

Quarterly Service Performance Review 3rd Quarter, FY23 (January- March 2023)

Engineering & Operations Committee June 22, 2023





# KPI Grouping





### Service Performance

### Service Delivery

### Capacity

- Weekday Average Ridership
- · Dispatches Operated
- Passenger Loading

### **Punctuality**

- On-time Customer
  - Daily / Peak
- On-time Train
  - Daily / Peak
  - Timed Train Meets K-Line

### Railway Asset Availability

### Revenue Fleet

- Revenue Fleet Fleet Reliability
  - 4 AM Car Availability
  - Vehicle MTBSD (Hours)

### Wayside

- Wayside Train Control Systems
  - Wayside Train Control System
  - Control System
- Wayside Railway Systems
  - Track
  - Traction Power

### **Operations**

Transportation Staffing

### **Stations**

- Availability Elevators
- Availability Escalators
- Availability Fare Collection

### **Customer Experience**

### **Customer Service**

- Customer Service
  - Overall Customer Satisfaction
  - Station Agent Customer Service
  - Complaints

### Environment

- Environment Stations
  - Outside
  - Inside
- Environment Trains
  - Cleanliness
  - Temperature
- Environment Code of Conduct
  - Gender Based Harassment
  - Fare Evasion

### Safety and Security

### Safety

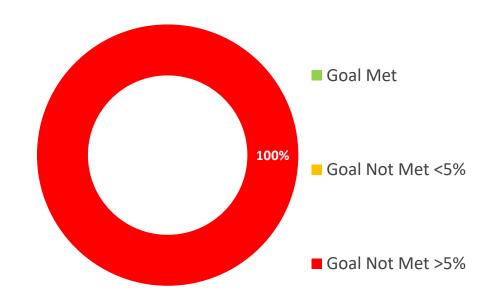
- Safety Passenger
  - Station Incidents
  - Vehicle Incidents
- Safety Employee
  - Lost Time Injuries
  - OSHA Recordable Injuries
- Safety Violations
  - Unscheduled Door Openings
  - OSHA Recordable Injuries

### Security

- Police Coverage
  - BPD Presence
  - BPD Response Time
- Crime Against Person
- Crime Burglary
  - Bike Thefts
  - Auto Burglaries
  - Auto Thefts
- · Progressive Policing

# Summary – Service Delivery



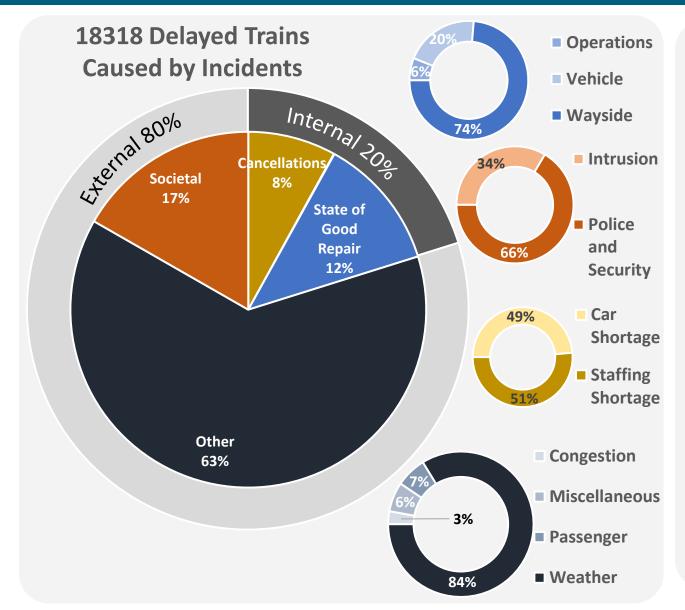


Metric	FY23 Q3	Goal	Change from FY23 Q2	
All-Day				
Weekday - Average Ridership	144295	184718	(1.30%)	
Trains On-Time - Daily	56.2%	91.0%	(20.81%)	
Customers On-Time - Daily	81.2%	94.0%	(2.73%)	
Peak				
Trains On-Time - Peak	52.7%		(23.74%)	
Customers On-Time - Peak	74.2%		(12.23%)	

<sup>▼</sup> Gray arrows represent change from the previous quarter for metrics which do not have an established goal

# Service Delivery – Delay Incident Detail



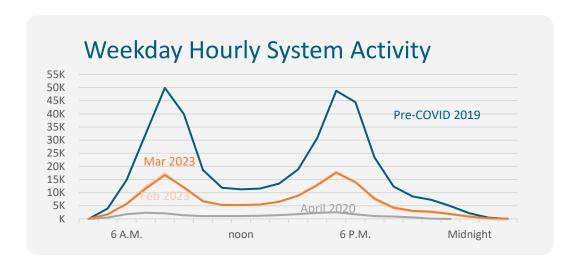


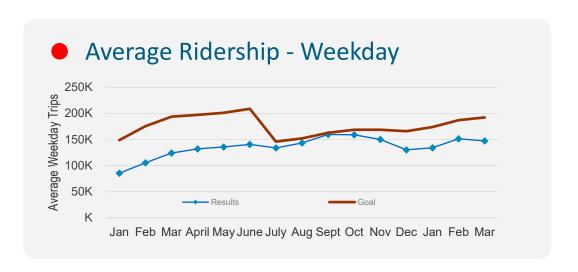


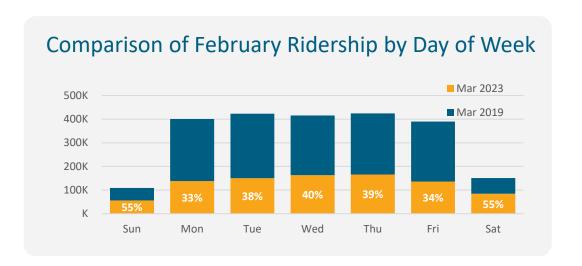
# Capacity – Ridership



Ridership below budgeted goal



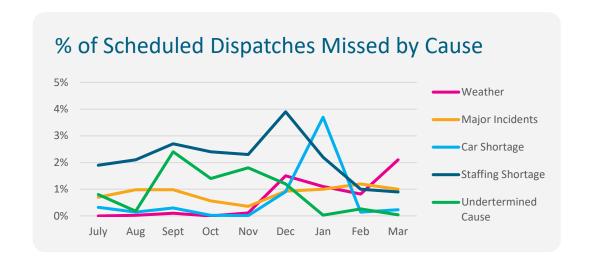




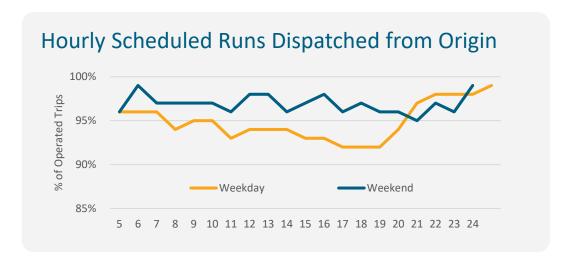
# Capacity – Dispatches Operated



- Missed Dispatches are scheduled trains that did not run OR partial runs that were not able to dispatch from origin
- Majority of missed dispatches are during weekday PM peak
- Weather was the primary cause, and is much lower in Q4
- Missed dispatches due to staffing shortage decreased dramatically in Q3

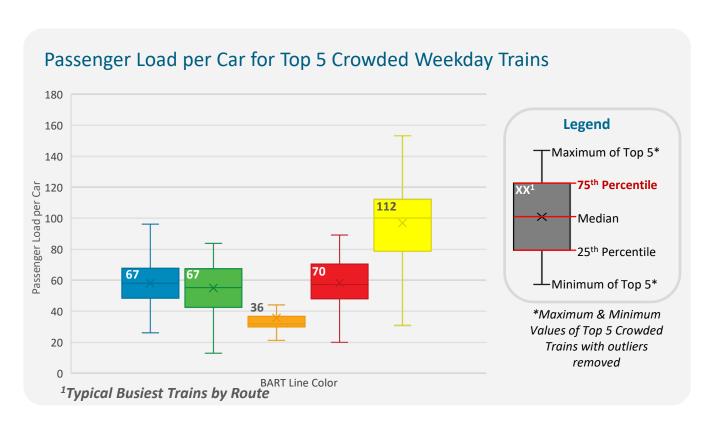


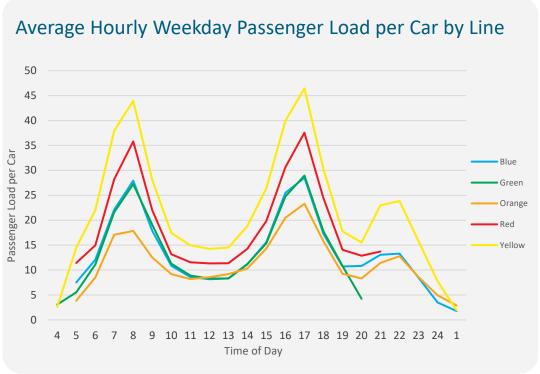




# Capacity – Passenger Loading

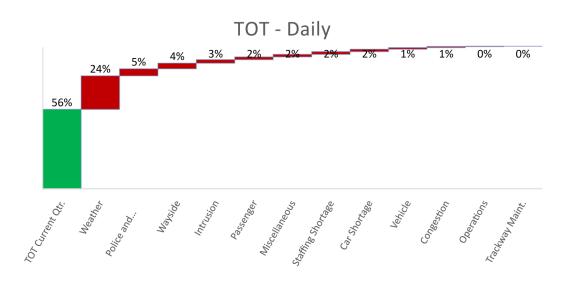




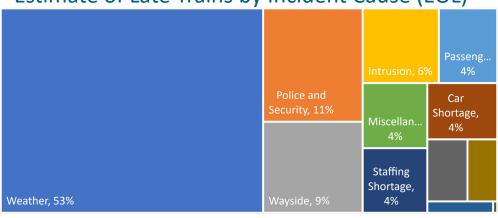


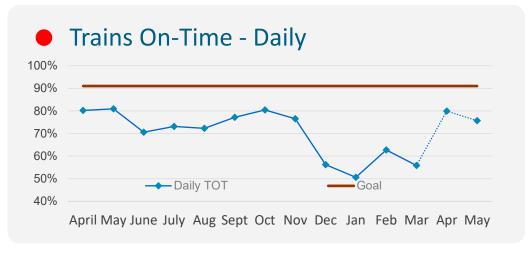
# Punctuality – Trains On-Time

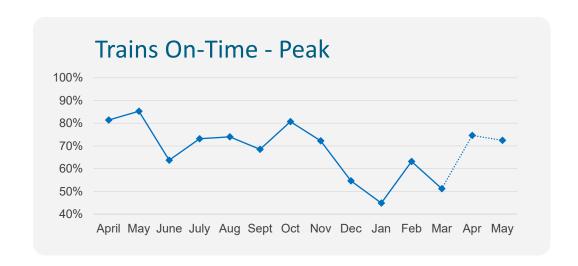












# Punctuality – Customer On-Time



 Customer on-time performance was impacted by speed reductions due to weather

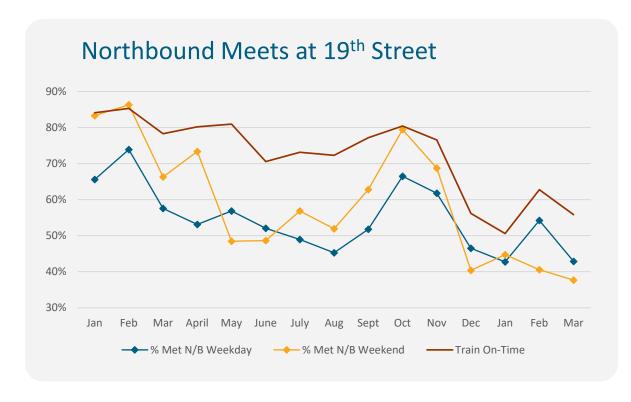


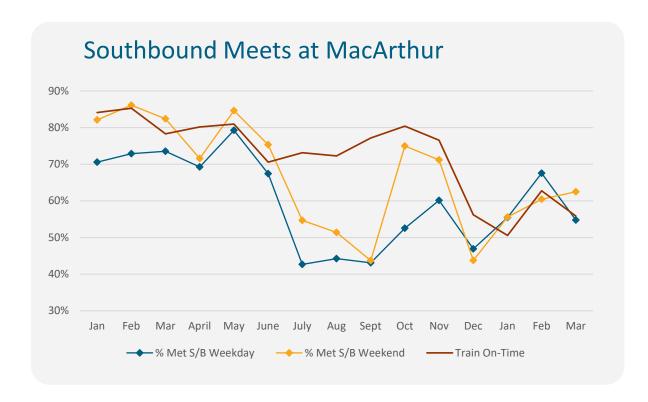


# Punctuality – Timed Train Meets



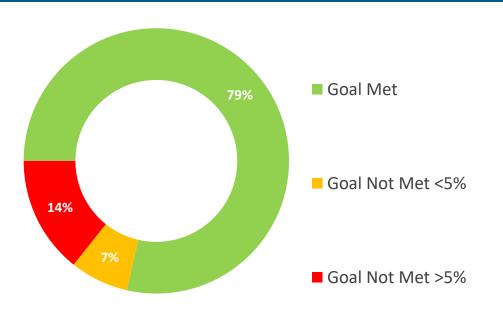
- A meet is considered successful when there is at least 20 seconds of overlap time for both trains at the timed transfer point
- Timed Train Meets on the K-Line <u>between the Yellow and Orange lines</u> occur as follows
  - Northbound trains meet at <u>19<sup>th</sup> Street</u>
  - Southbound trains meet at MacArthur





# Summary – Railway Asset Availability

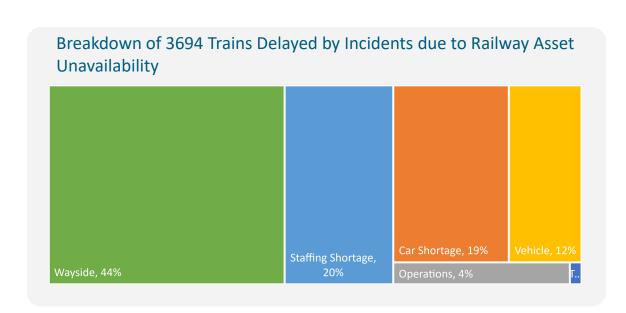


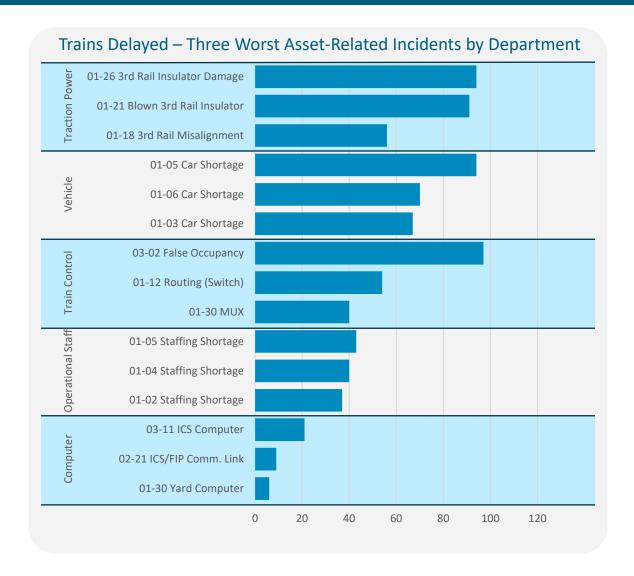


Metric	FY23 Q3	Goal	Change from FY23 Q2	
Station Equipment				
Elevators in Service - Station	98.3%	98%	(0.85%)	
Elevators in Service - Garage	98.9%	97%	(0.98%)	
Escalators in Service - Street	91.8%	93%	(4.92%)	
Escalators in Service - Platform	96.5%	96%	(1.88%)	
Automatic Fare Collection - Gates	98.8%	99%	0.02%	
Automatic Fare Collection - Vendors	98.7%	95%	0.51%	
Revenue Vehicle				
Vehicle MTBSD - (Hours)	8184	6500	40.01%	
4 AM - Car Availability	651	636	(4.22%)	
DMU - MDBF (Miles)	93392	20000	490.38%	
Wayside Equipment				
Track	0.01	0.30	88.88%	
Transportation	1.82	0.50	49.90%	
Traction Power	0.83	1.00	27.40%	
Wayside Train Control System	1.70	1.30	5.55%	
Computer Control System	0.08	0.30	82.51%	

# Railway Asset Availability – Detail





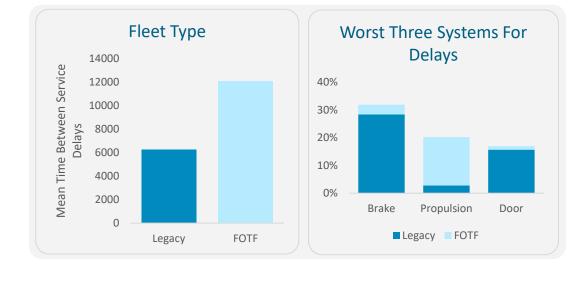


# Revenue Fleet – Reliability





- Fleet of The Future continues to outperform the legacy fleet
- January car availability impacted by wet weather and wheel flats





386

LEGACY

FOTF

ar count as of 03/31/2023





# Wayside Equipment – Train Control Systems





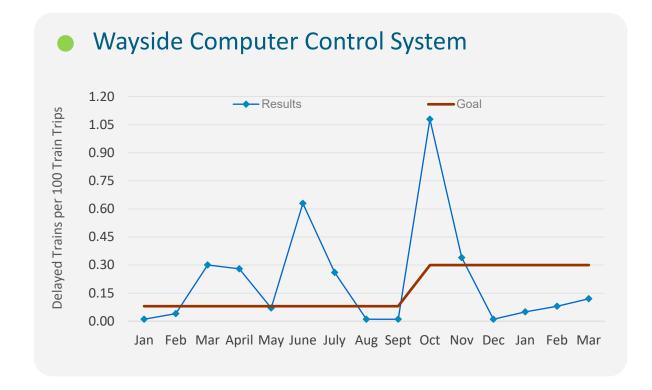
### Wayside Train Control System

- Two asset failures in January delayed a total of 94 trains
- An interlocking failure in March delayed 97 trains

# Wayside Train Control System 2.50 2.00 1.50 1.00 Results Goal O.00 Jan Feb Mar April May June July Aug Sept Oct Nov Dec Jan Feb Mar

### Wayside Computer Control System

Met goal



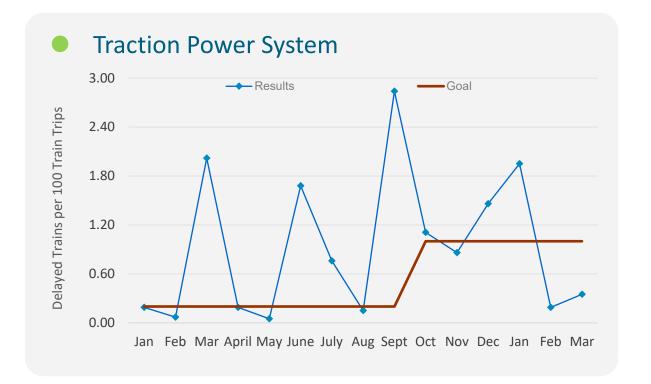
# Wayside Equipment – Railway





### **Traction Power System**

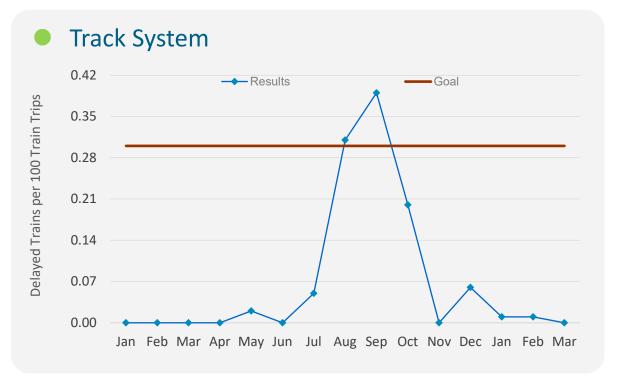
• Three incidents related to 3<sup>rd</sup> Rail equipment in January



### Track System

Met goal

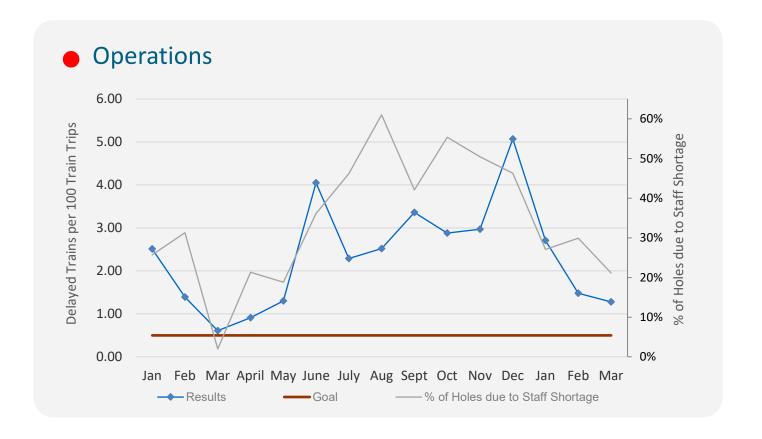




# Operations - Transportation



- Train delays due to staff shortages have declined significantly as recruitment of Train Operators continues
- Recruiting of Train Operators, Rail Controllers, and Foreworkers remains the highest priority



# Outlook – Transportation Staffing



- Train Operators
  - On pace to reach <u>full-staffing in late 2023</u>
  - Three classes underway on-going into Fall
- Station Agents
  - On pace to reach <u>full-staffing this Summer</u>
  - Continued but slowing pace of recruiting
- Rail Controllers
  - Five Rail Controllers in training
- Foreworkers
  - Hiring is a priority for 2023/2024
  - Twenty Foreworkers currently in training





# Station Equipment – Elevator Availability





### **Station Elevator**

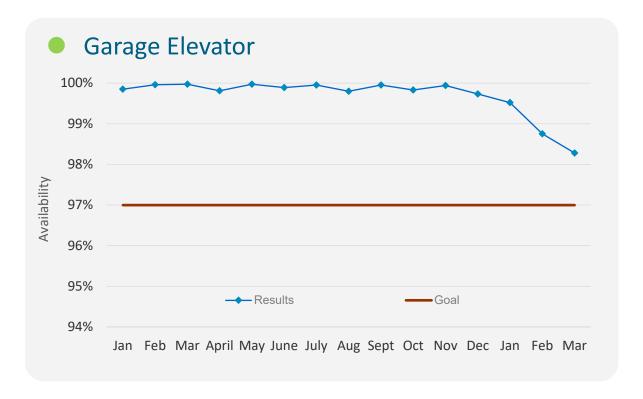
Goal met

### **Station Elevator** 100% 99% 98% Availability 96% 95% Goal 94% Jan Feb Mar April May June July Aug Sept Oct Nov Dec Jan Feb Mar

### **Garage Elevator**

Goal met





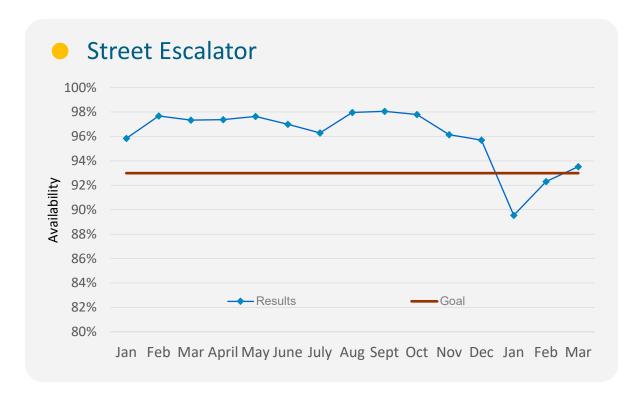
# Station Equipment – Escalator Availability





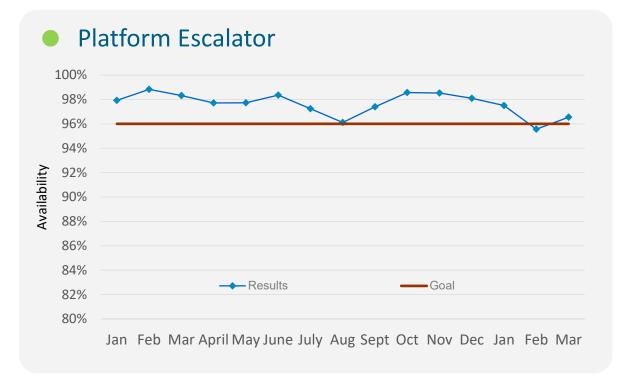
### **Street Escalator**

- Heavy rains impacted several street escalators
- Warm Springs and 16<sup>th</sup> St Station escalators were out of service for maintenance and repair



### Platform Escalator

Goal met



# Station Equipment – Automated Fare Collection **b**





### **Gate Availability**

- The availability goal changed from 99% to 98% due to an increase in maintenance work on aging gates
- Repaired damaged electrical conduits which caused delays in Q2

# **Gate Availability** 100% 98% Availability 92% Results 90% Jan Feb Mar April May June July Aug Sept Oct Nov Dec Jan Feb Mar

### **Vendor Availability**

Goal met





# Summary – Customer Experience



Metric	FY23 Q3	Goal	Change from FY23 Q2	
Customer Experience				
Overall Customer Satisfaction	70.0%		-	
Station Agent Customer Service	3.9		-	
Complaints per 100,000 Passenger Trips	23.1		1.12%	
Train Environment				
Train Temperature	4.1		-	
Train Interior Cleanliness	3.7		-	
Station Environment				
<b>Environment Outside Stations</b>	3.5		-	
<b>Environment Inside Stations</b>	3.5		-	
Code of Conduct				
Gender Based Harassment	10%		11.11%	
Fare Evasion	23.1%		6.33%	

<sup>▲</sup> Gray arrows represent change from the previous quarter for metrics which do not have an established goal

# Passenger Experience Survey (Scale Change)





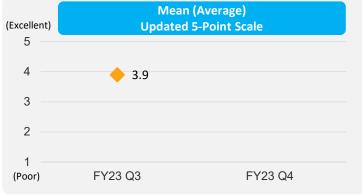
"Please rate the train car in which you are riding right now."



- Switching from a 4- to a 5-point scale, adding a clear neutral choice for riders
- Anchored scale with balanced options for positive and negative ratings without assigning words that may or may not reflect how a rider feels
- Reporting mean score instead of top-2-box percentage, as this metric better reflects the results of a 5-point scale with a neutral midpoint.

### **Customer Service Measure**





Results from prior to FY23 Q3 with 4-point scale

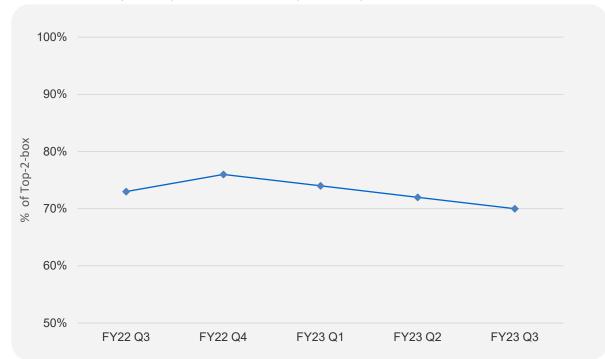


# Customer Service - Experience



### **Overall Customer Satisfaction**

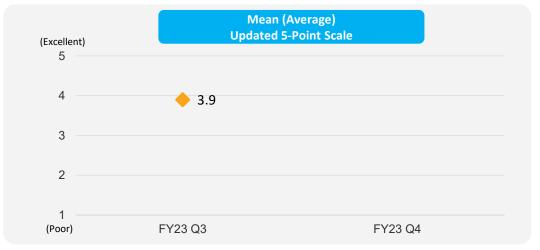
Overall, how satisfied are you with the services provided by BART?

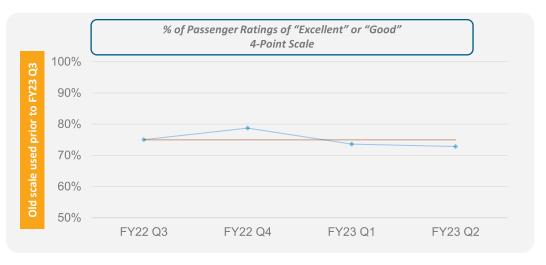


- Overall customer service continue to reported as top-2-box % since it was always 5-point scale
- In FY24, Customer Satisfaction will be expanded to show the key part of the rider experience: train, station, and parking

### **Station Agent Customer Service**

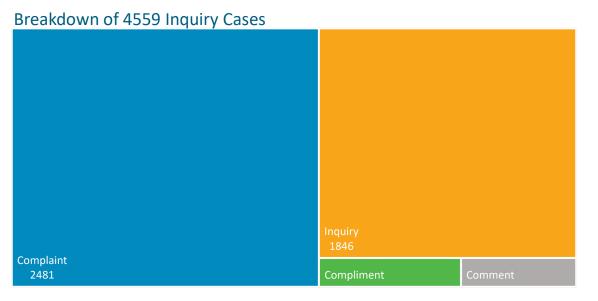
Customer service from Station Agent (if used today)

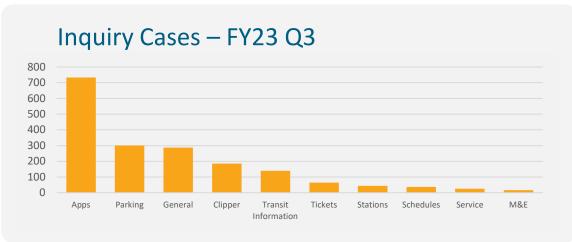


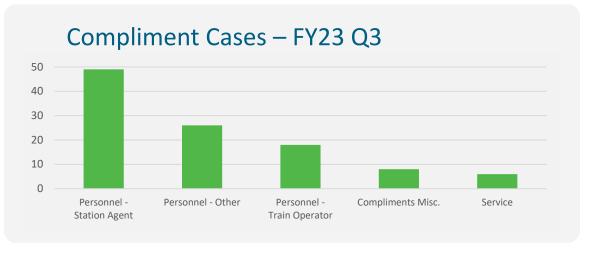


# Customer Service – Cases by Type



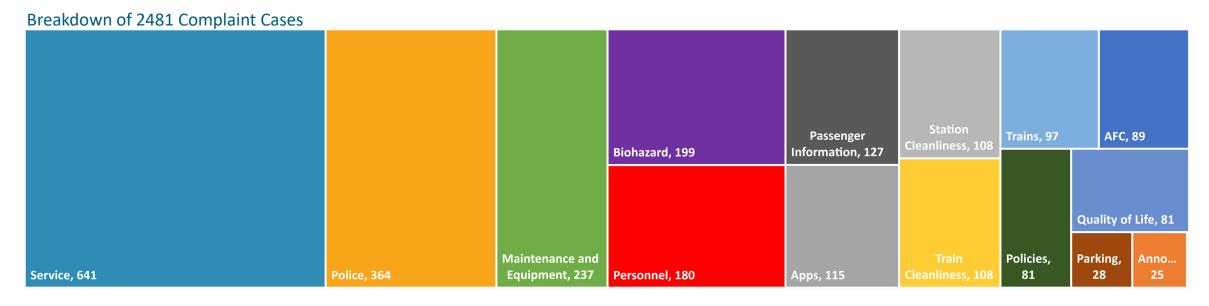






# Customer Service – Complaint Cases







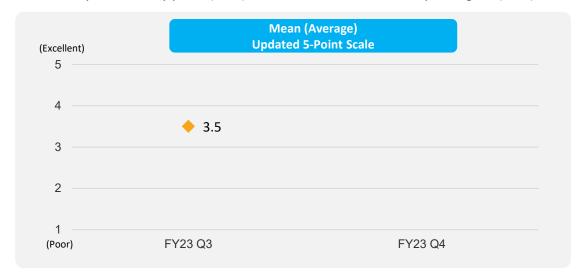


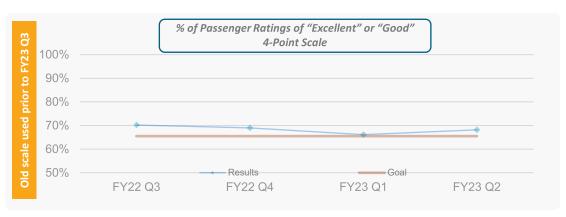
# Environment – Stations



### **Environment Outside Station**

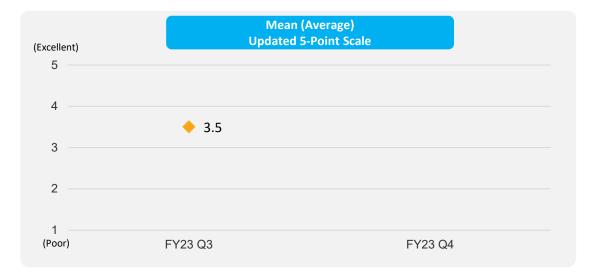
• This is a composite score which incorporates the appearance of BART landscaping, walkways, and entry plaza (67%), and the cleanliness of the parking lot (33%).

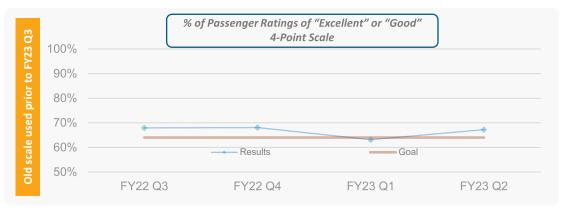




### **Environment Inside Station**

• This is a composite score which incorporates the appearance of the platform (40%), concourse (25%), escalator (10%), stairwells (7.5%), elevator (10%), and restroom (7.5%).



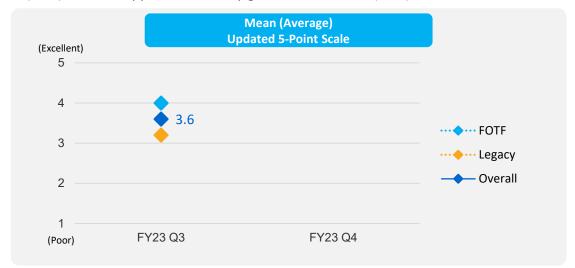


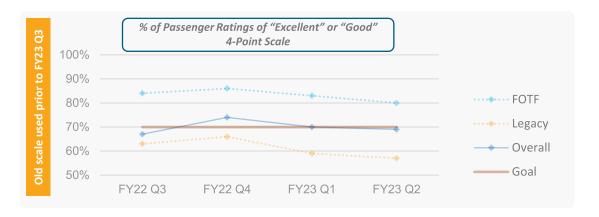
## Environment – Trains



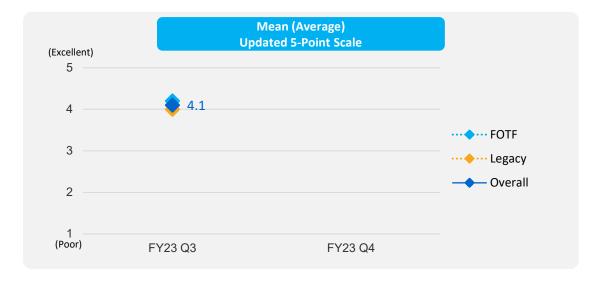
### Customer Rating – Interior Cleanliness

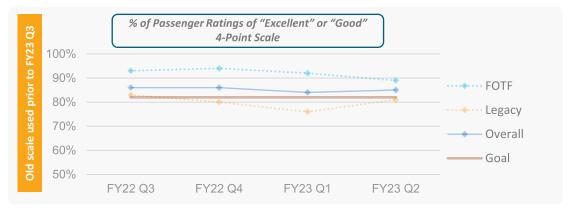
• This is a composite score which incorporates the appearance of the train interior (60%), and the appearance of any graffiti on the train (40%).





### **Customer Rating - Temperature**



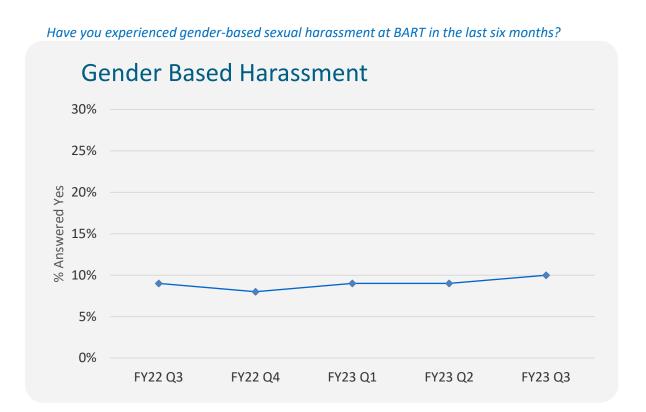


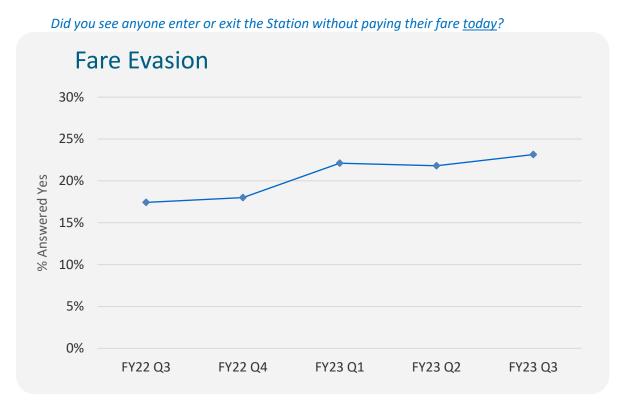
# Environment – Code of Conduct



Gender Based Harassment

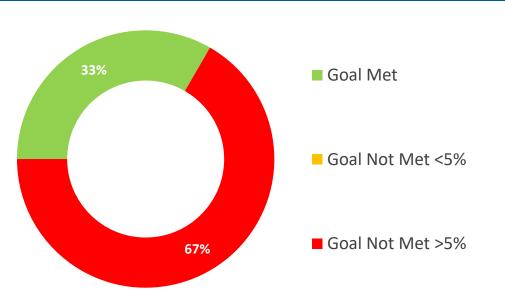
Fare Evasion





# Summary – Safety and Security





Metric	FY23 Q3	Goal	Change from FY23 Q2	
Safety				
Vehicle Incidents/Million Patrons	0.65	0.6	27.77%	
Unscheduled Door Openings/Million Car Miles	0.39	0.2	(116.66%)	
Rule Violations Summary/Million Car Miles	0.00	0.25	100%	
Station Incidents/Million Patrons	1.48	2	(2.77%)	
OSHA-Recordable Injuries/Illnesses/Per OSHA	13.65	12	(19.10%)	
Lost Time Injuries/Illnesses/Per OSHA	7.92	6.5	(16.98%)	•
Security				
Bike Thefts	14	50	50.00%	
Auto Thefts/1,000 Parking Spaces	2.39	2.0	(21.03%)	
Auto Burglaries/1,000 Parking Spaces	3.28	3.5	(57.98%)	
BART Police Presence	9.6%	12%	7.44%	
Crimes Against Persons/Million Riders	7.96	2	16.37%	

# Safety – Passenger



### **Station Incidents**

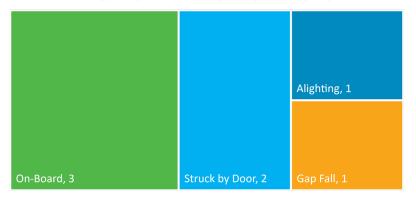
Breakdown of 16 Station Incidents





### **Vehicle Incidents**

Breakdown of 7 Vehicle Incidents



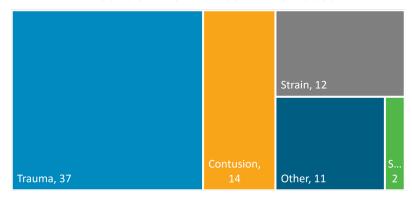


# Safety – Employee



### Lost Time due to Injuries

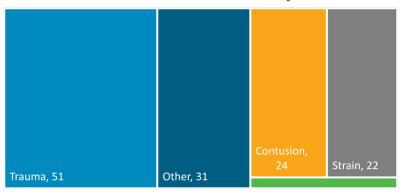
Breakdown of 76 Lost Time Cases





### **OSHA** Recordable Injuries

Breakdown of Recordable Injuries



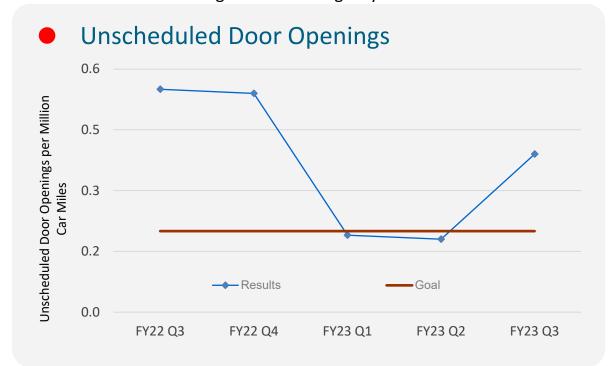


# Safety – Procedure Violations



### **Unscheduled Door Openings**

- February 2023 3 Unscheduled Openings
  - 1 due to Train Operator Error
  - 2 due to Passenger use of Emergency Door Release
- March 2023 5 Unscheduled Openings
  - All due to Passenger use of Emergency Door Release



### **Rule Violations**

No rule violations in FY23 Q3



# Security – Police Coverage



### Police Presence

 Continued uniformed visibility, daytime and nighttime staffing at Civic Center

# BART Police Presence Did you see BART Police in the station today? Did you see BART Police outside the station today? Did you see BART Police on this train? 15% 12% 9% 6% Results Goal

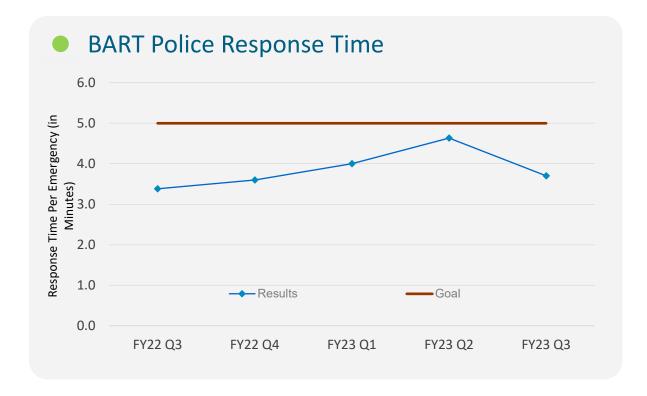
FY23 Q1

FY23 Q2

FY23 Q3

### Police Response Time

Goal met



FY22 Q4

FY22 Q3

0%

# Crime – Theft and Burglary



### Bike Theft

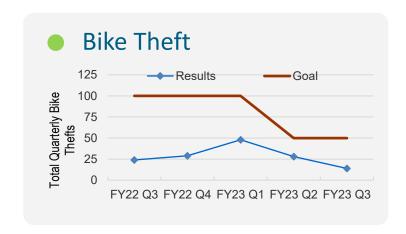
- Goal changed to less than 50 bike thefts in Q2 of FY23
- Goal met

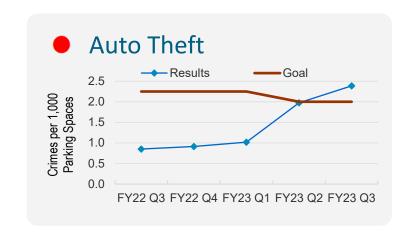
### Auto Theft

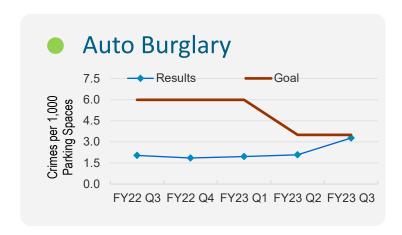
- Goal changed to two auto thefts per 1,000 parking spaces in Q2 of FY23
- Goal not met

### **Auto Burglary**

- Goal changed to 3.5 crimes per 1,000 parking spaces in Q2 of FY23
- Goal met







# Crime – Against Persons





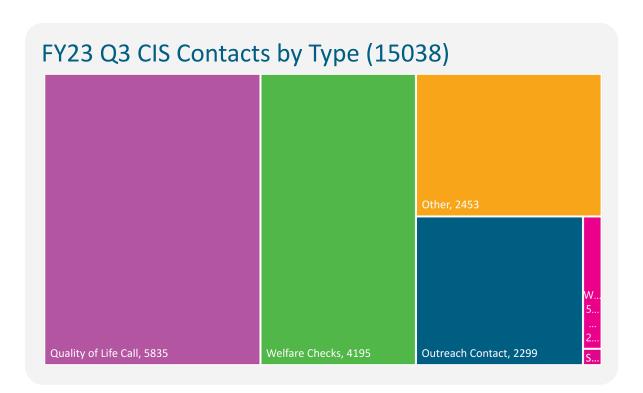


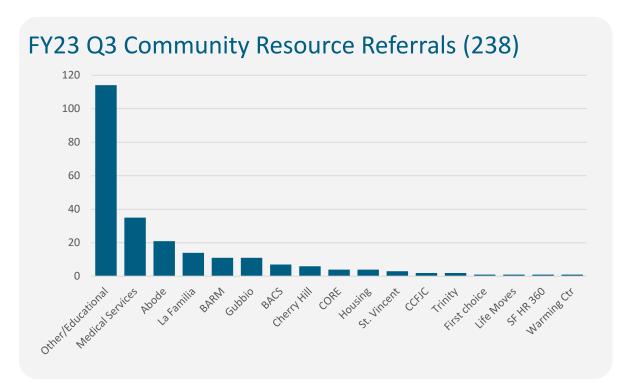
# Progressive Policing – Contacts & Referrals





 Progressive Policing Contacts are recorded by Crisis Intervention Specialist (CIS) Staff based on their daily interactions





# Bitfocus Application for Crisis Intervention Specialists

- Software installed; configuration underway
- Go-live scheduled for June 28<sup>th</sup>
- New Progressive Policing data for Q1 FY2024





# Questions?



