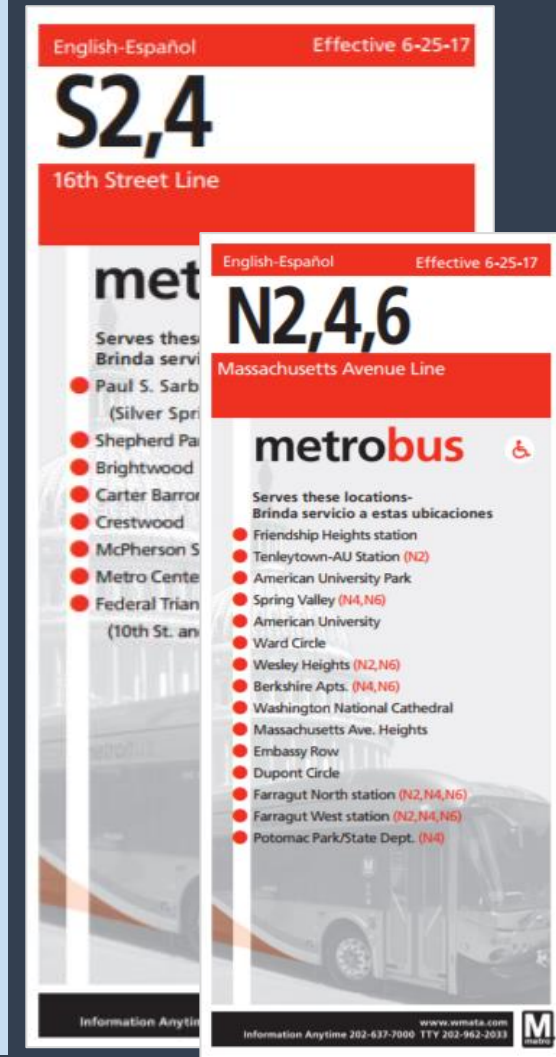
On-Time Performance, 3-Year Trend in Performance



OTP best first quarter result since report began in 2010

## Key Actions:

- B2G** Street Supervisor technology upgrade for real-time tracking of buses
- B2G** Implement schedule adjustments on low-performing routes
- B2G** Midlife overhaul and preventive maintenance programs
- B2G** Sustain bus procurements
- B2G** SmartYard division management for on-time pullouts

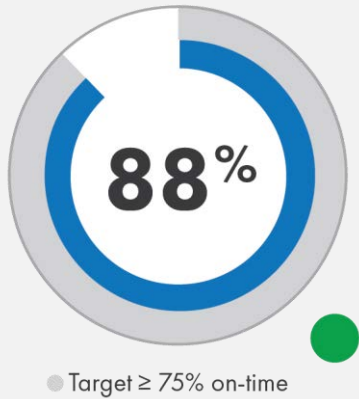




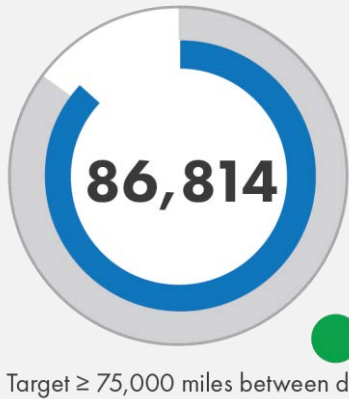


# Metrorail Customer On-Time Performance

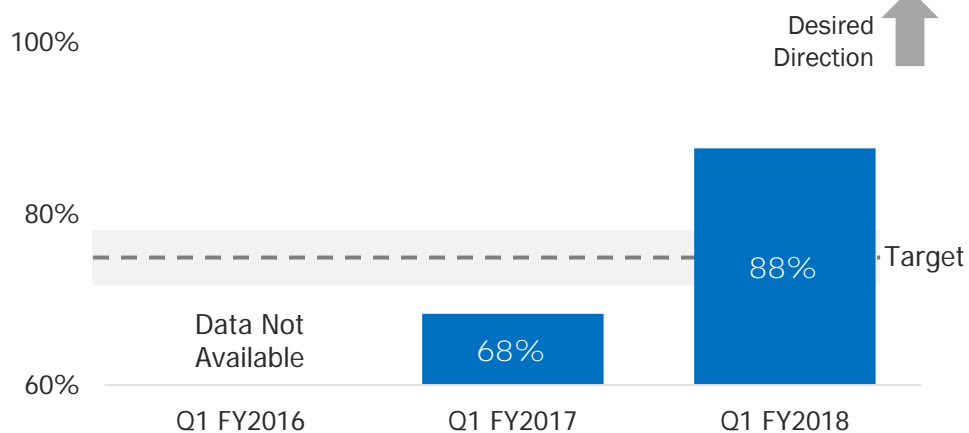
Rail On-Time Performance



Rail Fleet Reliability



Customer On-Time Performance, 3-Year Trend in Performance



OTP improved thanks to realistic rail schedule and fewer railcar delays

## Key Actions:

- B2G** Railcar "Get Well" plan
- B2G** Acceptance of 7K trains
- B2G** Rail infrastructure preventive maintenance and capital programs
- B2G** Repair escalators, elevators and fare gates
- Begin retirement of 5000 series fleet CY2018



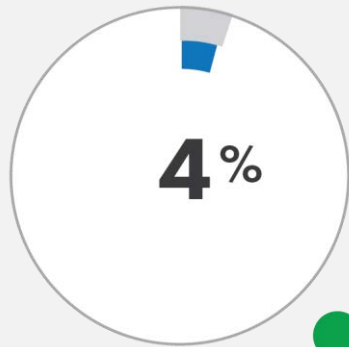
# Rail Infrastructure Availability

Rail Infrastructure Availability



Pilot KPI

Guideway Condition



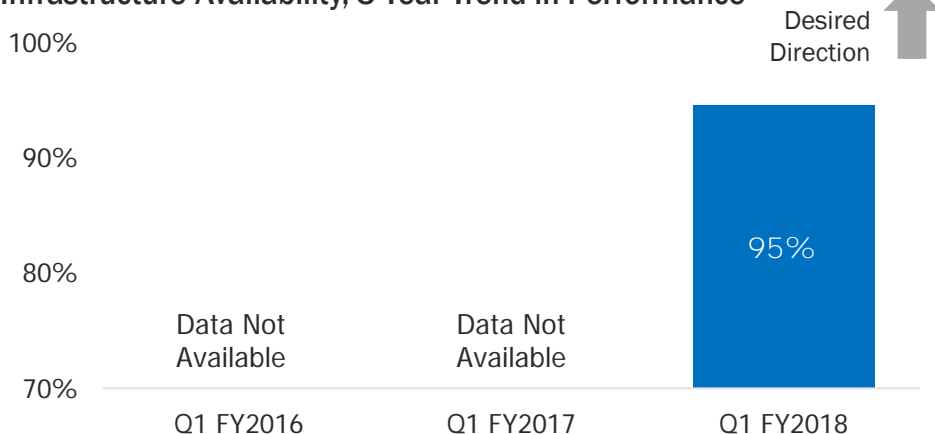
● Target < 5% under speed restriction

Speed restriction in downtown core reduced availability with limited impact on OTP

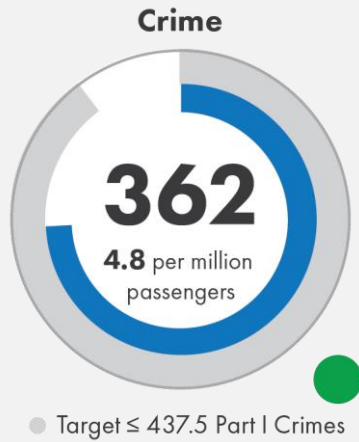
## Key Actions:

- B2G** Preventive maintenance and capital programs
- B2G** Expand pilot waterproofing technique in Red Line tunnels
- B2G** Track inspections to identify and fix degraded conditions

Infrastructure Availability, 3-Year Trend in Performance

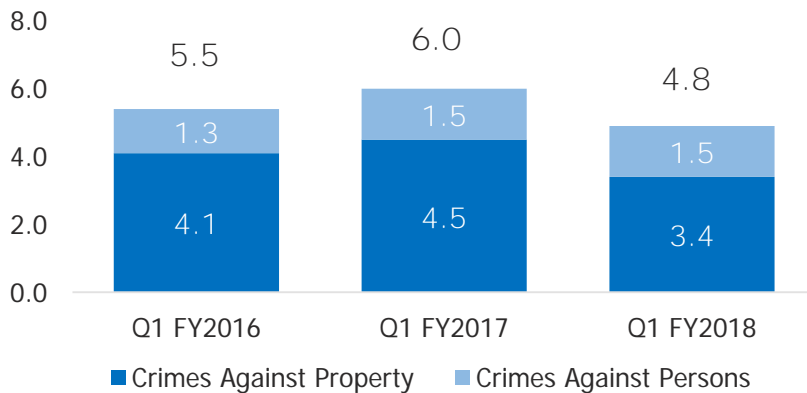






**Crime Rate, 3-Year Trend in Performance**  
Part I crimes per million passenger trips

Desired Direction  
↓



Part I crimes decreased 19% compared to last year

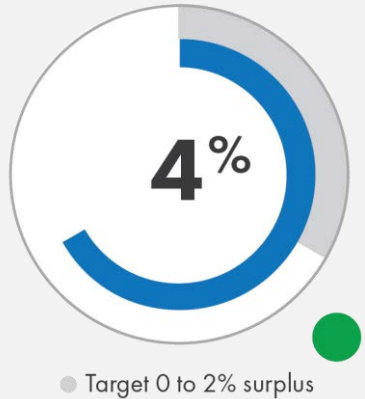
## Key Actions:

- B2G** Closed circuit television (CCTV) and real-time monitoring
- B2G** Fare evasion initiative
- B2G** Collaboration between police and bus operators

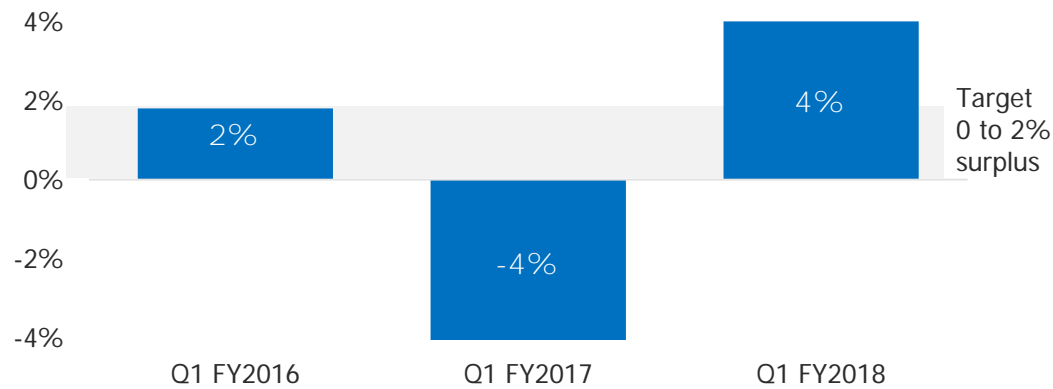


# Budget Management & Capital Investment

## Budget Management

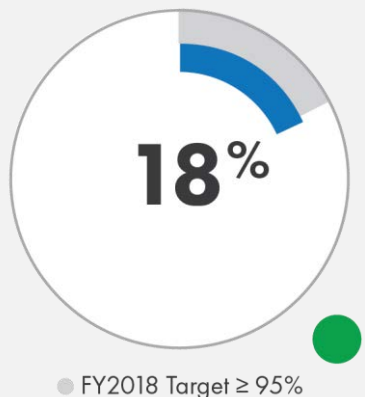


## Budget Management, 3-Year Trend in Performance

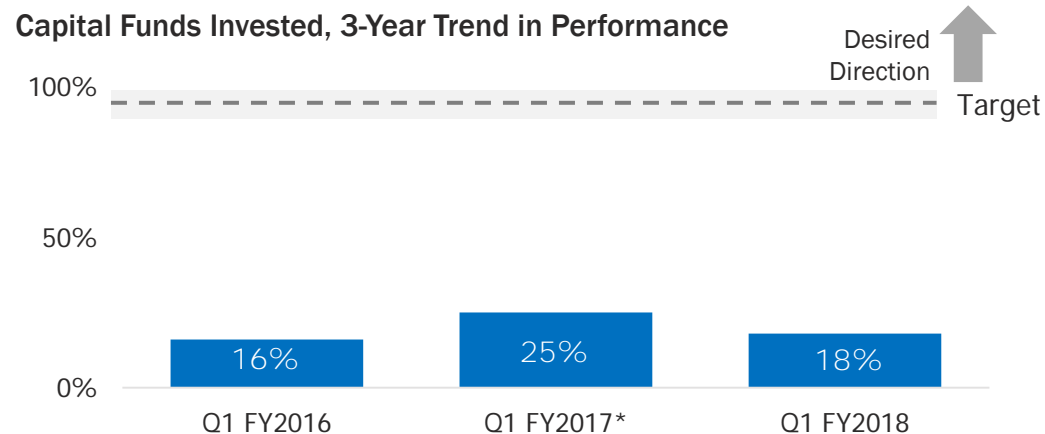


Management controlled cost through aggressive actions, resulting in surplus

## Capital Funds Invested

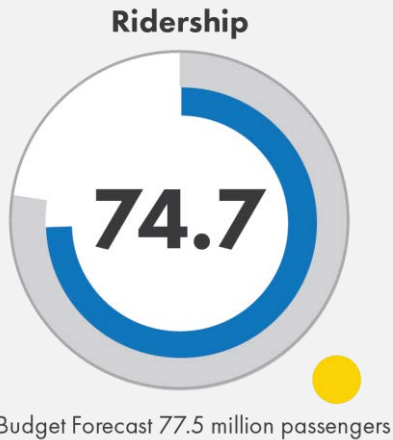


## Capital Funds Invested, 3-Year Trend in Performance



\*Share of FY2017 capital budget including amendments (\$1.175 billion)





- Peak rail stabilized due to better reliability and real estate development near some stations
- Off-peak rail down
- Fare increase hurting bus ridership
- SelectPass inducing significant ridership and revenue

## BACK 2 GOOD



### SERVICE RELIABILITY

- **Customer offloads down nearly 40%** in first seven months of 2017, compared to the same period in 2016.
- **Rail customer on-time performance improved to 89%** for August 2017.
- **MyTripTime:** WMATA is the first transit property in the country to offer personalized travel time data for customers. Check it out by logging into your SmarTrip account at [smartrip.wmata.com](http://smartrip.wmata.com).



### RAIL & BUS FLEET

- **Railcar reliability up more than 50%** in first seven months of 2017, compared to the same period in 2016.
- **Cooler railcars:** Nearly 60% fewer HVAC issues reported in July 2017, compared with July 2016.
- **50 new 7000-series trains** (400 railcars) in service.
- **100 new Metrobuses** each year replace the oldest, least reliable buses in the fleet.

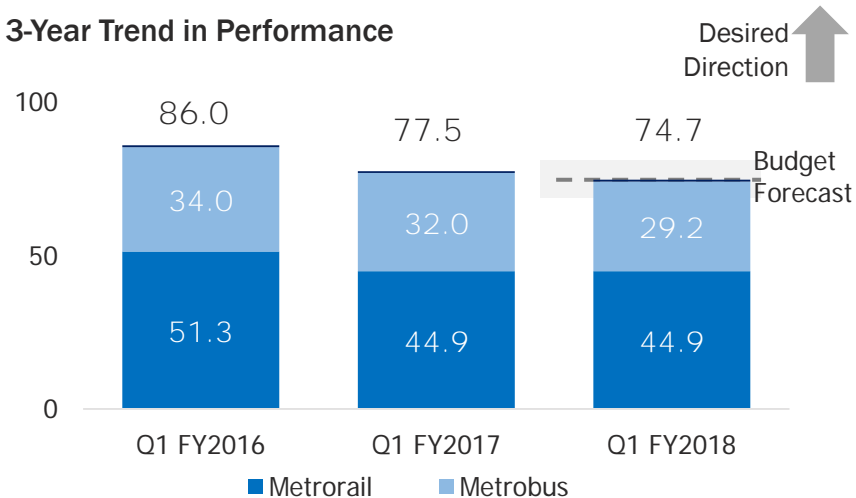
For more information visit [wmata.com/back2good](http://wmata.com/back2good)

Update Published: September 11, 2017

### Key Actions:

- B2G** Pass products, auto-reload, and other fare products
- B2G** Sustain improvements in bus and rail on-time performance
- SmartBenefits and regional employer relationships

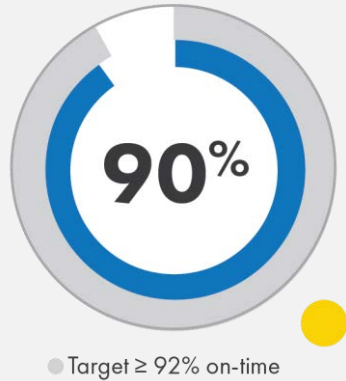
### 3-Year Trend in Performance





# MetroAccess On-Time Performance

MetroAccess On-Time Performance

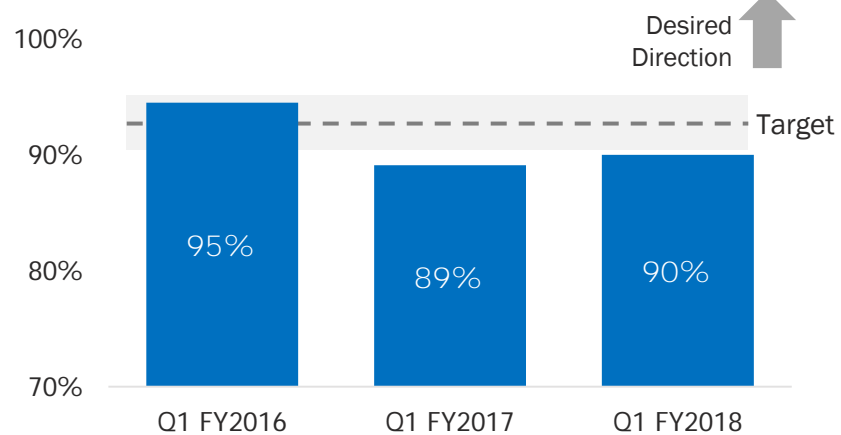


More MetroAccess vehicles arrived within the on-time window compared to last year

## Key Actions:

- B2G** Abilities-Ride program
- B2G** Request for proposals
  - Operator staffing levels and performance

3-Year Trend in Performance



# Customer Injuries

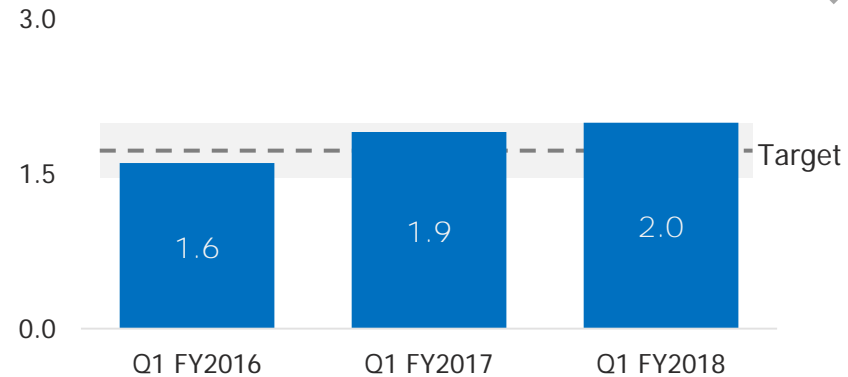
Customer Injuries



● Target  $\leq 1.75$  per million passengers

3-Year Trend in Performance

Desired  
Direction ↓



Up slightly from last year, with improvement in MetroAccess

## Key Actions:

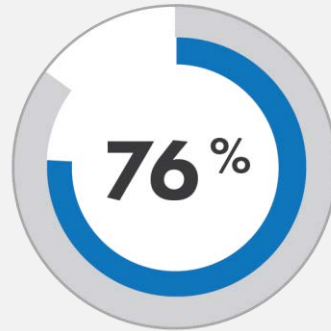
- B2G** Station lighting and targeted safety messages
  - Optimal boarding location signage installation
  - Drivecam



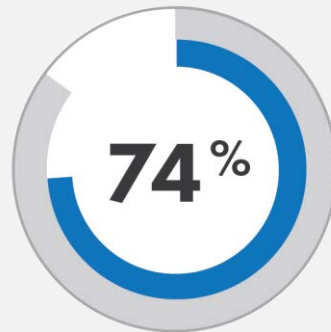
# Customer Satisfaction






Customer Satisfaction – Bus



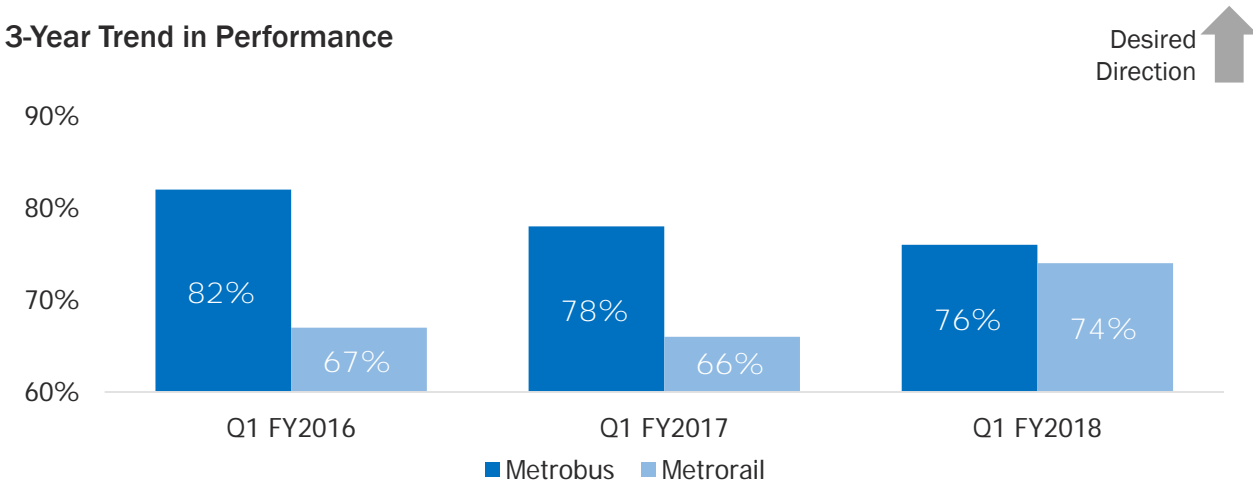
Customer Satisfaction – Rail



## Key Actions:

-  Bus schedule adjustments on low-performing routes
-  Railcar “Get Well” plan
-  Rail infrastructure preventive maintenance and capital programs
  - Station management

## 3-Year Trend in Performance







# Vital Signs

July-September 2017

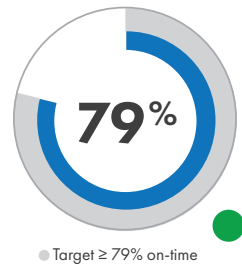
Published: November 2017

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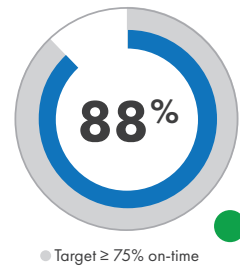
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## Key Performance Indicators

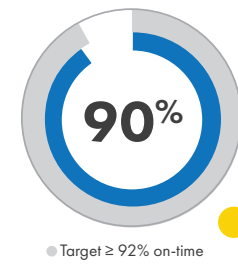
Bus On-Time Performance



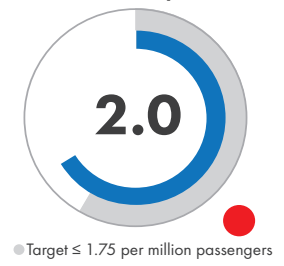
Rail On-Time Performance



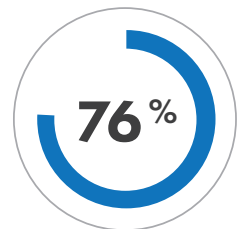
MetroAccess On-Time Performance



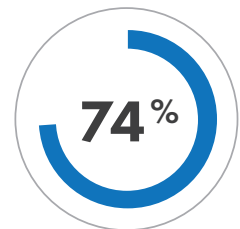
Customer Injuries



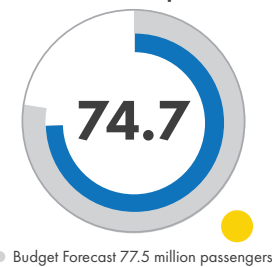
Customer Satisfaction – Bus



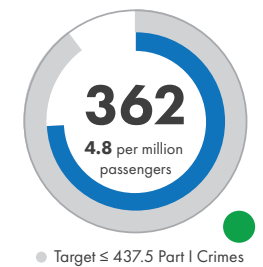
Customer Satisfaction – Rail



Ridership

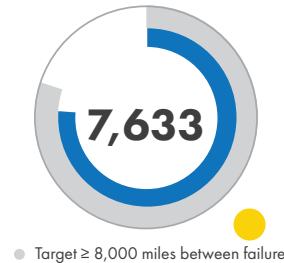


Crime

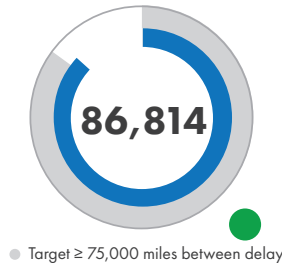


## Key Drivers

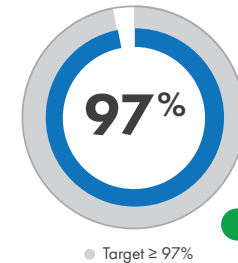
Bus Fleet Reliability



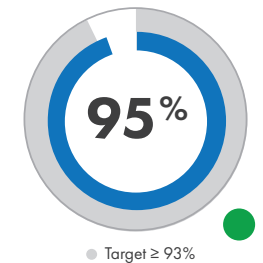
Rail Fleet Reliability



Elevator Availability



Escalator Availability



### KEY

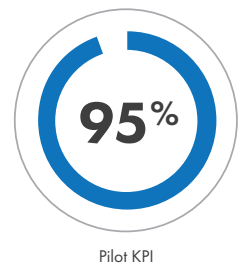
○ TARGET  
● ACTUAL

● MET OR ABOVE TARGET  
● NEAR TARGET  
● UNACCEPTABLE RESULT

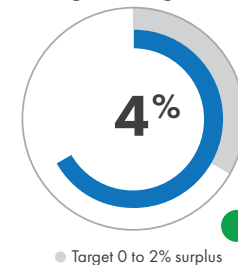
### NOTE

Percentages rounded to the nearest whole number

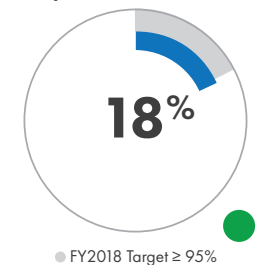
Rail Infrastructure Availability



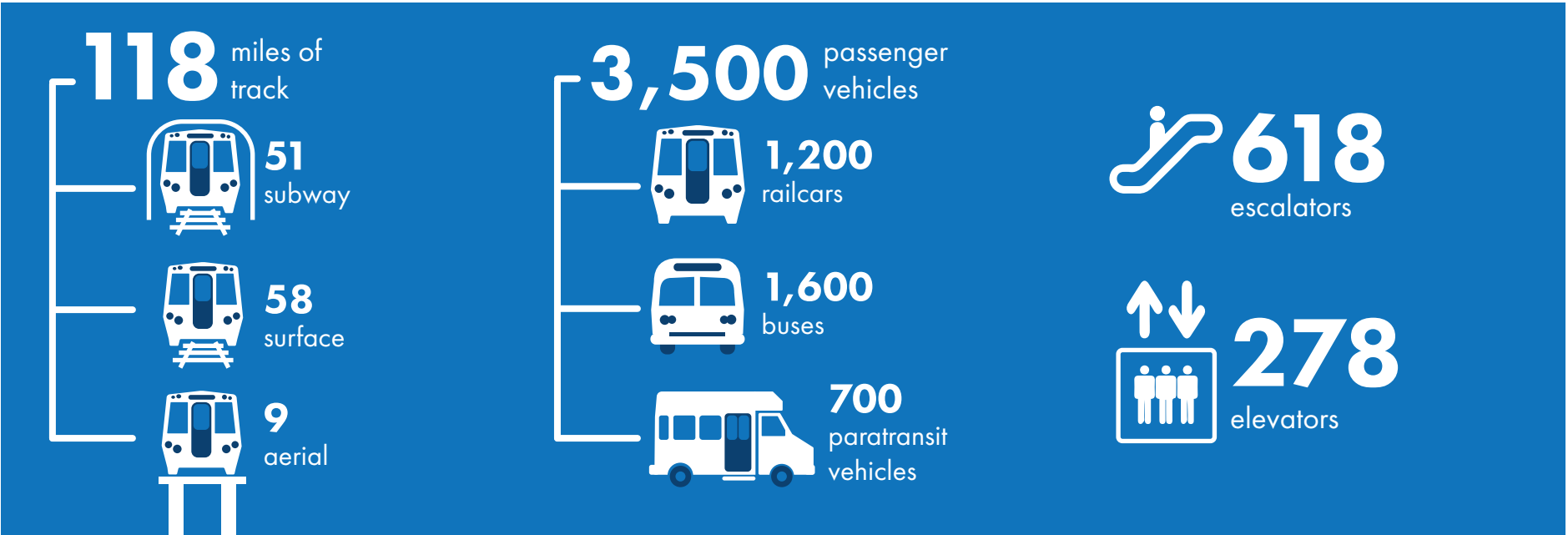
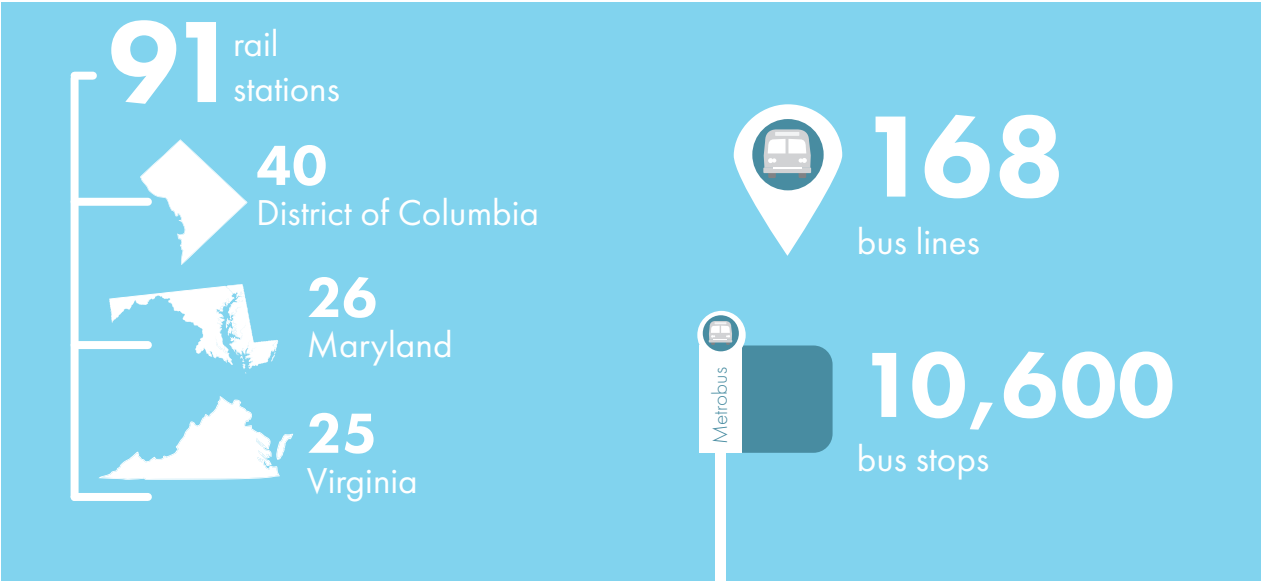
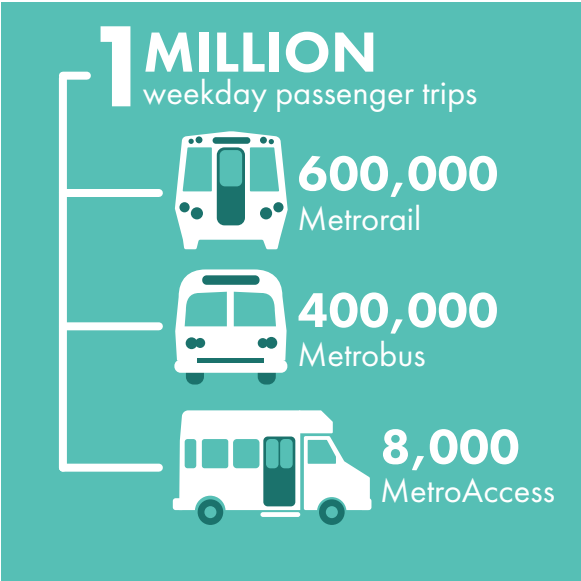
Budget Management



Capital Funds Invested



About Metro



## Path to Improved Performance



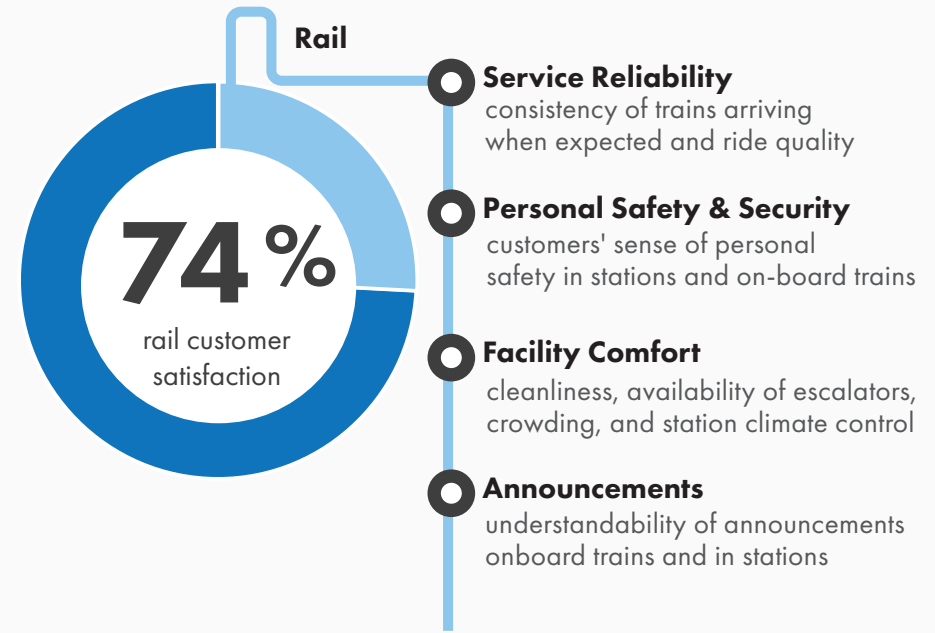
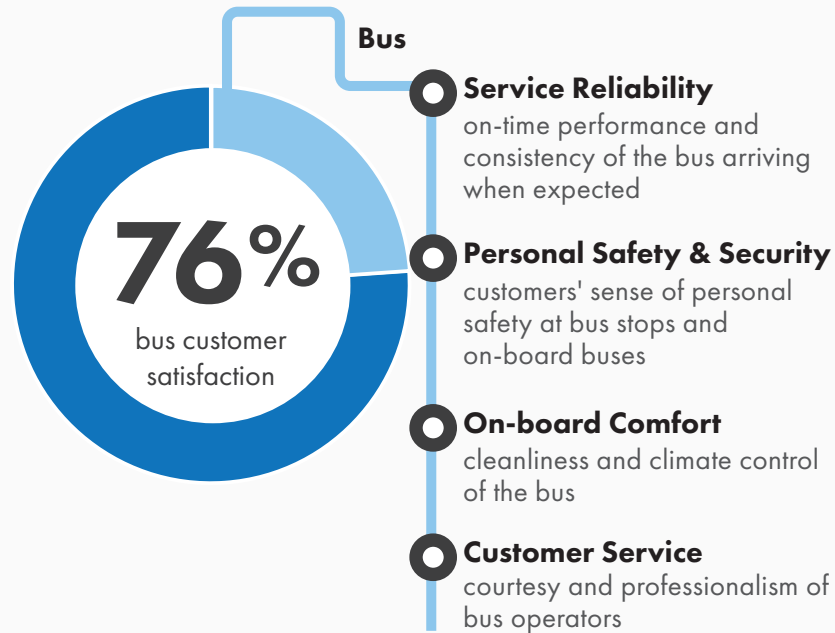
## KPI: Customer Satisfaction

QUALITY SERVICE



Bus customer satisfaction remained steady, statistically unchanged with the previous year; rail customer satisfaction is improving with the number of customers that feel Metro is getting better more than doubling this same time last year

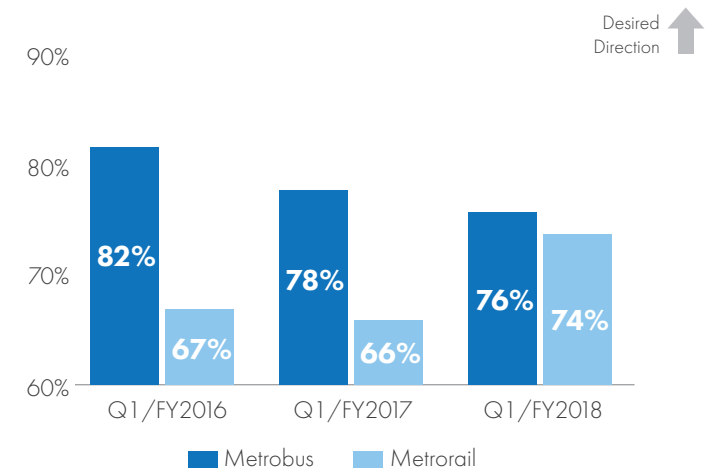
### What caused customers to not be satisfied?



### Key actions to improve performance

- Sustain improvements in rail and bus on-time performance, including:
  - » Implement active service management on headway-managed bus routes
  - » Execute railcar "get well" program, including continued acceptance of 7K trains
  - » Implement new, aggressive preventive maintenance and capital programs that will cut unplanned delays by half by July 2019
  - » Minimize customer impact of planned track outages by taking advantage of longer evening and weekend work windows and "piggy-backing" work
- Improve station management and make stations cleaner and brighter to better serve customers

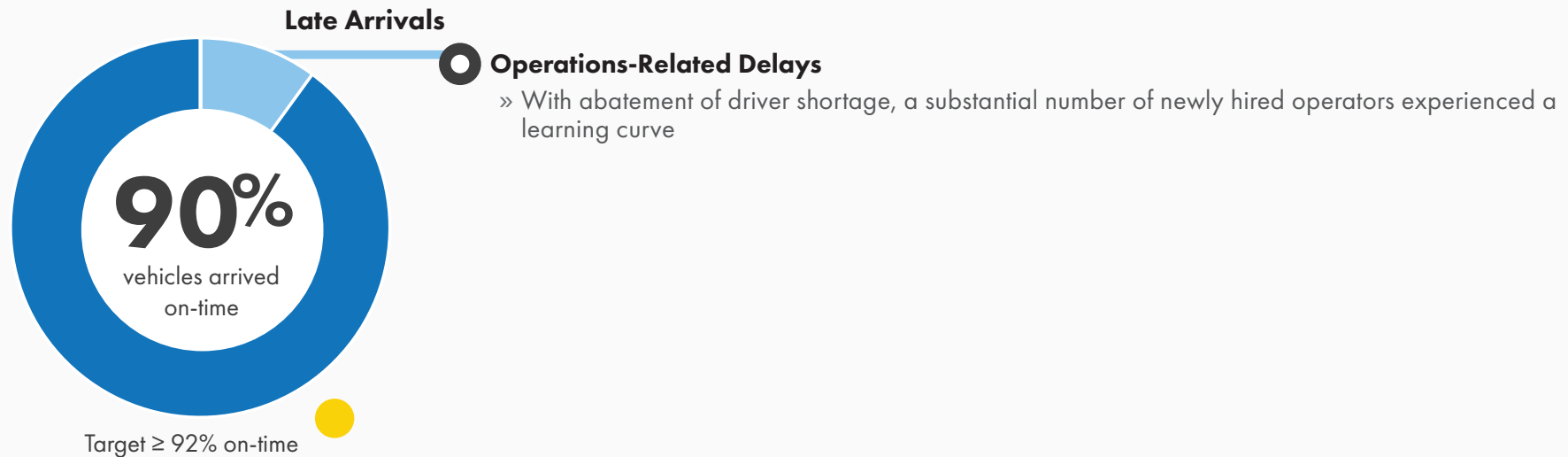
### 3-YEAR TREND IN PERFORMANCE





**While more MetroAccess vehicles arrived within the on-time window compared to Q1 /FY2017, results fell short of target, as newly hired operators adjusted to their roles**

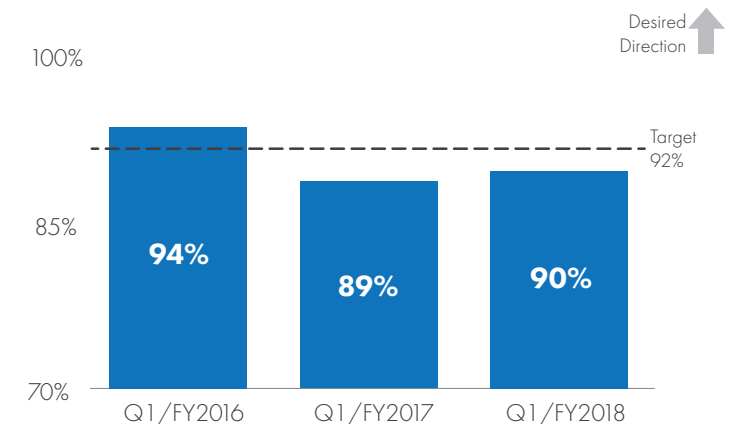
## What caused vehicles to not arrive on-time?



## Key actions to improve performance

- ▶ Award contracts for paratransit service providers
- ▶ Monitor performance of Abilities-Ride pilot program
- ▶ Fleet modernization effort – retiring portion of legacy paratransit vans and adding 207 new paratransit vans – will help enable MetroAccess to better meet strong service demand stemming from high ridership levels
- ▶ Review route management practices by call center operators

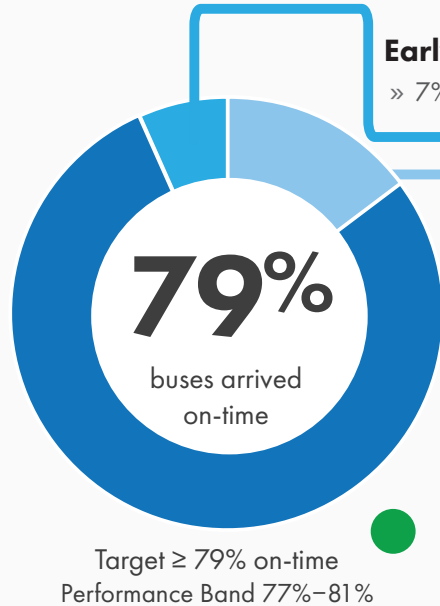
## 3-YEAR TREND IN PERFORMANCE





**Metrobus on-time performance of 79% improved 3% compared to Q1/FY2017 and is the best first quarter result since the Vital Signs Report began in 2010**

## What caused buses to not arrive on-time?



**Early Arrivals** buses arriving at stops greater than 2 minutes ahead of schedule

» 7% of buses arrived early, a 1% improvement compared to Q1/FY2017, with fewer buses arriving early across all service periods

**Late Arrivals** buses arriving at stops more than 7 minutes behind schedule

» 15% of buses arrived late, a 2% improvement compared to Q1/FY2017

» Even with September's seasonal road congestion, late arrivals decreased 3% during AM Peak period service (6AM–9AM) with 82% of buses arriving on-time; late arrivals also decreased 3% during PM Peak period service (3PM–7PM) with 73% of buses arriving on-time

» On-time arrival improvements driven by schedule adjustments of low-performing routes; schedule adjustments implemented in July improved Q1/FY2018 on-time performance 1% compared to this same time last year

**Bus Fleet Reliability**

» Fleet reliability performed 5% below target due to summer seasonal weather impact in Q1/FY2018, with buses traveling 7,633 miles on average between breakdown

» The fleets that provide the most service – Hybrid and CNG – experienced 3% improved reliability compared to last year despite impacts from the summer heat due to a number of mitigating and proactive actions implemented

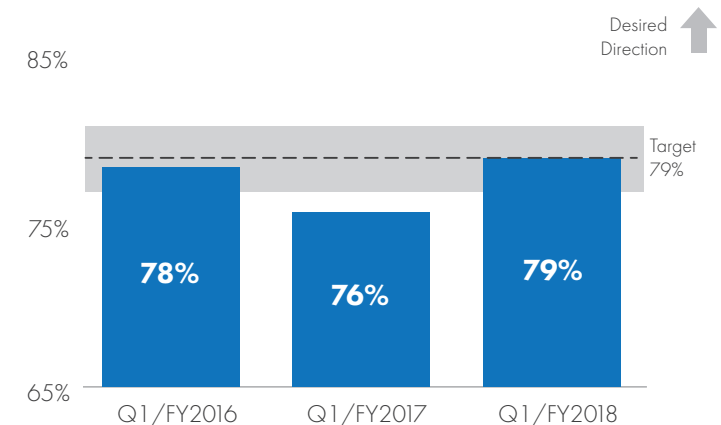
**Operator-Related** » Operator availability-related delays increased due to bus operator vacancies

**Collisions** » Metrobus collisions per million miles decreased 2% compared to Q1/FY2017 with 16 fewer collisions

## Key actions to improve performance

- Upgrade Street Supervisor technology to allow for real-time tracking of buses
- Implement active service management on headway-managed routes in support of providing reliable, evenly-spaced service
- Utilize SmartYard division management tool for ensuring on-time departures from the garage, the first step in delivering on-time service
- Continue to identify routes with low on-time performance and implement schedule adjustments to allow for adequate run-time resulting in more realistic schedules for customers and operators
- Continue to retire less-reliable, older buses, and complete mid-life overhauls annually

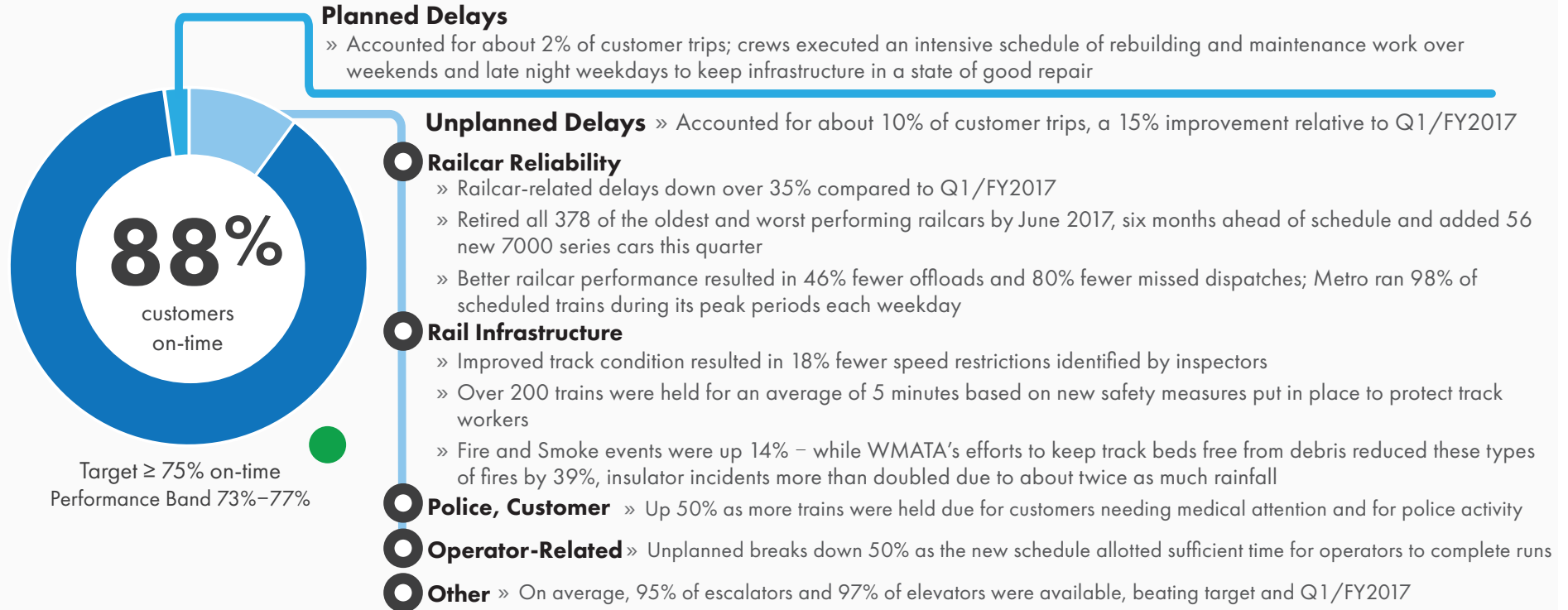
## 3-YEAR TREND IN PERFORMANCE





## Metrorail on-time performance improved in the first quarter to 88%, thanks to a more realistic rail schedule and fewer railcar-related delays

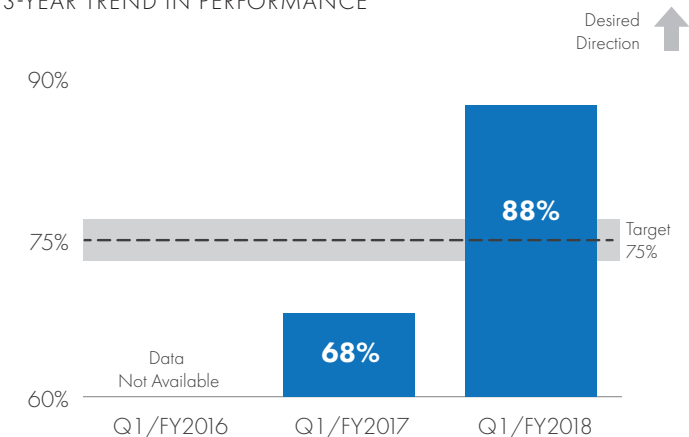
### What caused customers to not be on-time?



### Key actions to improve performance

- ▶ Implement railcar “get well” program, including continued acceptance of 7K trains
- ▶ Begin retirement of the 5000 series fleet in calendar year 2018
- ▶ Implement new railcar maintenance strategy and rail fleet plan
- ▶ Execute rail preventive maintenance and capital renewal programs designed to cut infrastructure-related delays in half by July 2019
- ▶ Repair escalators, elevators and fare gates to enable smooth flow of passengers through station

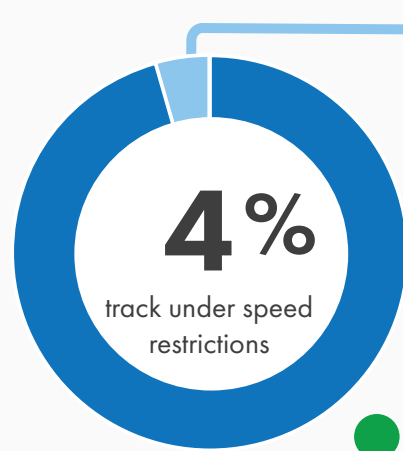
### 3-YEAR TREND IN PERFORMANCE





## Speed restriction through the downtown core of the system reduced availability but had limited impact on customer on-time performance

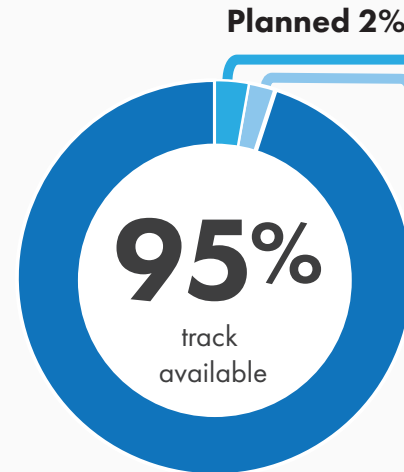
### What caused rail infrastructure to not be available?



Target < 5% under speed restriction  
The Federal Transit Agency (FTA) requires all transit providers to report the percentage of track segments with performance restrictions at 9AM the first Wednesday of every month

#### Speed Restrictions

- » On average this quarter, 4.4% of track, or about 10.4 of 239 miles, was under speed restriction at 9AM the first Wednesday of every month
- » In mid-August, Metro put in place a 35 mile per hour speed restriction covering almost 23 miles of track through the downtown core of the system to reduce trains' traction power draw while Metro completes an analysis to optimize the power system used to propel trains. It has a minimal impact on customer on-time performance as most trains do not travel above 35 miles per hour on these segments.



#### Pilot KPI

WMATA has also begun measuring track availability during all revenue hours not just 9AM the first Wednesday of the month

- » Crews executed an aggressive track work program to keep the system in a state of good repair, with at least two major work efforts each weekend that resulted in around-the-clock single tracking or shutdown portions of the system

#### Unplanned 3%

#### Speed Restrictions

- » A 35 mile per hour speed restriction covering most of the downtown area reduced availability by 1%
- » All other speed restrictions were resolved on average within 36 hours thanks to improved overall track condition

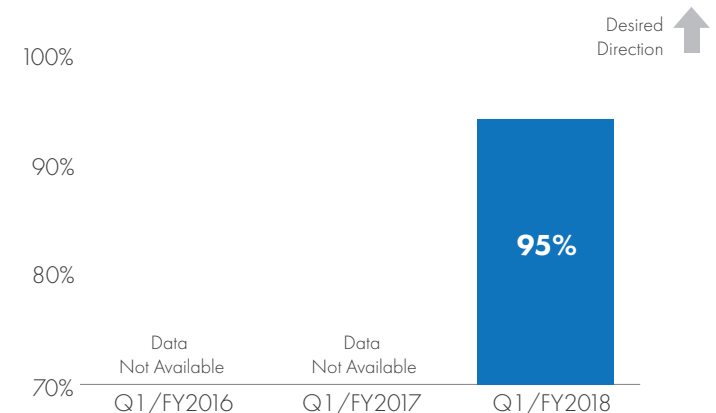
#### Single-Tracking Events

- » There averaged 27 single-track events per month, most resolved in under an hour

### Key actions to improve performance

- ▶ Implement new, aggressive preventive maintenance and capital programs that will cut unplanned delays by half by July 2019
- ▶ Minimize customer impact of planned track outages by taking advantage of longer evening and weekend work windows and "piggy-backing" work
- ▶ Continue rigorous track inspection program to identify and fix degraded conditions before they become safety hazards and implement a new comprehensive track inspector training program
- ▶ Conduct more analysis of Track Geometry Vehicle inspection data to inform maintenance program and schedules
- ▶ Expand waterproofing technique in Red Line tunnels most affected by leaks, with aim to reduce arcing insulators and other smoke/fire events caused by water

### 3-YEAR TREND IN PERFORMANCE

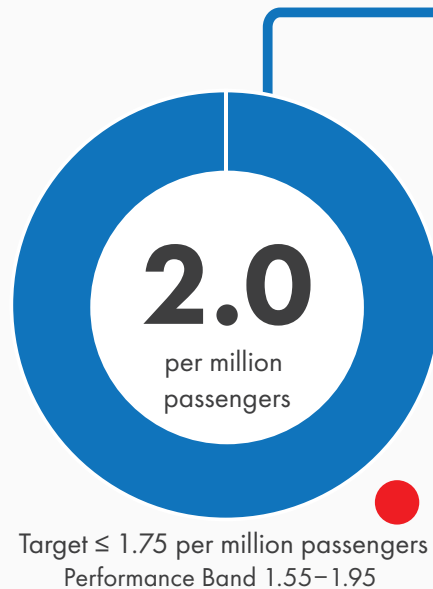






**While customer injuries were higher than the same period last year driven by non-preventable bus collision-related injuries, there was a noticeable reduction in MetroAccess customer injuries**

## What injuries occurred?



### Metrobus

- » Q1/FY2018 bus customer injuries accounted for 55% of total customer injuries, and the rate increased 22% compared to Q1/FY2017
- » Collision-related injuries continue to be the leading cause of bus customer injuries

### Metrorail

- » Q1/FY2018 rail customer injuries accounted for 38% of the total customer injuries, and the rate increased 6% compared to Q1/FY2017
- » Slips, trips, or falls, in stations (20%) or on escalators (16%) were the leading cause of rail customer injuries

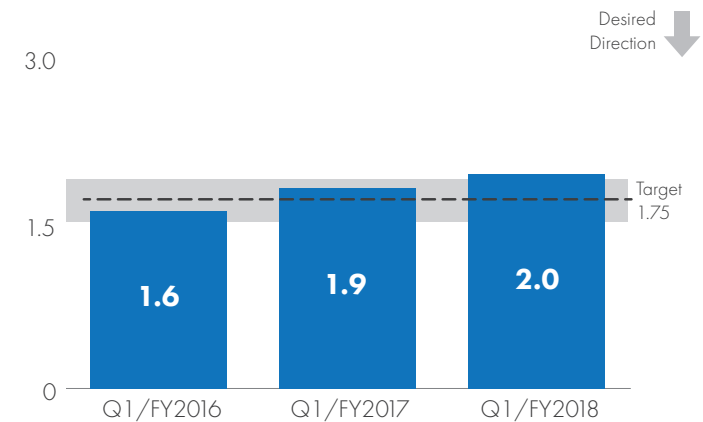
### MetroAccess

- » Q1/FY2018 MetroAccess customer injuries accounted for 7% of the total customer injuries, and the rate decreased 37% compared to Q1/FY2017
- » Collision-related injuries were the leading cause of MetroAccess injuries

## Key actions to improve performance

- ▶ Deploy deceleration lights on the back on buses and employ DriveCam reviews in defensive driving curriculum for bus operators
- ▶ Improve lighting and target safety messages to customers in rail stations
- ▶ Conduct station inspections to identify uneven surfaces and other hazards
- ▶ Continue revised MetroAccess operator training, facilitated by an occupational therapist, with better methods to assist customers who have difficulty maintaining balance

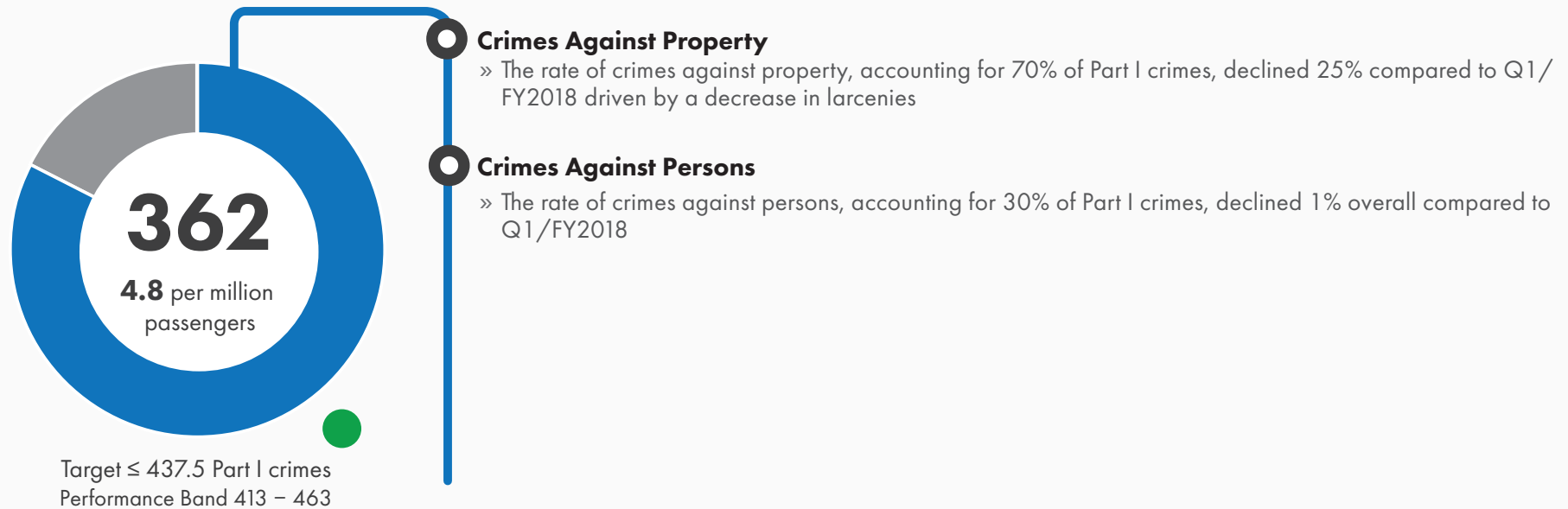
## 3-YEAR TREND IN PERFORMANCE





**Part I crimes decreased 19% compared to the same period last year with decreases in both crimes against persons and crimes against property**

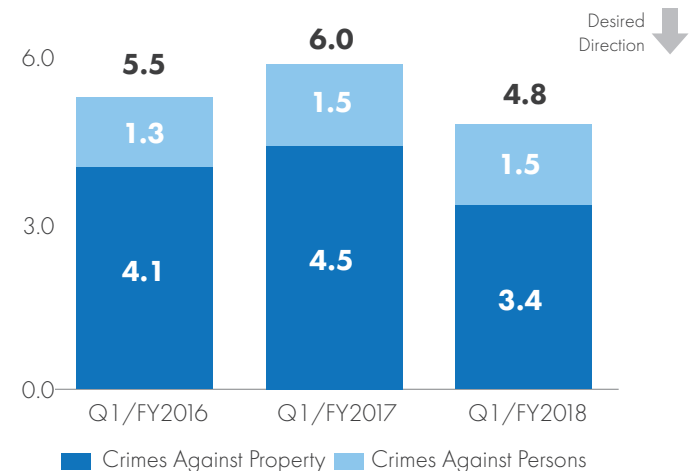
## What crimes occurred?



## Key actions to improve performance

- ▶ Enhance safety features
  - » Install public safety radio systems and cabling for cellphone service in tunnels
  - » Improve station lighting
- ▶ Surge deployments of uniformed officers during high crime periods for increased visibility to deter aggravated assaults and other crimes in rail stations
- ▶ Continually adjust tactics and resource allocation to address changing crime hotspots
- ▶ Sustain the fare evasion initiative on rail and bus and continue the collaboration with bus operators and managers to reduce bus crime and operator assaults

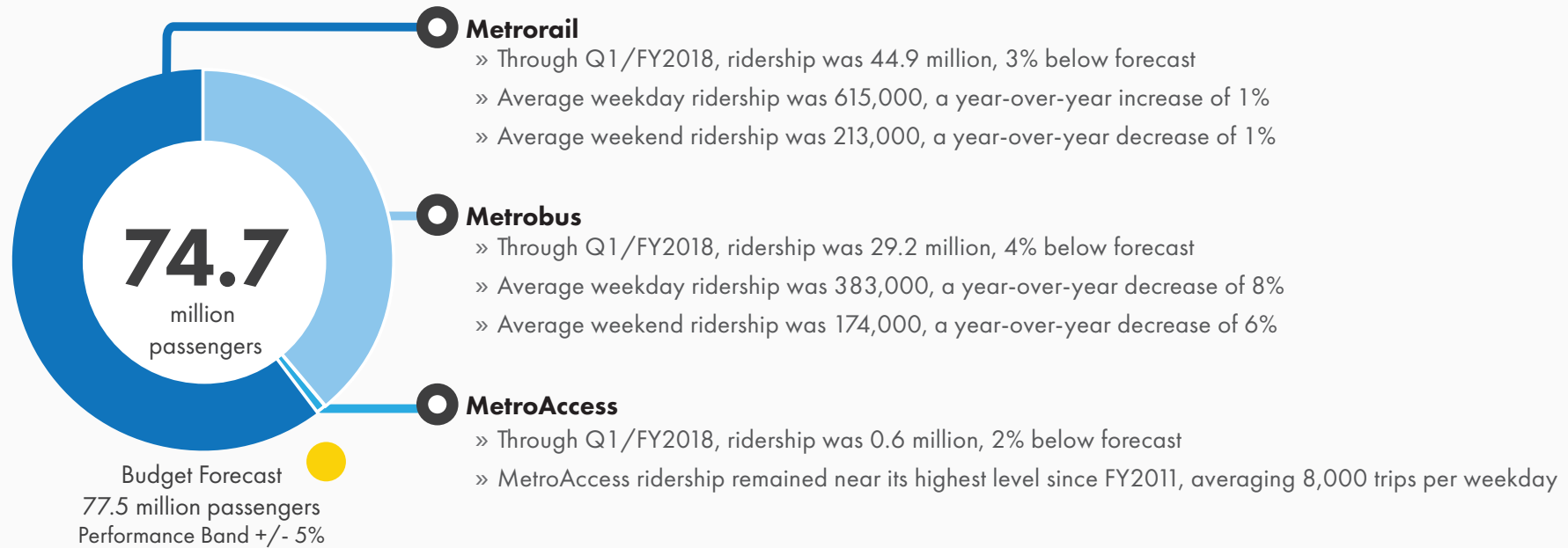
## 3-YEAR TREND IN PERFORMANCE





Through Q1 /FY2018, total ridership was 74.7 million, 3% below forecasted ridership of 77.5 million

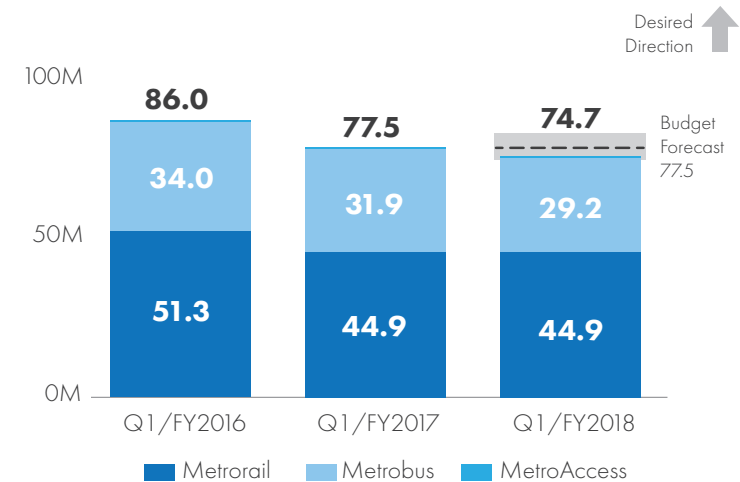
## How much service was consumed?



## Key actions to improve performance

- ▶ Sustain improvements in rail and bus on-time performance
- ▶ Promote pass products, auto-reload, and other fare products through tailored marketing
- ▶ Strengthen SmartBenefits and regional employer relationships
- ▶ Encourage off-peak ridership
- ▶ Improve ability to forecast ridership with new model
- ▶ Partner with local jurisdictions to promote transit-oriented development

## 3-YEAR TREND IN PERFORMANCE



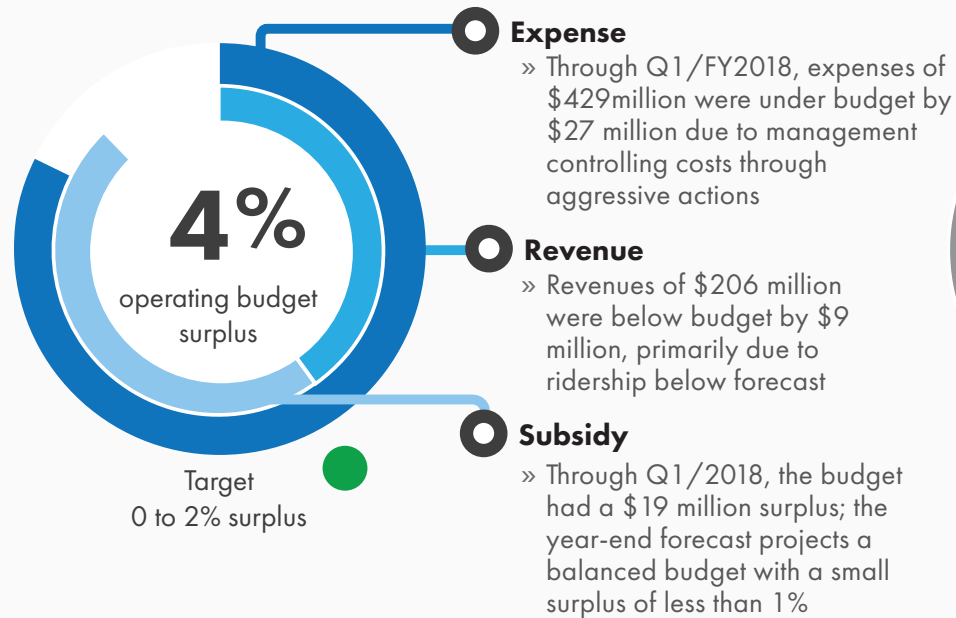
## KPI: Budget Management and Capital Funds Invested

FISCAL RESPONSIBILITY

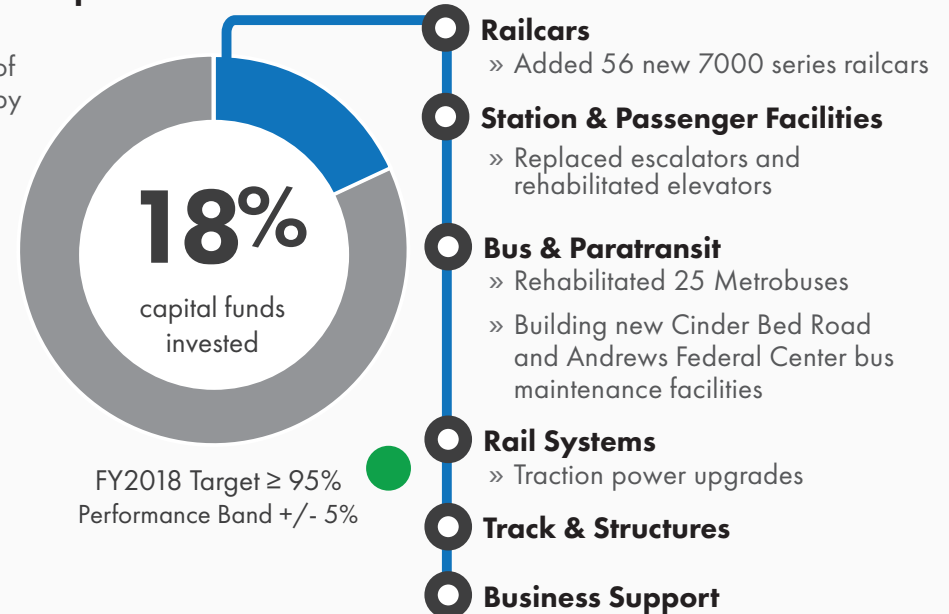


Through Q1 /FY2018, the operating budget had a 4% surplus due to expense reductions exceeding revenue shortfalls; 18% of the total \$1.25 billion FY2018 capital budget was invested, \$228 million of \$231 million budgeted Q1

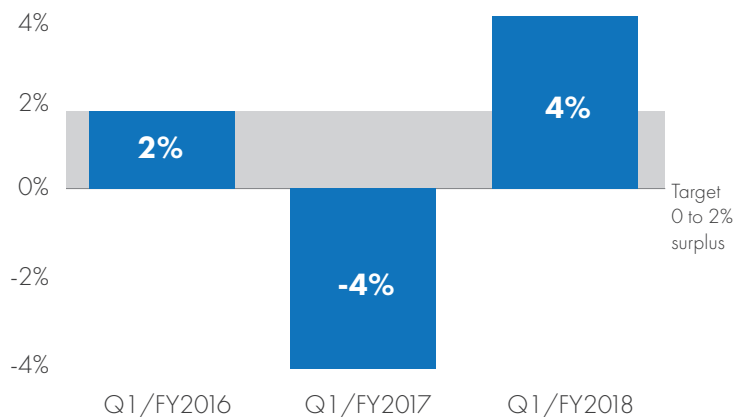
### Budget Management



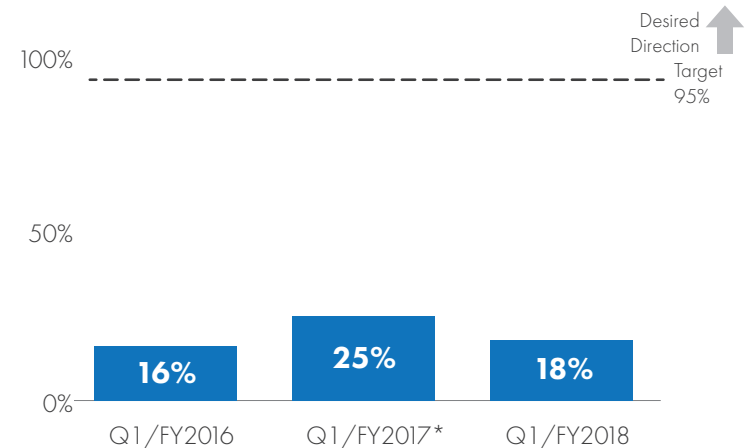
### Capital Funds Invested



BUDGET MANAGEMENT, 3-YEAR TREND IN PERFORMANCE



CAPITAL FUNDS INVESTED, 3-YEAR TREND IN PERFORMANCE



\* Share of FY2017 capital budget including amendments (\$1.175 billion)

## Performance Data

FY2018

KPI: METROBUS CUSTOMER SATISFACTION RATING					
	Q1	Q2	Q3	Q4	FYTD
FY 2016	82%	81%	74%	78%	82%
FY 2017	78%	79%	74%	76%	78%
FY 2018	76%				76%

KPI: METRORAIL CUSTOMER SATISFACTION RATING					
	Q1	Q2	Q3	Q4	FYTD
FY 2016	67%	69%	68%	66%	67%
FY 2017	66%	66%	69%	72%	66%
FY 2018	74%				74%

KPI: METROACCESS ON-TIME PERFORMANCE [TARGET 92%]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	95%	95%	94%	93%	93%	94%	94%	93%	93%	93%	93%	92%	94%
FY 2017	92%	91%	84%	83%	84%	87%	88%	87%	85%	88%	87%	92%	89%
FY 2018	89%	91%	90%										90%

continued

KPI: METROBUS ON-TIME PERFORMANCE [TARGET 79%]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	79%	80%	76%	76%	77%	78%	77%	78%	78%	77%	77%	75%	78%
FY 2017	77%	77%	72%	73%	73%	76%	77%	78%	77%	76%	76%	76%	76%
FY 2018	80%	80%	76%										79%

KPI: METROBUS ON-TIME PERFORMANCE BY TIME PERIOD [TARGET 79%]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
AM Early (4AM-6AM)	89%	90%	89%										89%
AM Peak (6AM-9AM)	84%	84%	79%										82%
Mid Day (9AM-3PM)	79%	79%	77%										79%
PM Peak (3PM-7PM)	75%	75%	69%										73%
Early Night (7PM-11PM)	80%	80%	78%										79%
Late Night (11PM-4AM)	77%	79%	78%										78%

BUS FLEET RELIABILITY (BUS MEAN DISTANCE BETWEEN FAILURES) [TARGET 8,000 MILES]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	6,518	7,352	7,542	7,307	9,185	7,893	8,422	8,332	8,359	9,138	8,711	7,736	7,096
FY 2017	7,540	7,425	8,428	8,378	8,262	8,421	7,962	9,881	9,254	8,499	7,784	8,350	7,760
FY 2018	7,555	7,764	7,571										7,633

BUS FLEET RELIABILITY (BUS MEAN DISTANCE BETWEEN FAILURE BY FLEET TYPE)													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
CNG Average Age 8.4	7,633	8,270	6,636										7,472
Hybrid Average Age 6.2	8,201	8,483	8,940										8,526
Clean Diesel Average Age 10.3	5,072	4,111	4,981										4,652
All Other Average Age 17.5	3,058	6,673	3,643										4,085

continued

**Q1 /FY 2018 TOP 10 MOST CROWDED ROUTES BY JURISDICTION**

Service Code	Line Name	Route Name	Time Period	Highest Passenger Load	Load Factor
DC	16th Street	S4 *	AM Peak	119	<b>2.0</b>
	16th Street	S1 *	AM Peak	110	<b>2.0</b>
	16th Street	S2 *	AM Peak	106	<b>2.0</b>
	Georgia Ave - 7th Street	70 *	Midday	101	<b>2.0</b>
	Benning Road - H Street	X2 *	AM Peak	98	<b>2.0</b>
	Deanwood - Alabama Avenue	W4	Midday	80	<b>2.0</b>
	14th Street	52	AM Peak	79	<b>2.0</b>
	14th Street	54	AM Peak	79	<b>2.0</b>
	Friendship Heights - Southeast	30N	PM Peak	79	<b>2.0</b>
	14th Street	54	PM Peak	79	<b>2.0</b>
MD	New Carrollton - Silver Spring	F4	PM Peak	78	<b>1.9</b>
	Calverton - Westfarm	Z6	Midday	76	<b>1.9</b>
	Greenbelt-Twinbrook	C4	PM Peak	76	<b>1.9</b>
	Greenbelt-Twinbrook	C4	Midday	76	<b>1.9</b>
	Eastover - Addison Road	P12	PM Peak	76	<b>1.9</b>
	Georgia Avenue - Maryland	Y8	Midday	76	<b>1.9</b>
	New Hampshire Ave - Maryland	K6	PM Peak	75	<b>1.9</b>
	Georgia Avenue - Maryland	Y2	PM Peak	75	<b>1.9</b>
	Georgia Avenue - Maryland	Y2	Midday	75	<b>1.9</b>
	New Carrollton - Silver Spring	F4	Midday	74	<b>1.9</b>
VA	Leesburg Pike	28A	AM Peak	71	<b>1.8</b>
	Leesburg Pike	28A	PM Peak	71	<b>1.8</b>
	Lee Highway - Farragut Square	3Y	AM Peak	68	<b>1.7</b>
	Columbia Pike - Farragut Square	16Y	AM Peak	68	<b>1.7</b>
	Ballston - Farragut Square	38B	PM Peak	67	<b>1.7</b>
	Lincolnia - North Fairlington	7Y	PM Peak	67	<b>1.6</b>
	Columbia Pike - Farragut Square	16Y	PM Peak	66	<b>1.6</b>
	Columbia Pike	16B	AM Peak	64	<b>1.6</b>
	Richmond Highway Express	REX	PM Peak	63	<b>1.6</b>
	Richmond Highway Express	REX	AM Peak	62	<b>1.6</b>

Performance Threshold	Max Load Factor
Below Threshold	< 0.3
Standards Compliant	0.3 - 0.5
Occasional Crowding	0.6 - 0.7
Recurring Crowding	0.8 - 0.9
Regular Crowding	1.0 - 1.3
Continuous Crowding	> 1.3

Highest passenger load = the average of all the highest max loads recorded by route, trip and time period

Passenger Loads:

40' Bus (standard size) accommodates 40 sitting and 69 with standing

60' Bus (articulated) accommodates 61 sitting and 112 with standing

\* Route has articulated buses, allowing for passenger load above 100

Load Factor = highest passenger load divided by actual bus seats used

continued

KPI: METRORAIL CUSTOMER ON-TIME PERFORMANCE [TARGET 75%]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016							70%	72%	78%	80%	69%	71%	N/A
FY 2017	71%	69%	64%	65%	61%	63%	66%	71%	70%	75%	76%	79%	68%
FY 2018	86%	89%	87%										88%

KPI: METRORAIL CUSTOMER ON-TIME PERFORMANCE BY LINE													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
Red Line	87%	88%	89%										88%
Blue Line	82%	87%	81%										83%
Orange Line	83%	87%	79%										83%
Green Line	92%	93%	94%										93%
Yellow Line	85%	92%	91%										89%
Silver Line	82%	88%	81%										84%

KPI: METRORAIL CUSTOMER ON-TIME PERFORMANCE BY TIME PERIOD													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
AM Rush (5AM-9:30AM)	87%	92%	90%										90%
Mid-day (9:30AM-3PM)	90%	90%	89%										89%
PM Rush (3PM-7PM)	89%	88%	87%										88%
Evening (7PM-9:30PM)	92%	92%	93%										92%
Late Night (9:30PM-12AM)	90%	92%	93%										92%
Weekend	72%	79%	77%										76%

KPI: RAIL INFRASTRUCTURE AVAILABILITY [PILOT KPI]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2017							98%	97%	96%	96%	96%	95%	N/A
FY 2018	98%	95%	90%										95%

continued



**KPI: GUIDEWAY CONDITION [TARGET 5%]**

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2017	3%	2%	4%	6%	6%	6%	1%	0%	4%	2%	2%	5%	3%
FY 2018	0%	3%	10%										4%

**TRAIN ON-TIME PERFORMANCE (HEADWAY ADHERENCE) [TARGET 91%]**

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	84%	83%	79%	76%	80%	82%	78%	82%	86%	87%	80%	80%	82%
FY 2017	78%	76%	78%	80%	74%	76%	76%	82%	80%	84%	83%	82%	77%
FY 2018	90%	92%	89%										90%

**TRAIN ON-TIME PERFORMANCE BY LINE (HEADWAY ADHERENCE)**

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
Red Line	91%	92%	92%										92%
Blue Line	86%	89%	85%										87%
Orange Line	89%	90%	87%										89%
Green Line	93%	95%	96%										95%
Yellow Line	91%	94%	93%										93%
Silver Line	88%	91%	86%										89%

**TRAIN ON-TIME PERFORMANCE BY TIME PERIOD (HEADWAY ADHERENCE)**

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
AM Rush	85%	89%	86%										87%
Mid-day	94%	95%	93%										94%
PM Rush	88%	89%	87%										88%
Evening	94%	93%	96%										94%

**RAIL FLEET RELIABILITY (RAIL MEAN DISTANCE BETWEEN DELAYS) [TARGET 75,000 MILES]**

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	56,446	59,196	60,872	65,900	63,564	51,599	39,657	47,239	59,131	80,943	81,278	85,389	58,687
FY 2017	55,850	73,246	65,416	86,174	66,697	76,244	79,105	85,489	80,348	118,958	101,585	104,461	64,081
FY 2018	92,927	83,133	85,212										86,814

continued

RAIL FLEET RELIABILITY (RAIL MEAN DISTANCE BETWEEN DELAYS BY RAILCAR SERIES)													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
2000/3000 series	115,528	69,136	109,844										93,108
5000 series	43,257	48,454	44,038										45,270
6000 series	75,405	132,930	100,630										96,995
7000 series	147,371	116,557	87,191										111,018

RAIL FLEET RELIABILITY (RAIL MEAN DISTANCE BETWEEN FAILURE) [TARGET 6,500 MILES]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	4,576	4,802	4,738	5,326	4,970	5,693	5,020	4,813	5,336	5,307	5,596	5,259	4,699
FY 2017	4,333	4,606	5,538	6,321	6,355	6,819	6,787	7,723	6,878	7,902	8,425	8,215	4,762
FY 2018	7,438	8,218	9,818										8,384

RAIL FLEET RELIABILITY (RAIL MEAN DISTANCE BETWEEN FAILURE BY RAILCAR SERIES)													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
2000/3000 series	8,169	7,731	10,461										8,635
5000 series	2,809	3,230	3,670										3,195
6000 series	8,062	12,085	11,724										10,210
7000 series	14,936	16,229	17,315										16,144

TRAINS IN SERVICE [TARGET 95%]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2017			94%	96%	92%	99%	94%	98%	97%	97%	96%	97%	94%
FY 2018	98%	98%	98%										98%

continued

**RAIL CROWDING [OPTIMAL PASSENGERS PER CAR (PPC) OF 100, WITH MINIMUM OF 80 AND MAXIMUM OF 120 PPC]**

AM Rush Max Load Points		May-16	Jun-16	May-17	May-17
Gallery Place	Red	80	94	84	93
Dupont Circle		79	88	76	86
Pentagon	Blue	101	73	96	81
Rosslyn		92	94	101	98
L'Enfant Plaza		60	62	56	61
Court House	Orange	99	92	97	108
L'Enfant Plaza		67	69	56	64
Pentagon	Yellow	79	93	93	84
Waterfront	Green	81	78	82	79
Shaw-Howard		72	68	87	74
Rosslyn	Silver	85	100	103	103
L'Enfant Plaza		70	67	51	68
PM Rush Max Load Points					
Metro Center	Red	82	78	72	89
Farragut North		113	93	80	84
Rosslyn	Blue	100	103	100	98
Foggy Bottom-GWU		49	57	117	99
Smithsonian		81	90	46	59
Foggy Bottom-GWU	Orange	65	61	95	102
Smithsonian		79	87	68	70
L'Enfant Plaza	Yellow	89	73	91	89
L'Enfant Plaza	Green	59	64	86	81
Mt. Vernon Square		81	91	76	69
Foggy Bottom-GWU	Silver	61	68	90	107
L'Enfant Plaza		67	63	55	66

continued

ESCALATOR SYSTEM AVAILABILITY [TARGET 93%]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	93%	93%	93%	93%	93%	93%	94%	93%	94%	94%	93%	93%	93%
FY 2017	93%	92%	93%	94%	94%	94%	95%	95%	96%	96%	96%	95%	93%
FY 2018	95%	94%	95%										95%

ELEVATOR SYSTEM AVAILABILITY [TARGET 97%]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	97%	97%	96%	96%	96%	97%	97%	97%	97%	97%	97%	97%	97%
FY 2017	96%	97%	97%	97%	97%	97%	96%	97%	97%	97%	98%	97%	96%
FY 2018	97%	97%	97%										97%

KPI: CUSTOMER INJURY RATE (PER MILLION PASSENGERS) [TARGET ≤ 1.75]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	0.81	2.53	1.70	2.05	1.37	1.35	3.29	2.22	1.75	2.13	1.91	2.15	1.65
FY 2017	1.78	1.79	2.01	1.73	1.68	2.63	2.14	2.59	2.17	1.41	2.19	1.71	1.86
FY 2018	1.61	1.87	2.49										1.99

\*Includes Metrobus, Metrorail, rail transit facilities (stations, escalators and parking facilities) and MetroAccess customer injuries

FIRE AND SMOKE INCIDENTS													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2017	2	8	4	8	3	8	7	5	7	15	6	10	14
Non-Electrical	1	2	2	3	1	6	3	2	1	4	2	3	5
Cable	0	0	1	0	0	0	0	0	1	0	0	0	1
Arcing Insulator	1	6	1	5	2	2	4	3	5	11	4	7	8
FY 2018	15	8	9										32
Non-Electrical	5	2	4										11
Cable	1	1	0										2
Arcing Insulator	9	5	5										19

continued

RED SIGNAL OVERRUNS													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2017	4	2	1	1	1	1	2	1	1	1	0	0	7
FY 2018	0	0	1										1

BUS PEDESTRIAN STRIKES [PEDESTRIAN / CYCLIST STRIKES]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2017	1	1	3	3	0	1	1	1	3	2	0	1	5
FY 2018	3	0	0										3

BUS COLLISION RATE [PER MILLION VEHICLE MILES]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2017	52	60	61	69	56	61	53	54	60	58	58	55	60
FY 2018	58	63	57										59

KPI: CRIME RATE													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	4.7	5.5	6.2	6.9	5.4	4.7	6.1	4.4	4.3	4.1	6.1	5.0	5.5
FY 2017	6.3	6.2	5.4	4.9	4.5	4.9	4.5	3.8	3.5	4.2	4.6	4.5	6.0
FY 2018	4.6	4.8	5.2										4.8

KPI: PART I CRIMES [TARGET ≤ 1,750 PART I CRIMES]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	144	153	172	199	135	119	129	109	122	114	161	137	469
FY 2017	160	163	140	126	107	111	110	87	92	107	120	119	463
FY 2018	113	122	127										362

continued

PART I CRIMES BY TYPE													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
Crimes Against Property	69	85	98										252
Larceny (Snatch/ Pickpocket)	12	21	11										44
Larceny (Other)	51	59	83										193
Burglary	0	0	0										0
Motor Vehicle Theft	6	4	3										13
Attempted M V Theft	0	1	1										2
Arson	0	0	0										0
Crimes Against Persons	44	37	29										110
Aggravated Assault	13	11	10										34
Rape	1	1	0										2
Robbery	30	25	19										74
FY 2018 Part I Crimes	113	122	127										362
FY 2018 Homicides	0	0	0										0

\* Homicides that occur on WMATA property are investigated by other law enforcement agencies. These cases are shown for public information; however, the cases are reported by the outside agency and are not included in MTPD crime statistics.

EMPLOYEE INJURY RATE (PER 200,000 HOURS) [TARGET ≤ 5.1]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	5.1	6.1	3.7	4.9	4.3	3.7	6.2	5.4	4.4	5.7	5.1	4.9	5.0
FY 2017	6.2	5.3	6.1	5.7	4.3	6.0	4.5	4.4	7.7	7.1	6.6	7.0	5.8
FY 2018	7.3	6.6	7.7										7.2

continued

KPI: RIDERSHIP BY MODE [BUDGET FORECAST 341.5 MILLION]														
		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
Rail	Forecast	15,529,935	15,886,945	14,994,420										46,411,300
	Actual	15,195,047	15,291,378	14,446,237										44,932,662
Bus	Forecast	9,942,000	10,481,000	10,060,100										30,483,000
	Actual	9,375,256	10,042,871	9,766,326										29,184,453
Access	Forecast	195,000	210,000	201,000										606,000
	Actual	186,699	206,014	191,051										583,764
Total	Forecast	25,666,935	26,577,945	25,255,420										77,500,300
	Actual	24,757,002	25,540,263	24,403,614										74,700,879

KPI: BUDGET MANAGEMENT [TARGET 0-2 % SURPLUS]													
FY2018	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
Expense Variance (\$)	(\$7)	(\$25)	(\$27)										(\$27)
Revenue Variance (\$)	(\$2)	(\$5)	(\$9)										(\$9)
Net Subsidy Variance (\$)	(\$5)	(\$20)	(\$19)										(\$19)
Expense Variance (%)	-5%	-8%	-6%										-6%
Revenue Variance (%)	-2%	-4%	-4%										-4%
Net Subsidy Variance (%)	-6%	-13%	-8%										-8%
Surplus (+) / Deficit (-)	4%	7%	4%										4%

KPI: CAPITAL FUNDS INVESTED [TARGET 95% OF CAPITAL BUDGET]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	1%	6%	16%	17%	25%	34%	38%	44%	55%	58%	66%	85%	16%
FY 2017	5%	14%	25%	33%	41%	51%	59%	66%	74%	82%	89%	99%	25%
FY 2018	5%	12%	18%										18%

\* FY2017 includes capital budget amendment (\$1.175 billion)

continued

VACANCY RATE [TARGET 5%]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	7%	6%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%
FY 2017	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	6%	7%	5%
FY 2018	7%	8%	8%										8%

OPERATIONS CRITICAL VACANCY RATE [TARGET 9%]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016							11%	11%	12%	12%	10%	11%	N/A
FY 2017	10%	10%	10%	8%	8%	8%	7%	7%	7%	8%	8%	11%	10%
FY 2018	13%	12%	13%										13%

WATER USAGE (GALLONS PER VEHICLE MILE) [TARGET 0.84]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	1.21	1.30	1.47	0.97	0.57	0.52	0.70	0.73	0.60	0.69	0.64	0.94	1.32
FY 2017	1.37	1.29	1.56	1.05	0.61	0.50	0.69	0.52	0.64	0.66	0.67	1.13	1.40
FY 2018	1.25	1.39	1.39										1.35

ENERGY USAGE (BTU/VEHICLE MILE) [TARGET 39,399]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	40,193	41,349	39,798	39,262	37,639	42,240	47,371	43,640	37,952	38,660	37,365	39,565	40,449
FY 2017	42,404	39,734	44,477	37,665	38,352	40,112	45,493	42,813	39,927	40,877	36,782	41,244	42,148
FY 2018	41,548	38,877	39,939										40,097

GREENHOUSE GAS EMISSIONS PER VEHICLE MILE [TARGET 4.00]													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2016	4.15	4.18	4.18	4.06	3.79	4.31	4.47	4.14	3.56	3.75	3.57	3.79	4.12
FY 2017	4.11	3.80	4.34	3.63	3.66	3.81	4.54	4.34	3.95	4.22	3.77	4.29	4.15
FY 2018	4.34	4.03	4.22										

continued



DBE AWARDS/COMMITMENTS FOR FFY17, PERIOD 1 (OCT 1, 2016 – MAR. 31 2017)									
	Total Dollars	Total Number	Total Dollars to DBEs	Total Number to DBEs	Total Dollars to DBEs/Race Conscious	Total Number to DBEs/Race Conscious	Total Dollars to DBEs/Race Neutral	Total Number to DBEs/Race Neutral	Percentage of Total Dollars to DBEs
Prime Contracts Awarded	\$177,879,050	18	\$2,340,175	4	\$0	0	\$2,340,175	4	1.32%
Subcontracts Awarded/Committed	\$13,557,898	8	\$13,545,528	7	\$13,545,528	7	\$0	0	99.91%
Total			\$15,885,703	11	\$13,545,528	7	\$2,340,175	4	8.93%

## Key Performance Indicator (KPI) & Key Driver Definitions

KPI	How is it measured?	What does this mean and why is it key to our strategy?
<b>QUALITY SERVICE</b>		
Customer Satisfaction	<p>Survey respondent rating</p> $\frac{\text{Number of survey respondents with high satisfaction}}{\text{Total number of survey respondents}}$	<p>Surveying customers about the quality of Metro's service delivery provides a mechanism to continually identify those areas of the operation where actions to improve the service can maximize rider satisfaction.</p> <p>Customer satisfaction is defined as the percent of survey respondents who rated their last trip on Metrobus or Metrorail as "very satisfactory" or "satisfactory." The survey is conducted via phone with approximately 400 bus and 400 rail customers who have ridden Metro in the past 30 days. Results are summarized by quarter (e.g., January–March).</p>
MetroAccess On-Time Performance	<p>Adherence to Schedule</p> $\frac{\text{Number of vehicle arrivals at the pick-up location within the 30 minute on-time widow}}{\text{Total trips delivered}}$	<p>This indicator illustrates how closely MetroAccess adheres to customer pick-up windows on a system-wide basis. Factors that effect on-time performance are traffic congestion, inclement weather, scheduling, vehicle reliability, and operational behavior. MetroAccess on-time performance is essential to delivering quality service to the customer.</p>
Metrobus On-Time Performance	<p>Adherence to Schedule</p> $\frac{\text{Number of time points that arrived on time by route based on a window of 2 minutes early and 7 minutes late}}{\text{Total number of time points scheduled (by route)}}$	<p>This indicator illustrates how closely Metrobus adheres to published route schedules on a system-wide basis. Factors that effect on-time performance are traffic congestion, inclement weather, scheduling, vehicle reliability, and operational behavior. Bus on-time performance is essential to delivering quality service to the customer.</p>
Bus Fleet Reliability	<p>Mean Distance Between Failures (MDBF)</p> $\frac{\text{The number of total miles traveled before a mechanical breakdown requiring the bus to be removed from service or deviate from the schedule}}{\text{Total number of buses}}$	<p>Mean Distance Between Failures is used to monitor trends in vehicle breakdowns that cause buses to go out of service and to plan corrective actions. Factors that influence bus fleet reliability include vehicle age, quality of maintenance program, original vehicle quality, and road conditions affected by inclement weather and road construction.</p>
Bus Crowding	<p>Ratio of bus seats filled</p> $\frac{\text{Top load recorded on a route during a time period}}{\text{actual bus seat capacity}}$	<p>Bus crowding is a factor of bus customer satisfaction. This measure can inform decision making regarding bus service plans.</p>
Metrorail Customer On-Time Performance	<p>Percentage of customer journeys completed on time</p> $\frac{\text{Number of journeys completed on time}}{\text{Total number of journeys}}$	<p>Rail Customer On-Time Performance (OTP) communicates the reliability of rail service, which is a key driver of customer satisfaction. OTP measures the percentage of customers who complete their journey within the maximum amount of time it should take per WMATA service standards. The maximum time is equal to the train run-time + a headway (scheduled train frequency) + several minutes to walk between the fare gates and platform. These standards vary by line, time of day, and day of the week. Actual journey time is calculated from the time a customer taps a SmarTrip® card to enter the system, to the time when the SmarTrip® card is tapped to exit.</p> <p>Factors that can effect OTP include: railcar availability, fare gate availability, elevator and escalator availability, infrastructure conditions, speed restrictions, single-tracking around scheduled track work, railcar delays (e.g., doors), or delays caused by sick passengers.</p>

KPI	How is it measured?	What does this mean and why is it key to our strategy?
Rail Infrastructure Availability	Percentage of track available for customer travel during operating hours	Rail Infrastructure Availability is a key driver of customer on-time performance. Planned and unplanned maintenance of track, signaling, and traction power can result in single-tracking and/or speed restrictions that slow customer travel throughout the system. This measure includes both the duration and distance of restrictions. Single-tracking events reduce availability to zero for the portion of track impacted. Slow speed restrictions reduce availability of affected track segments by 85%, while medium restrictions reduce availability by 40%.
Guideway Condition (Federal Transit Administration Transit Asset Management Performance Measure)	Percentage of track segments with performance restrictions at 9:00 AM the first Wednesday of every month  Number of track miles with performance restrictions ÷ 234 total miles	In 2016, the Federal Transit Administration (FTA) issued its Final Rule on Transit Asset Management, which requires transit properties to set targets and report performance on a variety of measures, including guideway condition. Guideway includes track, signals and systems.  A performance restriction occurs when there is a speed restriction: the maximum train speed is set below the guideway design speed. Performance restrictions may result from a variety of causes, including defects, signaling issues, construction zones, and maintenance causes. FTA considers performance restrictions to be a proxy for both track condition and the underlying guideway condition.
Train On-Time Performance	Number of station stops delivered within the scheduled headway plus 2 minutes during rush (AM/PM) service ÷ Total station stops delivered  Number of station stops delivered up to 150% of the scheduled headway during non-rush (midday and evening) ÷ Total station stops delivered	Train on-time performance measures the adherence to weekday headways, or the time customers wait between trains. Factors that can effect on-time performance include: infrastructure conditions, missed dispatches, railcar delays (e.g., doors), or delays caused by sick passengers. Station stops are tracked system-wide, with the exception of terminal and turn-back stations.
Rail Fleet Reliability	Mean Distance Between Delays (MDBD)  Total railcar revenue miles ÷ Number of failures during revenue service resulting in delays of four or more minutes  Mean Distance Between Failure (MDBF)  Total railcar revenue miles ÷ Total number of failures occurring during revenue service	The number of miles traveled before a railcar experiences a failure. Some car failures result in inconvenience or discomfort, but do not always result in a delay of service (such as hot cars). Mean Distance Between Delay includes those failures that had an impact on customer on-time performance.  Mean Distance Between Failure and Mean Distance Between Delay communicate the effectiveness of Metro's railcar maintenance and engineering program. Factors that influence railcar reliability are the age and design of the railcars, the amount the railcars are used, the frequency and quality of preventive maintenance, and the interaction between railcars and the track.
Trains in Service	Percentage of required trains that are in service at 8:15 AM and 5:00PM  Number of Trains in service ÷ Total required trains	Trains in Service is a key driver of customer on-time performance and supports the ability to meet the Board standard for crowding. WMATA's base rail schedule requires 140 trains during rush periods. Fewer trains than required results in missed dispatches, which leads to longer wait times for customers and more crowded conditions. Key drivers of train availability include the size of the total fleet and the number of "spares", railcar reliability and average time to repair, operator availability, and balancing cars across rail yards to ensure that the right cars are in the right place at the right time.

KPI	How is it measured?	What does this mean and why is it key to our strategy?
Rail Crowding	<p>Number of rail passengers per car</p> <p>Total passengers observed on-board trains passing through a station during a rush hour ÷ Actual number of cars passing through the same station during the rush hour</p> <p>Trained Metro observers are strategically placed around the system during its busiest times to monitor and report on crowding.</p> <p>Counts are taken at select stations where passenger loads are the highest and in the predominant flow direction of travel on one to two dates each month (from 6 AM to 10 AM and from 3 PM to 7 PM). In order to represent an average day, counts are normalized with rush ridership.</p>	<p>The Board of Directors has established Board standards of rail passengers per car to measure railcar crowding. Car crowding informs decision making regarding asset investments and scheduling.</p> <p>Additional Board standards have been set for:</p> <ul style="list-style-type: none"> <li>▲ Hours of service—the Metrorail system is open to service customers</li> <li>▲ Headway—scheduled time interval between trains during normal weekday service</li> </ul>
Elevator and Escalator Availability	<p>In-service percentage</p> <p>Hours in service ÷ Operating hours</p> <p>Hours in service = Operating hours – Hours out of service</p> <p>Operating hours = Operating hours per unit × number of units</p>	<p>Escalator/elevator availability is a key component of customer satisfaction with Metrorail service. This measure communicates system-wide escalator and elevator performance (at all stations over the course of the day) and will vary from an individual customer's experience.</p> <p>Availability is the percentage of time that Metrorail escalators or elevators in stations and parking garages are in service during operating hours.</p> <p>Customers access Metrorail stations via escalators to the train platform, while elevators provide an accessible path of travel for persons with disabilities, seniors, customers with strollers, and travelers carrying luggage. An out-of-service escalator requires walking up or down a stopped escalator, which can add to travel time and may make stations inaccessible to some customers. When an elevator is out of service, Metro is required to provide alternative services which may include shuttle bus service to another station.</p>

## SAFETY AND SECURITY

Customer Injury Rate	<p>Customer injury rate:</p> <p>Number of injuries ÷ (Number of passengers ÷ 1,000,000)</p>	<p>The customer injury rate is based on National Transit Database (NTD) Reporting criteria. It includes injury to any customer caused by some aspect of Metro's operation that requires immediate medical attention away from the scene of the injury.</p> <p>Customer safety is the highest priority for Metro and a key measure of quality service. Customers expect a safe and reliable ride each day. The customer injury rate is an indicator of how well the service is meeting this safety objective.</p>
Crime	Reported Part I Crimes	<p>Part I crimes reported to Metro Transit Police Department for Metrobus (on buses), Metrorail (on trains and in rail stations), or at Metro-owned parking lots in relation to Metro's monthly passenger trips.</p> <p>This measure provides an indicator of the perception of safety and security customers experience when traveling the Metro system. Increases or decreases in crime statistics can have a direct effect on whether customers feel safe in the system.</p>

KPI	How is it measured?	What does this mean and why is it key to our strategy?
Employee Injury Rate	<p>Employee injury rate:</p> $\text{Number of injuries} \div (\text{Total work hours} \div 200,000)$	<p>An employee injury is recorded when the injury is (a) work related; and, (b) one or more of the following happens to the employee: 1) receives medical treatment above first aid, 2) loses consciousness, 3) takes off days away from work, 4) is restricted in their ability to do their job, 5) is transferred to another job, 6) death.</p> <p>OSHA recordable injuries are a key indicator of how safe employees are in the workplace.</p>

## PEOPLE AND ASSETS

Ridership	<p>Total Metro ridership</p> $\text{Metrorail passenger trips} + \text{Metrobus passenger boardings} + \text{MetroAccess passenger trips}$	<p>Ridership is a measure of total service consumed and an indicator of value to the region. Drivers of this indicator include service quality and accessibility.</p> <p>Passenger trips are defined as follows:</p> <ul style="list-style-type: none"> <li>▲ Metrorail reports passenger trips. A passenger trip is counted when a customer enters through a faregate. In an example where a customer transfers between two trains to complete their travel one trip is counted.</li> <li>▲ Metrobus reports passenger boardings. A passenger boarding is counted at the farebox when a customer boards a Metrobus. In an example where a customer transfers between two Metrobuses to complete their travel two trips are counted.</li> <li>▲ MetroAccess reports passenger trips. A fare paying passenger traveling from an origin to a destination is counted as one passenger trip.</li> </ul> <p>*For performance measures and target setting, Metro uses total ridership numbers including passengers on bus shuttles to more fully reflect total passengers served. Metro does not include bus shuttle passenger trips in its budget or published ridership forecasts.</p>
Budget Management	<p>Percentage surplus or deficit comparing actual revenues and subsidy to actual expenses</p> $(\text{actual revenues} + \text{subsidy} - \text{actual expenses}) \div \text{actual expenses}$	<p>This indicator tracks Metro's progress managing its operating revenues and expenses.</p>
Capital Funds Invested	<p>Percentage of capital budget spend</p> $\text{Cumulative monthly capital expenditures} \div \text{fiscal year capital budget, including actual rollover from previous fiscal year}$	<p>This indicator tracks spending progress of the Metro Capital Improvement Program.</p>
Vacancy Rate	<p>Percentage of budgeted positions that are vacant</p> $(\text{Number of budgeted positions} - \text{number of employees in budgeted positions}) \div \text{number of budgeted positions}$	<p>This measure indicates how well Metro is managing its human capital strategy to recruit new employees in a timely manner, in particular operations-critical positions. Factors influencing vacancy rate can include: recruitment activities, training schedules, availability of talent, promotions, retirements, among other factors.</p>

KPI	How is it measured?	What does this mean and why is it key to our strategy?
Water Usage	<p>Rate of gallons of water consumed per vehicle mile</p> <p>Total gallons of water consumed ÷ Total vehicle miles</p>	This measure reflects the level of water consumption Metro uses to run its operations. Water consumption is a key area of Metro's Sustainability Initiative, which brings focus to Metro's efforts to provide stewardship of the environmental systems that support the region.
Energy Usage	<p>Rate of British Thermal Units (BTUs) consumed per vehicle mile</p> <p>MBTU(Gasoline + Natural Gas + Compressed Natural Gas + Traction Electricity + Facility Electricity) × 1000 ÷ Total vehicles miles</p>	This measure reflects the level of various types of energy Metro uses to power its operations. Energy consumption is a key area of Metro's Sustainability Initiative, which brings focus to Metro's efforts to provide stewardship of the environmental systems that support the region.
Greenhouse Gas Emissions	<p>Rate of metric tons of CO<sub>2</sub> emitted per vehicle mile</p> <p>(CO<sub>2</sub> metric tons generated from gas, CNG and diesel used by Metro revenue and non-revenue vehicles + CO<sub>2</sub> metric tons generated from electricity and natural gas used by facilities and rail services) ÷ Total vehicle miles</p>	Greenhouse Gas emissions reflect how Metro sources its energy used to power its operations, as well as the amount of energy it uses. Reducing Greenhouse Gas emissions is a key area of Metro's Sustainability Initiative, which brings focus to Metro's efforts to provide stewardship of the environmental systems that support the region.
Disadvantage Business Enterprise (DBE) Contracts	<p>DBE Participation Rate (only considers federally-funded contracts):</p> <p>Total contract dollars committed to DBEs ÷ Total contract dollars awarded to all Vendors (DBEs and Non-DBEs)</p>	<p>FTA DOT's DBE Program seeks to ensure nondiscrimination in the award and administration of DOT-assisted contracts.</p> <p>DBE Participation Rate provides visibility into how well WMATA is doing to ensure that DBEs are awarded a specified percentage (target) of contracted work at WMATA. Transit vehicle purchases may not be considered in the calculation.</p>