

January-March 2017
Published: May 2017

#### **TABLE OF CONTENTS**

Customer Satisfaction 3
MetroAccess4
Metrobus
Metrorail6
Safety & Security 8
Ridership 10
Fiscal11
Performance Data 12
Definitions24

## **Key Performance Indicators**

## **Bus On-Time Performance**

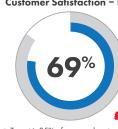


Target ≥ 79% on-time

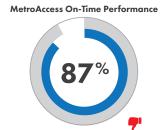
**Customer Satisfaction – Bus** 



Customer Satisfaction - Rail



Target ≥ 85% of surveyed customers



Target ≥ 92% on-time



Budget Forecast 251.3 million passengers



■Target ≤ 1.75 per million passengers





Target ≤ 1,750 Part I Crimes

## **Key Drivers**

**Bus Fleet Reliability** 

Target ≥ 85% of surveyed customers



Target ≥ 8,000 miles between failure

#### **Rail Fleet Reliability**



Target ≥ 75,000 miles between delay

#### **Elevator Availability**



Target ≥ 97%

#### **Escalator Availability**



Target ≥ 93%

#### **Rail Infrastructure Availability**



RESULT BETTER THAN EXPECTED

▲ ACCEPTABLE RESULT AT-RISK RESULT

**UNACCEPTABLE RESULT** 

Percentages rounded to the nearest whole number



Pilot KPI

#### **Net Operating Position**



Target 0 to 2% surplus

#### **Capital Funds Invested**



Target ≥ 95%

## **Path to Improved Performance**



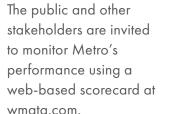




**Balanced scorecard** approach, but focus is Metro's core business of quality service delivery



What gets measured gets managed, leading to improved performance



Vital Signs communicates

performance to the Board of

Directors on a quarterly and

the transit system's

annual basis.

Metro's managers measure what matters and hold themselves accountable to stakeholders via a focused set of Key Performance Indicators (KPIs) reported publicly in Vital Signs.



**What** actions are being taken to improve?



**Why** did performance change?



Answer three questions...

Is Metro achieving its four strategic goals?



Utilizing systematic, **data-driven** analysis



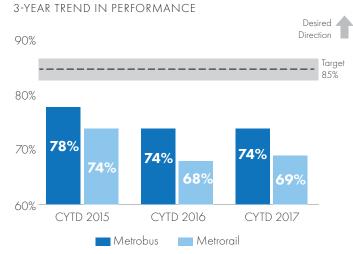
**Targeting** that gauges progress and identifies success

Customer satisfaction remained steady this quarter, statistically unchanged with the previous year; motivators of rail customer satisfaction generally moved in a positive direction this quarter, although most changes were not statistically significant



### Key actions to improve performance

- Implement efforts to improve bus and rail customer on-time performance, including:
  - » Reduce bus early arrivals
  - » Adjust schedules to allow operators sufficient time to complete their runs
  - » Execute "Get Well" plan for railcars and retire least reliable series
  - » Complete SafeTrack and implement new preventive maintenance program to improve the condition of rail infrastructure
- ▶ Improve station management and make stations cleaner and brighter to better serve customers
- Continually adjust police tactics and resource allocation to address changing crime hotspots

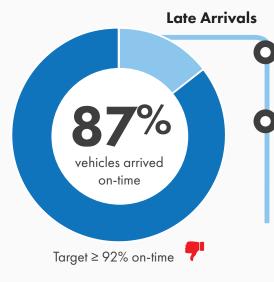


## **KPI: MetroAccess On-Time Performance**



Due to acute shortages of paratransit operators, fewer MetroAccess vehicles arrived within the on-time window during the first quarter of CY2017 compared to last year

What caused vehicles to not arrive on-time?



## **Operations Related Delays**

» Acute shortages of paratransit operators, which began in earnest during September 2016, continues to significantly impact service delivery and performance systemwide

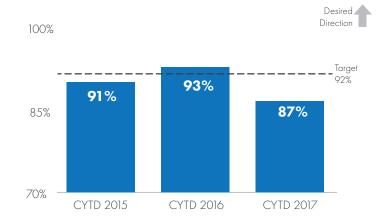
## **Operating Environment Related Delays**

» MetroAccess ridership continues to be at the highest level since 2011 – increasing 6% compared to Q1/2016 – resulting in a strain on resources

### Key actions to improve performance

- Work closely with service providers to improve operator staffing levels and restore performance across the board
- Launch Abilities-Ride Program
- Issue a Request for Proposal (RFP) for paratransit services seeking contractors with demonstrated effectiveness in managing and providing ADA-compliant, complementary paratransit service

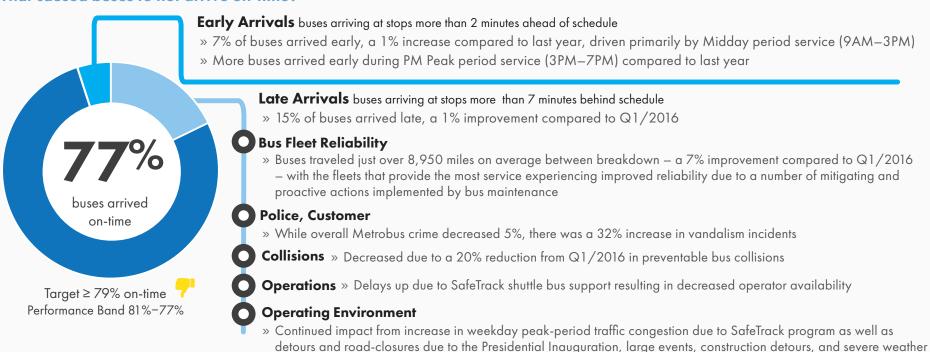
#### 3-YEAR TREND IN PERFORMANCE





## Q1/2017 on-time performance of 77% declined slightly compared to last year due to an increase in buses arriving early across all service periods





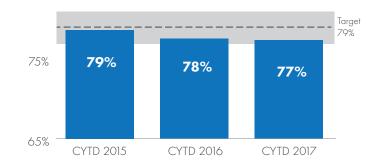
### Key actions to improve performance

- Focus on reducing early arrivals through on-board bus technology and increased communication to operators
- Assess running time of low-performing routes to determine if scheduling adjustments are needed
- Implement Eyes on the Street program for bus management staff to interact with bus operators and customers to identify and monitor accident hot spot locations, unsafe behaviors, and low-performing routes weekly
- Continue to retire less-reliable, older buses, and complete mid-life overhauls annually

#### 3-YEAR TREND IN PERFORMANCE

8.5%

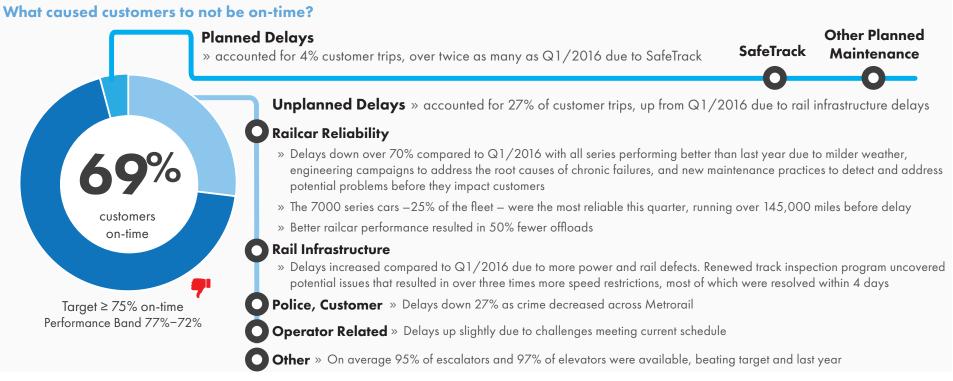




### **KPI: Metrorail Customer On-Time Performance**

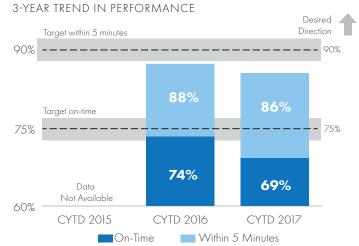


Although below target and unfavorable compared to this same time last year, Metrorail had the best on-time performance since SafeTrack began in June 2016 thanks, in part, to decreases in the number of railcar-related incidents



#### Key actions to improve performance

- Continue to execute a "Get Well" plan for railcars to further reduce offloads and cut delays
  - » Work with Kawasaki to continue to address failures with the 7000 series as they arise
- Complete SafeTrack and implement new, aggressive preventive maintenance efforts designed to cut infrastructure-related delays in half
- Implement a new schedule in July 2017 to allow sufficient time for operators to complete their runs and take needed breaks
- Repair escalators, elevators and faregates to enable smooth flow of passengers through station

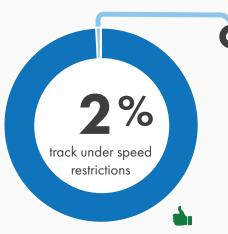




Rail Infrastructure was a key driver of customer on-time performance this quarter; planned and unplanned track work resulted in single-tracking and speed restrictions slowed train travel

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

## **Guideway Condition**

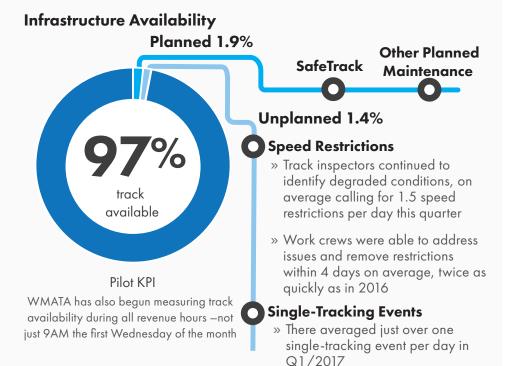


Target < 5% under speed restriction

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

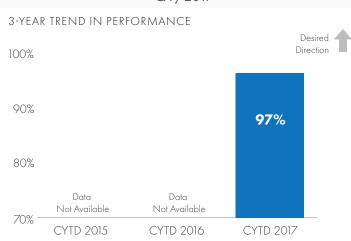
## Speed Restrictions

- » On average this quarter, 2% of track was under speed restriction at 9AM the first Wednesday of every month
- » Performance was better than target due to fewer planned restrictions than projected
- » This quarter, no SafeTrack work was performed during the first Wednesday of the month



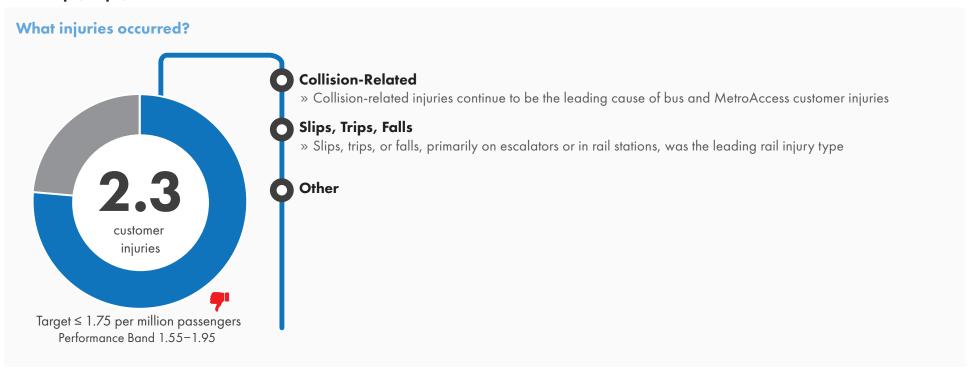
### Key actions to improve performance

- Reduce impact of planned maintenance on customer travel by completing SafeTrack in June 2017
- Implement new, aggressive preventive maintenance efforts that will cut unplanned delays by half by July 2019
- Continue to conduct track inspections to identify and fix degraded conditions before they become safety hazards





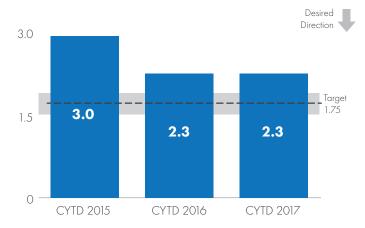
Customer injuries were worse than target this quarter and consistent with the same period last year, led by bus collisions and slips, trips, or falls in rail stations



## Key actions to improve performance

- 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

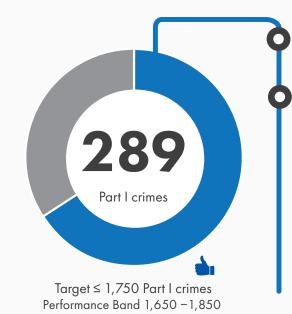
#### 3-YEAR TREND IN PERFORMANCE





# Part I crimes decreased 20% compared to the same period last year with significant decreases in both crimes against persons and crimes against property

#### What crimes occurred?



#### **Crimes Against Property**

» Crimes against property, accounting for the majority of total Part I crimes, declined 13% compared to prior year led by a 10% decrease in overall larcenies

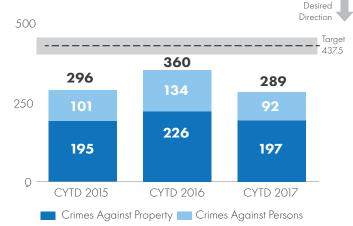
### **Crimes Against Persons**

» Crimes against persons declined 31% overall with decreases in aggravated assaults (49%) and robberies (23%)

## Key actions to improve performance

- Continually adjust police tactics and resource allocation to address changing crime hot spots
- Continue increased presence of police officers in the rail system through surge details during shift transitions and evening hours, use of specialized units to enhance deployments, and fixed detail assignments at hot spots
- Sustain the fare evasion initiative on rail and bus, which so far has led to a doubling of written enforcement actions compared to the same period last year, and continue the collaboration between police and bus operators to reduce bus crime and operator assaults

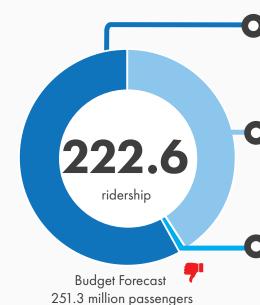
## 3-YEAR TREND IN PERFORMANCE





### Through Q3/FY2017, total ridership was 222.6 million, 11% below forecasted ridership of 251.3 million

## How much service was consumed?



#### Metrorail

- » Through Q3/FY2017, ridership was 129.6 million, 13% below forecast
- » Average weekday ridership FYTD was 595,000, a year-over-year decrease of 10%
- » Off-peak hours, including weekends, declined twice as much as peak ridership

#### Metrobus

- » Through Q3/FY2017, ridership was 91.2 million, 9% below forecast
- » Average weekday bus ridership was 406,000, a 4% decrease from the first nine months of FY2016
- » Bus trips where passengers connect to rail are only about a quarter of total bus trips but accounted for about 75% of the ridership decline

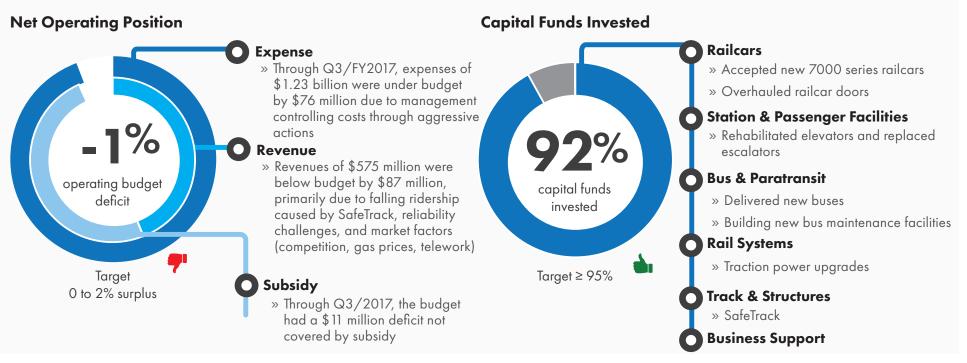
#### MetroAccess

- » Through Q3/FY2017, ridership was 1.8 million, 2% below forecast
- » MetroAccess averaged 8,000 trips per weekday, and is up 4% compared to the same period last year

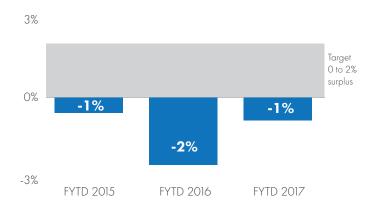
#### 3-YEAR TREND IN PERFORMANCE Desired 4 Direction 300M 251.5 239.3 222.6 Forecast 98.6 251.3 95.0 200M 91.2 100M 151.0 142.6 129.6 FYTD 2015 FYTD 2016 FYTD 2017 Metrorail Metrobus MetroAccess



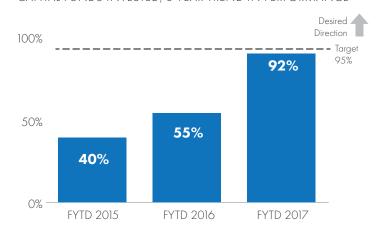
Through Q3/2017, the operating budget had a 1% deficit due to declining revenues outpacing expense reductions; 92% of the originally budgeted \$950 million in capital funds were invested\*



NET OPERATING POSITION, 3-YEAR TREND IN PERFORMANCE



#### CAPITAL FUNDS INVESTED, 3-YEAR TREND IN PERFORMANCE



<sup>\*</sup>In November 2016, the capital budget was amended to \$1.1 billion to support SafeTrack and accelerated delivery of 7000 series railcars

Performance Data

KPI: METROBUS	CUSTOMER	SATISFACTIC	N RATING [1	ARGET 85%	]
	Q1	Q2	Q3	Q4	YTD
CY2015	78%	75%	82%	81%	78%
CY2016	74%	78%	78%	79%	74%
CY2017	74%				74%

KPI: METRORAIL	CUSTOMER	SATISFACTIO	ON RATING [	TARGET 85%	]
	Q1	Q2	Q3	Q4	YTD
CY2015	74%	73%	67%	69%	74%
CY2016	68%	66%	66%	66%	68%
CY2017	69%				69%

KPI: METROACC	ESS ON-TIM	E PERFORMA	NCE [TARGE	T 92%]									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2015	93.0%	89.1%	89.4%	92.0%	92.9%	93.5%	94.8%	94.7%	93.9%	93.0%	93.4%	93.7%	90.5%
CY 2016	93.7%	93.1%	93.0%	92.5%	93.0%	92.3%	92.0%	91.4%	83.8%	83.4%	83.6%	86.9%	93.3%
CY 2017	88.0%	87.4%	85.4%										86.9%

KPI: METROBUS	ON-TIME PI	ERFORMANC	E [TARGET 79	9%]									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2015	79.9%	78.9%	77.2%	76.8%	75.6%	77.3%	79.1%	80.4%	76.2%	75.6%	76.8%	78.4%	78.7%
CY 2016	77.0%	78.4%	77.7%	77.3%	76.5%	74.7%	77.1%	77.3%	72.5%	73.0%	72.5%	76.1%	77.6%
CY 2017	77.4%	77.7%	77.0%										77.4%

<b>KPI: METROBUS</b>	ON-TIME PE	RFORMANC	E BY TIME PE	RIOD [TARG	ET 79%]								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Early AM (4AM-6AM)	87.2%	87.8%	88.1%										87.7%
AM Peak (6AM-9AM)	80.4%	81.6%	80.6%										80.9%
Mid Day (9AM-3PM)	78.7%	79.1%	78.5%										78.7%
PM Peak (3PM-7PM)	70.7%	70.9%	69.4%										70.3%
Early Night (7PM-11PM)	79.2%	78.4%	78.5%										78.7%
Late Night (11 PM-4AM)	78.3%	78.4%	78.9%										78.5%

BUS FLEET RELIA	BILITY (BUS	MEAN DISTA	ANCE BETWE	EN FAILURES	) [TARGET 8	,000 MILES]							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2015	6,259	7,434	6,109	7,016	6,405	7,328	6,499	7,327	7,542	7,307	9,121	7,893	6,535
CY 2016	8,442	8,332	8,359	9,138	8,711	7,736	7,540	7,425	8,428	8,378	8,262	8,421	8,368
CY 2017	7,962	9,881	9,254										8,953

BUS FLEET RELIA	BUS FLEET RELIABILITY (BUS MEAN DISTANCE BETWEEN FAILURE BY FLEET TYPE)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CNG	6,788	9,117	7,903										7,784
Hybrid	9,489	11,293	11,418										10,673
Clean Diesel	6,274	7,319	6,165										6,525
All Other	3,515	4, 137	3,816										3,793

Q1/2017 TOP 10	D MOST CROWDED BUS ROUTES BY .	IURISDICTIO	N		
Service Code	Line Name	Route Name	Time Period	Highest Passenger Load	Load Factor
	16th Street	S4*	AM Peak	118	1.9
	Benning Road - H Street	X2*	AM Peak	113	2.0
	16th Street	S2*	AM Peak	110	2.0
	Georgia Ave - 7th Street	70*	PM Peak	109	2.0
DC	Georgia Ave - 7th Street	70*	Midday	105	2.0
DC	16th Street - Potomac Park	S1*	AM Peak	104	2.0
	16th Street	S2*	PM Peak	102	2.0
	Georgia Avenue - 7th Street	70*	AM Peak	99	1.7
	Benning Road - H Street	X2*	Midday	98	2.0
	Benning Road - H Street	X2*	PM Peak	95	2.0
	New Carrollton - Silver Spring	F4	PM Peak	77	1.9
	Greenbelt-Twinbrook	C4	PM Peak	77	1.9
	Eastover - Addison Road	P12	PM Peak	77	1.9
	Greenbelt - Twinbrook	C4	Midday	76	1.9
MD	New Hampshire Ave - Maryland	K6	PM Peak	75	1.8
MD	Greenbelt - Twinbrook	C2	Midday	75	1.9
	New Carrollton - Silver Spring	F4	Midday	74	1.9
	Fairland	Z8	Midday	73	1.9
	New Carrollton - Silver Spring	F4	AM Peak	73	1.8
	Georgia Avenue - Maryland	Y8	Midday	73	1.8
	Ballston - Farragut Square	38B	AM Peak	71	1.8
	Mt. Vernon Express	11 Y	AM Peak	70	1.7
	Lincolnia - North Fairlington	7Y	PM Peak	68	1.7
	Ballston - Farragut Square	38B	PM Peak	68	1.7
1/4	Lee Highway - Farragut Square	3Y	AM Peak	68	1.7
VA	Columbia Pike - Farragut Square	16Y	AM Peak	68	1.7
	Columbia Pike - Farragut Square	16Y	PM Peak	68	1.7
	Mt. Vernon Express	11 Y	PM Peak	67	1.6
	Lincolnia - North Fairlington	7Y	AM Peak	65	1.6
	Columbia Pike	16A	PM Peak	65	1.6

Performance Thresholds	Max Load Factor
Below Threshold	< .3
Standards Compliant	.35
Occasional Crowding	.67
Recurring Crowding	.89
Regular Crowding	1.0 - 1.3
Continuous Crowding	> 1.3

<sup>\*</sup> Route has articulated buses, allowing for passenger load above 100

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

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

	Jan	Feb	Mar	Apr	Max	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
21.001.				Apr	May				· · · · · · · · · · · · · · · · · · ·				
CY 2016	70%	72%	78%	80%	69%	71%	71%	69%	64%	65%	61%	63%	74%
CY 2017	66%	71%	70%										69%
KPI: METRORA	IL CUSTOMER	ON-TIME P	ERFORMANC	E BY LINE									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Red Line	62%	63%	70%										65%
Blue Line	67%	68%	45%										59%
Orange Line	55%	66%	68%										63%
Green Line	77%	79%	82%										80%
Yellow Line	66%	77%	53%										65%
Silver Line	60%	74%	77%										71%
KPI: METRORA	Jan												
	Juli	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
AM Rush	65%	71 %	Mar 68%	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	68%
Mid-day	65%	71%	68%	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	68% 74%
Mid-day PM Rush	65% 67%	71% 77%	68% 78%	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	68% 74% 66%
Mid-day PM Rush Evening	65% 67% 62%	71% 77% 67%	68% 78% 67%	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	68% 74% 66% 79%
Mid-day PM Rush Evening Late Night	65% 67% 62% 79%	71% 77% 67% 80%	68% 78% 67% 78%	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	68% 74% 66% 79% 84%
Mid-day PM Rush Evening Late Night Weekend	65% 67% 62% 79% 86% 71%	71% 77% 67% 80% 85% 69%	68% 78% 67% 78% 82% 67%		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	68% 74% 66% 79% 84%
AM Rush Mid-day PM Rush Evening Late Night Weekend KPI: RAIL INFR	65% 67% 62% 79% 86% 71%	71% 77% 67% 80% 85% 69%	68% 78% 67% 78% 82% 67%		May	Jun	Jul Jul	Aug	Sep	Oct	Nov	Dec	YTD 68% 74% 66% 79% 84% 69%

KPI: GUIDEWAY	CONDITION	I [TARGET 5%	%]										
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2017	1%	1%	4%										2%

TRAIN ON-TIME	PERFORMAI	NCE (HEADV	VAY ADHERI	ENCE) [TARG	ET 91%]								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2015	87%	84%	88%	90%	87%	85%	84%	83%	79%	76%	80%	82%	87%
CY 2016	78%	82%	86%	87%	80%	80%	78%	76%	78%	80%	74%	76%	82%
CY 2017	76%	82%	80%										79%

TRAIN ON-TIME	PERFORMAI	NCE BY LINE	(HEADWAY	ADHERENC	E)								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Red Line	77%	82%	87%										82%
Blue Line	71%	75%	35%										61%
Orange Line	72%	79%	81%										77%
Green Line	84%	78%	87%										83%
Yellow Line	86%	94%	70%										86%
Silver Line	68%	79%	79%										76%

TRAIN ON-TIME	PERFORMAI	NCE BY TIME	PERIOD (H	EADWAY AD	HERENCE)								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
AM Rush	76%	78%	74%										76%
Mid-day	79%	88%	87%										85%
PM Rush	71%	76%	76%										74%
Evening	94%	94%	92%										93%

RAIL FLEET RELIA	BILITY (RAIL	. MEAN DIST	ANCE BETW	EEN DELAYS	) [TARGET 7	5,000 MILES	5]						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2015	53,784	41,558	63,588	60,242	69,260	54,779	56,446	59,196	60,872	65,900	63,564	51,599	52,056
CY 2016	39,657	47,239	59, 131	80,943	81,278	85,389	55,850	73,246	65,416	86,174	66,697	76,244	48,064
CY 2017	<i>7</i> 9,105	85,489	80,348										81,451

RAIL FLEET RELIA	BILITY (RAIL	MEAN DIST	ANCE BETWE	EN DELAYS	BY RAILCAR	SERIES)							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1000 series	82,145	54,174	98,212										74,354
2000/3000 series	75,753	83,714	77,949										78,850
4000 series	98,019	87,975	50, 197										74,654
5000 series	41,253	53,686	53,517										48,574
6000 series	89,730	98,931	76,601										87,497
7000 series	164,829	152,686	128,094										145,051

RAIL FLEET RELIA	BILITY (RAIL	. MEAN DIST	ANCE BETWE	EN FAILURE	) [TARGET 6,	500 MILES]							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2015	5,334	4,891	5,655	5,480	5,031	4,789	4,576	4,802	4,738	5,326	4,970	5,693	5,298
CY 2016	5,020	4,813	5,336	5,307	5,596	5,259	4,333	4,606	5,538	6,321	6,355	6,819	5,061
CY 2017	6,787	7,723	6,878										7,089

RAIL FLEET RELIA	BILITY (RAIL	. MEAN DIST	ANCE BETWE	EN FAILURE	BY RAILCAR	SERIES)							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1000 series	8,425	11,339	10,912										9,854
2000/3000 series	6,887	7,517	6,756										7,023
4000 series	4,507	5,414	4,429										4,751
5000 series	4,177	4,071	4,167										4, 141
6000 series	6,647	9,463	6,059										<i>7</i> , 131
7000 series	12,572	12,939	12,084										12,485

TRAINS IN SERV	ICE [TARGET	95%]											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2016									94%	96%	92%	99%	
CY 2017	94%	98%	93%										95%

RAIL CROWDING [OPTIMAL P	ASSENGERS P	ER CAR (PPC)	OF 100, WITH	MINIMUM O	F 80 AND MAXIMUM OF 120 PPC]
AM Rush Max Load Points		Nov-15	Dec-15	Nov-16	Dec-16
Gallery Place	- Red	98	83	97	66
Dupont Circle	- кеа	87	73	112	67
Pentagon		93	82	85	91
Rosslyn	Blue	85	75	79	71
L'Enfant Plaza		56	56	56	55
Court House	0	131	90	83	96
L'Enfant Plaza	- Orange	66	75	70	57
Pentagon	Yellow	72	70	73	78
Waterfront	C	104	79	97	84
Shaw-Howard	- Green	72	68	129	89
Rosslyn	- Silver	85	90	82	64
L'Enfant Plaza	Silver	63	64	61	68
PM Rush Max Load Points					
Metro Center	- Red	99	99	99	75
Farragut North	Ked	92	79	124	65
Rosslyn		100	91	86	94
Foggy Bottom-GWU	Blue	86	70	87	97
Smithsonian		49	58	44	66
Foggy Bottom-GWU	0	116	94	98	84
Smithsonian	- Orange	66	62	65	77
L'Enfant Plaza	Yellow	79	67	73	73
L'Enfant Plaza	- C	87	73	73	71
Mt. Vernon Square	- Green	67	62	93	50
Foggy Bottom-GWU	- Silver	96	82	93	70
Smithsonian	Silver	61	42	69	54

ESCALATOR SY	STEM AVAILA	BILITY [TARG	SET 93%]										
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2015	93.1%	93.9%	94.1%	93.5%	93.7%	93.3%	92.9%	93.3%	93.4%	92.7%	93.2%	93.3%	93.7%
CY 2016	93.6%	93.5%	94.3%	93.9%	93.3%	93.1%	93.0%	92.1%	92.5%	94.4%	94.0%	94.1%	93.8%
CY 2017	94.5%	94.6%	96.0%										95.0%

<b>ELEVATOR SYSTE</b>	M AVAILABI	LITY [TARGE	T 97%]										
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2015	96.8%	97.4%	97.9%	97.1%	96.5%	96.1%	96.7%	97.4%	96.4%	96.4%	96.4%	97.2%	97.4%
CY 2016	97.2%	96.7%	97.1%	97.0%	96.8%	96.6%	96.2%	96.7%	96.6%	96.6%	96.9%	96.9%	97.0%
CY 2017	96.7%	96.6%	96.7%										96.7%

CUSTOMER INJU	JRY RATE (PE	R MILLION I	PASSENGERS	) [TARGET ≤	1.75]								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2015	5.2	1.7	2.2	2.5	1.7	1.6	0.8	2.5	1.7	2.0	1.4	1.4	3.0
CY 2016	3.3	2.2	1.8	2.1	1.9	2.1	1.8	1.8	2.0	1.7	1.7	2.6	2.3
CY 2017	2.2	2.6	2.1										2.3

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

FIRE AND SMOK	E INCIDENT	S											
CY2017	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Debris	4	3	0										7
Cable	0	0	1										1
Arcing Insulator	4	3	5										12

RED SIGNAL OV	ERRUNS												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2017	2	1	1										

PEDESTRIAN / C	CYCLIST STRII	<b>(ES</b>											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2017	4	3	0										7

<b>BUS COLLISION</b>	RATE [PER N	ILLION VEH	ICLE MILES]										
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Metrobus	53.7	52.2	56.4										54.1

PART I CRIMES	TARGET ≤ 1,7	50 PART I CI	RIMES]										
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2015	109	84	103	117	167	151	144	153	172	199	135	119	296
CY 2016	129	109	122	114	161	137	160	163	140	126	107	111	360
CY2017	110	87	92										289

PART I CRIMES BY	TYPE [TAR	GET <b>≤</b> 1,750	PART I CRIMI	[S]									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Crimes Against Prop	erty												
Larceny (Snatch/ Pickpocket)	21	23	24										68
Larceny (Other)	52	38	32										122
Burglary	0	0	0										0
Motor Vehicle Theft	2	0	3										5
Attempted M V Theft	1	1	0										2
Arson	0	0	0										0
Crimes Against Perso	ons												
Aggravated Assault	5	7	10										22
Rape	0	0	0										0
Robbery	29	18	23										70
2017 Part1 Crimes	110	87	92										289
2017 Homicides	0	0	0										0

<sup>\*</sup> 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 INJU	RY RATE (PEI	R 200,000 H	OURS) [TARC	SET <b>≤</b> 5.1]									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
CY 2015	8.7	6.4	6.0	5.6	4.9	4.9	5.1	6.1	3.7	4.9	4.3	3.7	7.0
CY 2016	6.2	5.4	4.4	5.7	5.1	4.9	6.2	5.3	6.1	5.7	4.3	6.0	5.3
CY 2017	4.5	3.5	6.6										4.9

KP	I: RIDERSH	HIP BY MODE	E [BUDGET FO	ORECAST 34	.5 MILLION	FY2017]								
	FY2017	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	YTD
Rail	Forecast	18,812,600	17,524,000	16,770,000	17,521,000	15,631,000	14,866,000	15,491,000	14,815,000	17,603,400	18,657,000	17,632,000	18, 177,000	149,034,000
Re	Actual	15,098,254	14,988,724	14,829,231	15,013,972	13,283,576	12,860,998	14,634,341	13,162,326	15,764,574				129,635,996
SN	Forecast	11,524,000	11,731,000	11,624,000	11,844,000	10,844,000	10,392,000	10,591,000	10,338,000	11,592,000	11,676,000	11,894,000	11,548,000	100,480,000
B	Actual	10,255,630	10,992,048	10,701,979	10,704,129	10,100,724	9,378,558	9,406,439	9,391,432	10,275,069				91,206,008
ess	Forecast	202,000	209,000	202,000	212,000	197,000	197,000	190,000	188,000	205,000	209,000	207,000	202,000	1,802,000
Acc	Actual	189,991	210,705	199,521	201, 124	193,890	192,224	185,852	186, 181	201, 179				1,760,667
Total	Forecast	30,538,600	29,464,000	28,596,000	29,577,000	26,672,000	25,455,000	26,272,000	25,341,000	29,400,400	30,542,000	29,733,000	29,927,000	251,316,000
Tot	Actual	25,543,875	26, 191, 477	25,730,731	25,919,225	23,567,919	22,410,489	24,096,904	22,739,939	26,240,822				222,441,381

KPI: NET OPERAT	ING POSITI	ON [TARGE]	「0−2 % SURI	PLUS]									
FY2017	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
Expense Variance (\$)	(\$16)	(\$21)	(\$19)	(\$27)	(\$26)	(\$59)	(\$64)	(\$66)	(\$76)				(\$76)
Revenue Variance (\$)	(\$17)	(\$27)	(\$37)	(\$46)	(\$56)	(\$65)	(\$70)	(\$77)	(\$87)				(\$87)
Net Subsidy Variance (\$)	\$1	\$6	\$18	\$19	\$30	\$6	\$6	\$ 11	\$11				\$11
Expense Variance (%)	-11%	-7%	-4%	-5%	-4%	-7%	-6%	-6%	-6%				-6%
Revenue Variance (%)	-21%	- 17%	-16%	-15%	-15%	-14%	-14%	-13%	-13%				-13%
Net Subsidy Variance (%)	1%	5%	8%	7%	9%	1%	1%	2%	2%				2%
Surplus (+) / Deficit (-)	0%	-2%	-4%	-3%	-4%	-1%	-1%	-1%	-1%				-1%

KPI: CAPITAL FU	NDS INVEST	ED [TARGET	95% OF CAP	ITAL BUDGE	T]								
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYTD
FY 2015	1%	3%	7%	11%	16%	24%	25%	29%	40%	45%	48%	65%	40%
FY 2016	1%	6%	16%	17%	25%	34%	38%	44%	55%	58%	66%	85%	55%
FY 2017	6%	17%	31%	41%	51%	63%	73%	81%	92%				92%

VACANCY RATE	[TARGET 5%]	]											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
2015	7%	8%	8%	8%	8%	7%	7%	6%	7%	7%	7%	7%	8%
2016	7%	7%	7%	7%	7%	7%	5%	5%	5%	5%	5%	5%	7%
2017	5%	5%	5%										5%

OPERATIONS CR	ITICAL VACA	NCY RATE [	TARGET 9%]										
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
2015											9%	11%	
2016	11%	11%	12%	12%	10%	11%	10%	10%	10%	8%	8%	8%	12%
2017	7%	7%	7%										7%

WATER USAGE (GALLONS PER VEHICLE MILE) [TARGET 0.85]													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
2015	0.65	0.62	0.45	0.76	0.86	1.07	1.21	1.30	1.47	0.98	0.57	0.53	0.57
2016	0.71	0.71	0.65	0.69	0.64	0.94	1.37	1.29	1.56	1.05	0.61	0.50	0.69
2017	0.68	0.51	0.63										0.61

ENERGY USAGE (BTU/VEHICLE MILE) [TARGET 39,339]													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
2015	48,010	46,105	40, 195	38,538	38,235	36,579	40,193	41,349	39,798	39,262	37,639	42,240	44,630
2016	47,371	42,602	37,952	38,660	37,365	39,565	42,404	39,734	44,477	37,665	38,352	40, 112	42,297
2017	44,830	43,998	39,149										42,094

GREENHOUSE G	GREENHOUSE GAS EMISSIONS PER VEHICLE MILE [TARGET 4.00]												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
2015	4.97	4.65	4.05	3.97	3.90	3.78	4.15	4.18	4.18	4.06	3.79	4.31	4.16
2016	4.47	4.14	3.56	3.75	3.57	3.79	4.11	3.80	4.34	3.63	3.66	3.81	3.87
2017	4.54	4.34	3.95										4.27

DBE AWARDS/COMMITMENTS FOR FFY16, TOTAL [FFY16 TARGET = 25%]					
Reporting Period	FFY16 Period 1	FFY 16 Period 2	Total		
Total Dollars of Prime Contracts Awarded	\$64,975,570	\$121,763,742	\$186,739,312		
Total Dollars to DBEs	\$10,013,955	\$10,287,246	\$20,301,201		
			Percentage		
FFY16	10.9%				

Vital Signs Report reflects the results of the Semi-Annual Report of DBE Awards/Commitments that WMATA submits to the FTA twice a year. Shown in this report is WMATA's annual DBE performance result for FFY16. The Period 1, FFY 2017 Semi-Annual Report of DBE Awards/Commitments, which will cover a performance period of 10/01/2016 -3/30/2017, will be submitted to the FTA on 6/1/2017. Therefore, it will not be included until the next Vital Signs Report.

## **Key Performance Indicator (KPI) Definitions**

KPI	How is it measured?	What does this mean and why is it key to our strategy?				
QUALITY SERVICE	CE					
Bus On-Time Performance	Adherence to Schedule  Number of time points that arrived on time by route based on a window of 2 minutes early and 7 minutes late ÷ Total number of time points scheduled (by route)	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.				
Bus Fleet Reliability	Mean Distance Between Failures (MDBF)  The number of total miles traveled before a mechanical breakdown requiring the bus to be removed from service or deviate from the schedule	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.				
Bus Crowding	Ratio of bus seats filled  Top load recorded on a route during a time period ÷ actual bus seat capacity	Bus crowding is a factor of bus customer satisfaction. This measure can inform decision making regarding bus service plans.				
Rail Customer On-Time Performance	Percentage of customer journeys completed on time  Number of journeys completed on time ÷  Total number of journeys	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.				
		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.				
Rail Fleet Reliability	Mean Distance Between Delays (MDBD)  Total railcar revenue miles ÷  Number of failures during revenue service resulting in	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.				
	delays of four or more minutes  Mean Distance Between Failure (MDBF)  Total railcar revenue miles ÷  Number of failures occurring during revenue service					

KPI	How is it measured?	What does this mean and why is it key to our strategy?
Rail Crowding	Number of rail passengers per car  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  Trained Metro observers are strategically placed around the system during its busiest times to monitor and report on crowding.  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.	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.  Additional Board standards have been set for:  Hours of service—the Metrorail system is open to service customers  Headway—scheduled time interval between trains during normal weekday service
Train Availability	Percentage of required trains that are in service at 8:15 AM and 5:00PM  Number of Trains in service ÷  Total required trains	Train Availability 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.
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.
MetroAccess On-Time Performance	Adherence to Schedule  Number of vehicle arrivals at the pick-up location within the 30 minute on-time widow ÷ Total trips delivered	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.

KPI	How is it measured?	What does this mean and why is it key to our strategy?
Elevator and Escalator Availability	In-service percentage Hours in service ÷ Operating hours	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.
	Hours in service = Operating hours –  Hours out of service	Availability is the percentage of time that Metrorail escalators or elevators in stations and parking garages are in service during operating hours.
	Operating hours = Operating hours per unit × number of units	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.
Customer Satisfaction	Survey respondent rating  Number of survey respondents with high satisfaction ÷ Total number of survey respondents	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.  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).

SAFETY AND SEC	CURITY					
Customer Injury	Customer injury rate:	The customer injury rate is based on National Transit Database (NTD) Reporting criteria. It includes injury				
Rate	Number of injuries ÷ (Number of passengers ÷ 1,000,000)	to any customer caused by some aspect of Metro's operation that requires immediate medical attention away from the scene of the injury.				
		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.				
Crime	Reported Part I crimes	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.				
		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.				
Employee Injury	Employee injury rate:	An employee injury is recorded when the injury is (a) work related; and, (b) one or more of the following				
Rate	Number of injuries ÷ (Total work hours ÷ 200,000)	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.				
		OSHA recordable injuries are a key indicator of how safe employees are in the workplace.				

PEOPLE AND AS	SETS					
Capital Funds Invested	Percentage of capital budget spend	This indicator tracks spending progress of the Metro Capital Improvement Program.				
invested	Cumulative monthly capital expenditures ÷ fiscal year capital budget, including actual rollover from previous fiscal year					
Net Operating Position	Percentage surplus or deficit comparing actual revenues and subsidy to actual expenses	This indicator tracks Metro's progress managing its operating revenues and expenses.				
	(actual revenues + subsidy –actual expenses) ÷ actual expenses					
Vacancy Rate	Percentage of budgeted positions that are vacant	This measure indicates how well Metro is managing its human capital strategy to recruit new employees in				
	(Number of budgeted positions – number of employees in budgeted positions) ÷ number of budgeted positions	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.				
Disadvantage Business	DBE Participation Rate (only considers federally-funded contracts):	FTA DOT's DBE Program seeks to ensure nondiscrimination in the award and administration of DOT-assisted contracts.				
Enterprise (DBE) Contracts	Total contract dollars committed to DBEs ÷ Total contract dollars awarded to all Vendors (DBEs and Non-DBEs)	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.				
Water Usage	Rate of gallons of water consumed per vehicle mile	This measure reflects the level of water consumption Metro uses to run its operations. Water consumption				
	Total gallons of water consumed ÷ Total vehicle miles	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	Rate of British Thermal Units (BTUs) consumed per vehicle mile	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				
	MBTU(Gasoline + Natural Gas + Compressed Natural Gas + Traction Electricity + Facility Electricity) × 1000 ÷ Total vehicles miles	provide stewardship of the environmental systems that support the region.				
Greenhouse	Rate of metric tons of CO <sub>2</sub> emitted per vehicle mile	Greenhouse Gas emissions reflect how Metro sources its energy used to power its operations, as well as				
Gas Emissions	(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	the amount of energy it uses. Reducing Greenhouse Gas emissions is a key area of Metro's Sustainabil Initiative, which brings focus to Metro's efforts to provide stewardship of the environmental systems tha support the region.				