

Quarterly Service Performance Review 4th Quarter, FY23 (April- June 2023)

Engineering & Operations Committee August 24, 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

#### Wayside

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

#### **Revenue Fleet**

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

#### **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

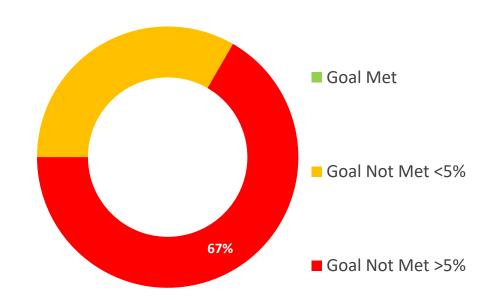
- Safety Passenger
  - · Station Incidents
  - Vehicle Incidents
- Safety Employee
  - Lost Time Injuries
  - OSHA Recordable Injuries
- Safety Violations
  - Unscheduled Door Openings
  - OSHA Recordable Injuries

#### Security

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

# Summary – Service Delivery





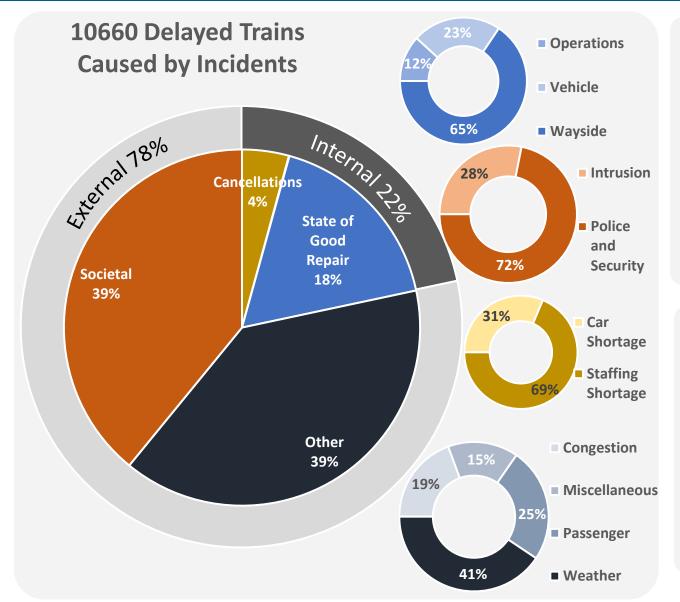
Metric	FY23 Q4	Goal	Change from FY23 Q3	
All-Day				
Weekday - Average Ridership	154,467	204,980	7.04%	
Trains On-Time - Daily	77.0%	91.0%	37.00%	
Customers On-Time - Daily	91.0%	94.0%	12.11%	
Peak				
Trains On-Time - Peak	77.2%		46.48%	
Customers On-Time - Peak	91.1%		22.69%	

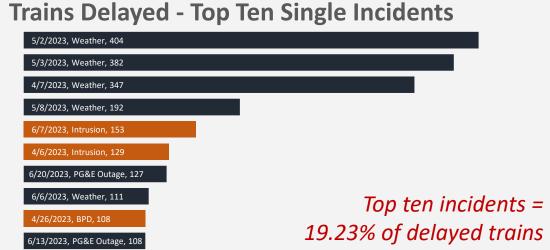
<sup>▼</sup> Gray arrows represent change from the previous quarter for metrics which do not have an established goal

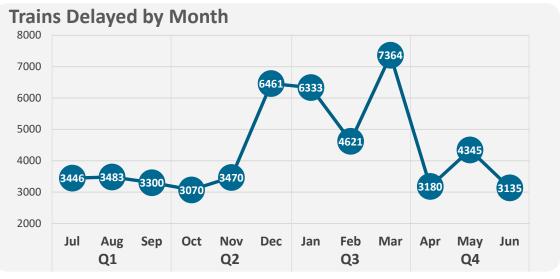
## Service Delivery – Delay Incident Detail







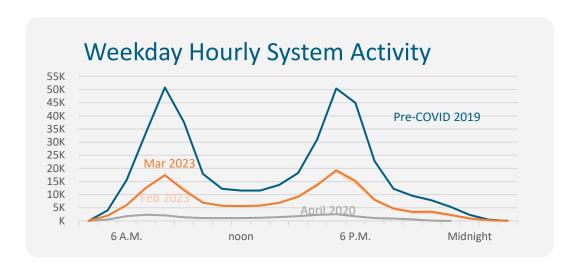


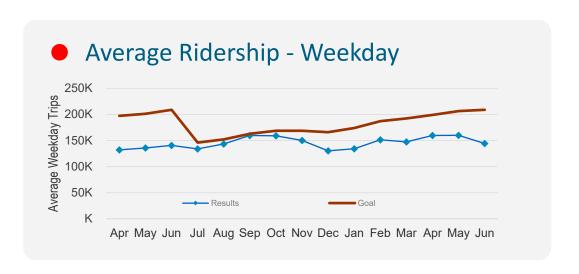


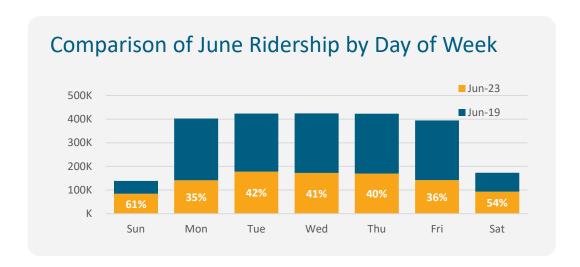
# Capacity – Ridership



Ridership below budgeted goal



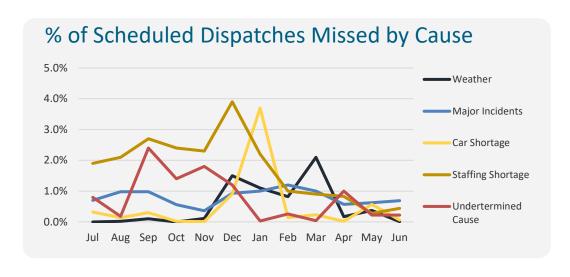




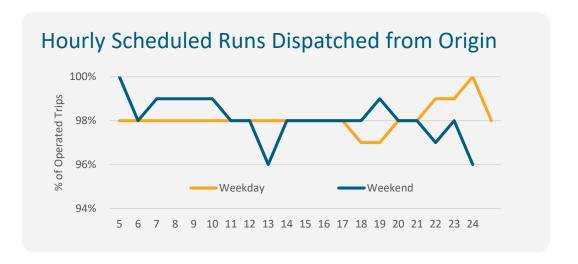
### Capacity – Dispatches Operated



- Missed Dispatches are scheduled trains that did not run OR partial runs that were not able to dispatch from origin
- Missed dispatches due to staffing shortage continue to decrease

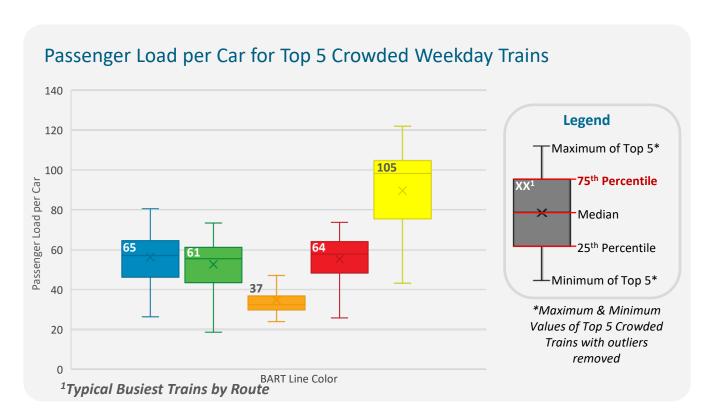


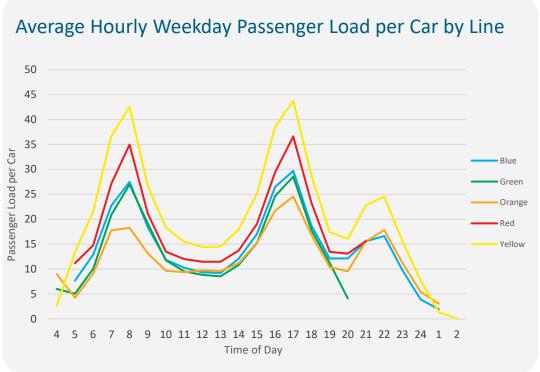




## Capacity – Passenger Loading

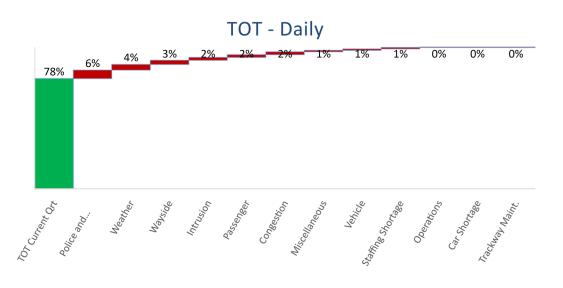




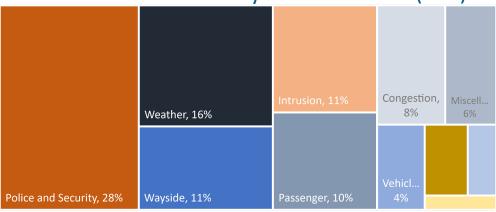


### Punctuality – Trains On-Time

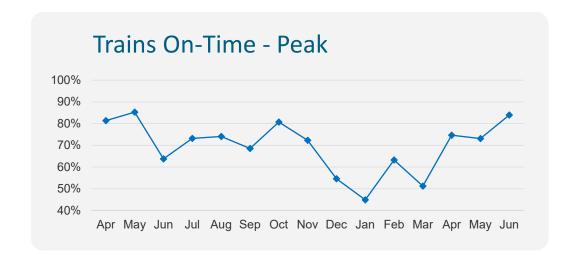








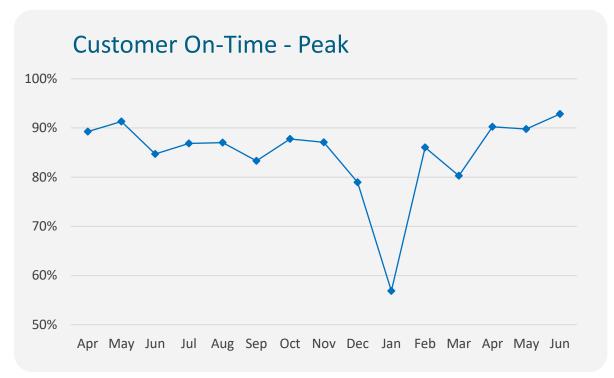




### Punctuality – Customer On-Time





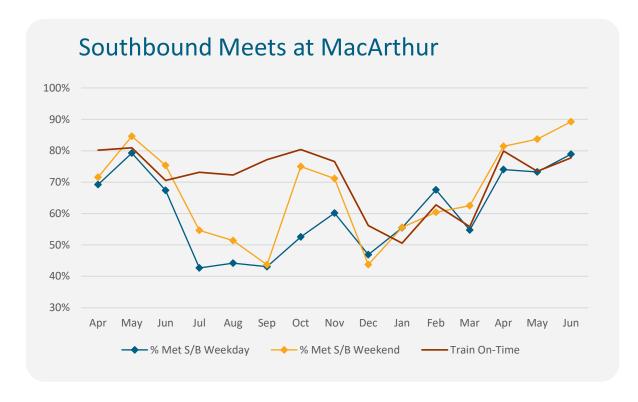


### Punctuality – Timed Train Meets



- 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>
  - <u>Southbound</u> trains meet at <u>MacArthur</u>

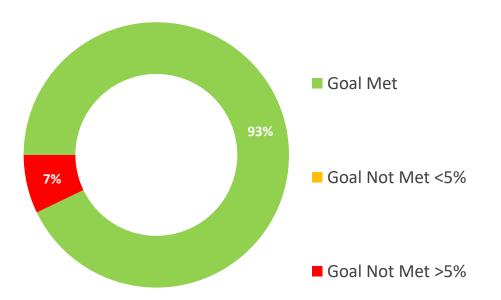




## Summary – Railway Asset Availability



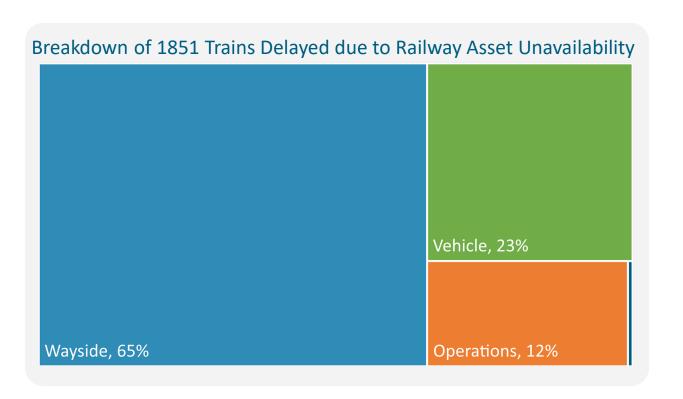




FY23 Q4	Goal	Change from FY23 Q3	
•		,	
0.11	0.30	(1000.00%)	
0.62	1.00	24.89%	
0.95	1.30	44.11%	
0.30	0.30	(256.00%)	
1.02	0.50	44.05%	
8844	6500	8.06%	
696	629	6.74%	
31003	20000	(66.80%)	
98.7%	98.0%	0.41%	
99.8%	97.0%	0.98%	
95.6%	93.0%	4.19%	
97.2%	96.0%	0.65%	
99.4%	98.0%	0.58%	
99.2%	95.0%	0.57%	
	0.62 0.95 0.30 1.02 8844 696 31003 98.7% 99.8% 95.6% 97.2% 99.4%	0.11 0.30   0.62 1.00   0.95 1.30   0.30 0.30   1.02 0.50   8844 6500   696 629   31003 20000   98.7% 98.0%   99.8% 97.0%   95.6% 93.0%   97.2% 96.0%   99.4% 98.0%	FY23 Q4   Goal   FY23 Q3     0.11   0.30   (1000.00%)     0.62   1.00   24.89%     0.95   1.30   44.11%     0.30   0.30   (256.00%)     1.02   0.50   44.05%     8844   6500   8.06%     696   629   6.74%     31003   20000   (66.80%)     98.7%   98.0%   0.41%     99.8%   97.0%   0.98%     95.6%   93.0%   4.19%     97.2%   96.0%   0.65%     99.4%   98.0%   0.58%

# Railway Asset Availability



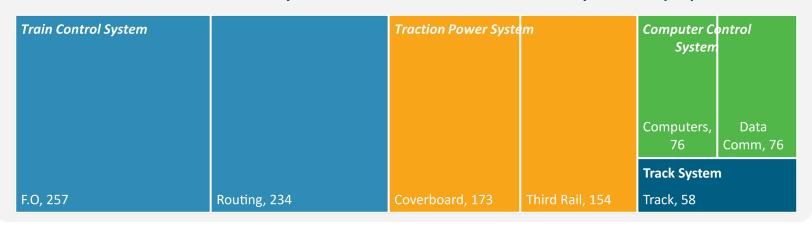


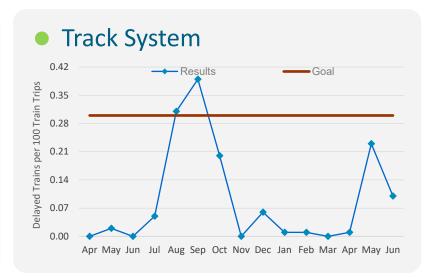
### Wayside Equipment – Delayed Trains by System 📙



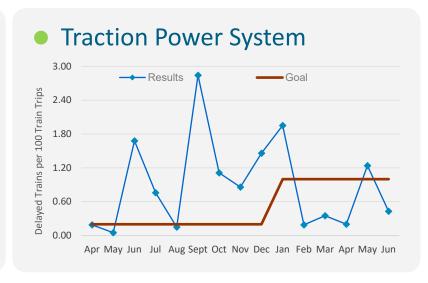


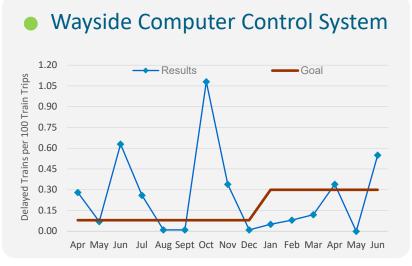
### Breakdown of 1028 Delayed Trains Attributed to Wayside Equipment





### Wayside Train Control System 2.50 Delayed Trains per 100 Train Trips 1.00 0.50 Results 0.00 Apr May Jun Jul Aug Sept Oct Nov Dec Jan Feb Mar Apr May Jun

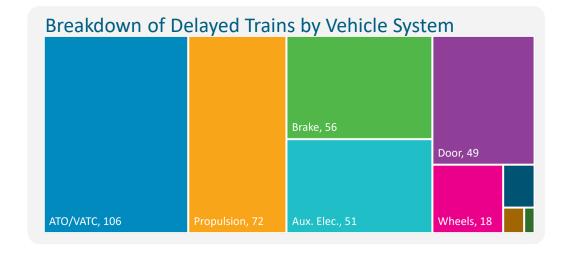


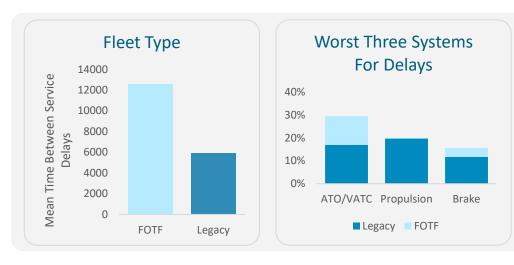


### Revenue Fleet – Reliability











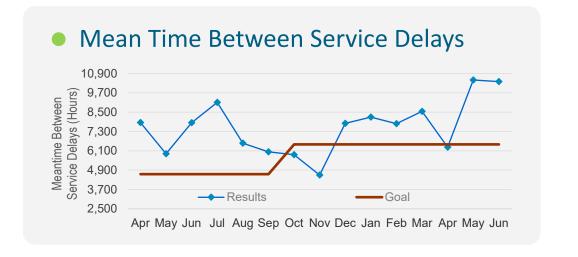
320

EGACY

FOTF

236 count as of 06/30/2





### 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 for Operations



## 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
  - Will reach <u>full-staffing</u> as current classes graduate
  - Continued but slowing pace of recruiting
- Rail Controllers
  - Five Rail Controllers in training during this quarter
- Foreworkers
  - Hiring is a priority for 2023/2024
  - Twenty Foreworkers in training





## Station Equipment – Elevator Availability





#### **Station Elevator**

Goal met

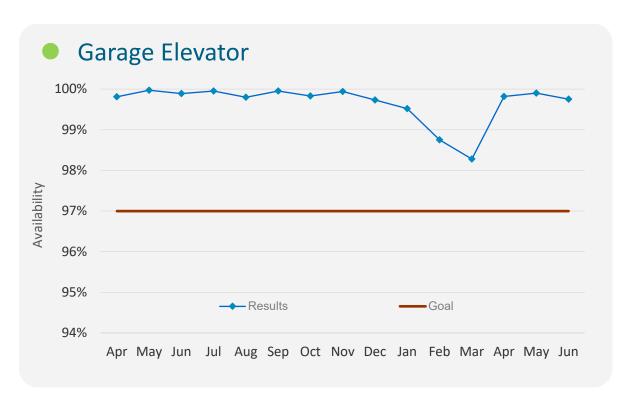


<sup>\*</sup>E-line Elevator and Escalator are included

### **Garage Elevator**

Goal met





## Station Equipment – Escalator Availability





### **Street Escalator**

Goal met

### **Street Escalator** 100% 98% 96% 94% Availability 92% 90% 86% 84% ---- Results Goal 82% 80% Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun

#### Platform Escalator

Goal met





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





### **Gate Availability**

Goal met



### **Vendor Availability**

Goal met





## Summary – Customer Experience



Metric	FY23 Q4	Goal	Change from FY23 Q3	
Customer Experience				
Overall Customer Satisfaction	73%		-	
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	9%		10%	
Fare Evasion	25.1%		8.39%	

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

## Customer Service - Experience



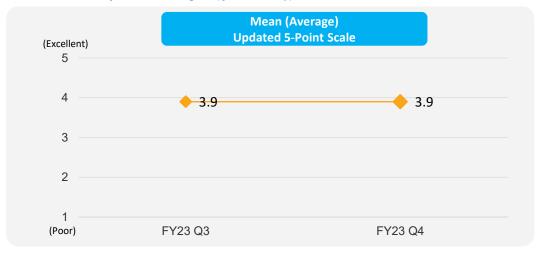
#### **Overall Customer Satisfaction**

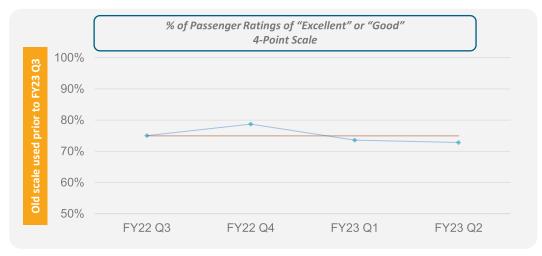
Overall, how satisfied are you with the services provided by BART?



### **Station Agent Customer Service**

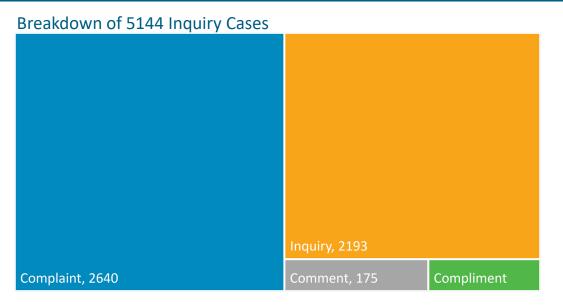
Customer service from Station Agent (if used today)

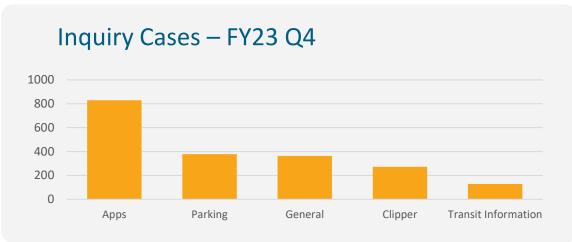


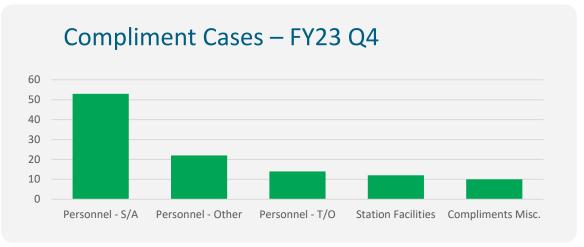


## Customer Service – Cases by Type





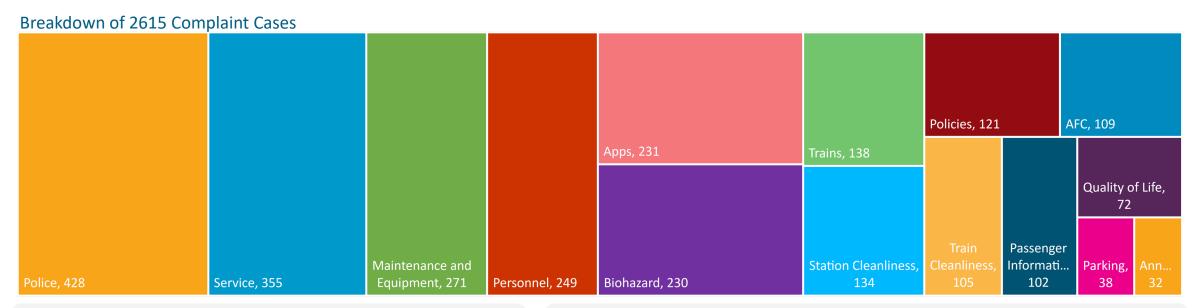


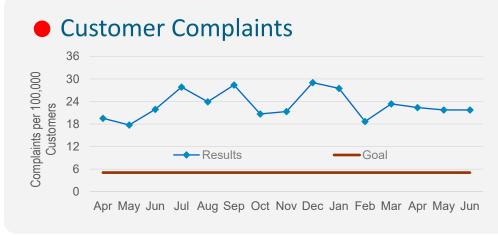


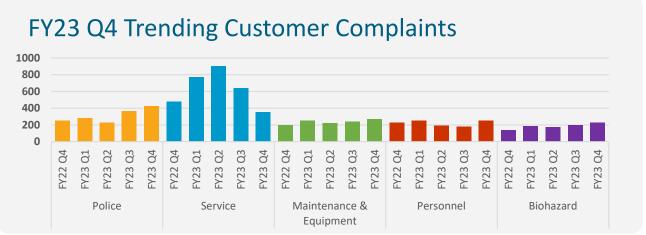
### Customer Service – Complaint Cases









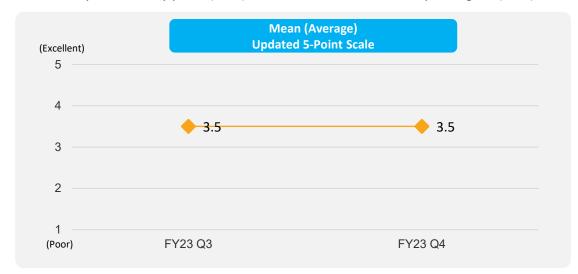


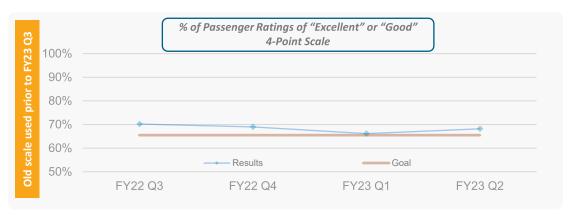
### Environment – Stations



#### **Environment Outside Station**

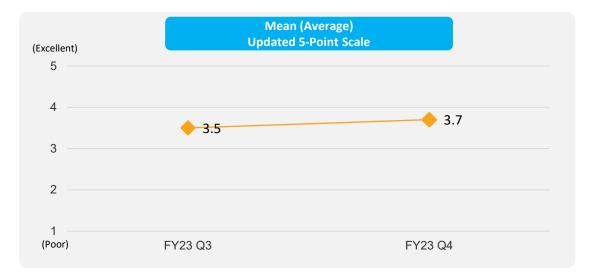
• This is a composite score which incorporates the appearance of BART landscaping, walkways, and entry plaza (67%), and the cleanliness of the parking lot (33%).

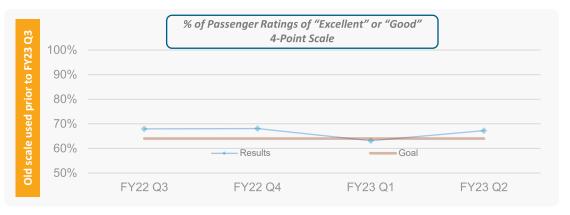




#### **Environment Inside Station**

 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%).



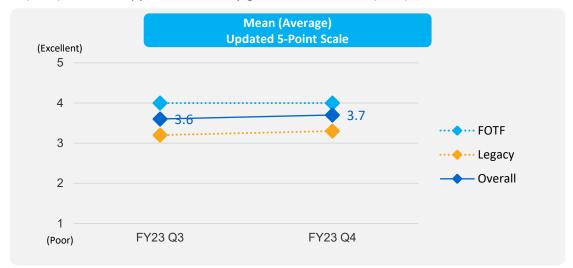


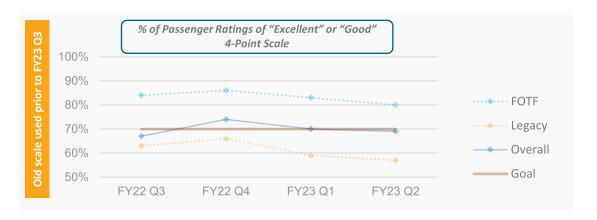
### Environment – Trains



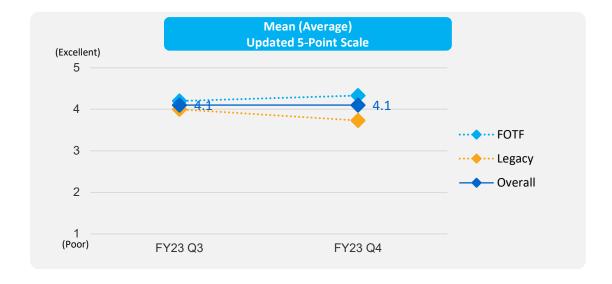
### Customer Rating – Interior Cleanliness

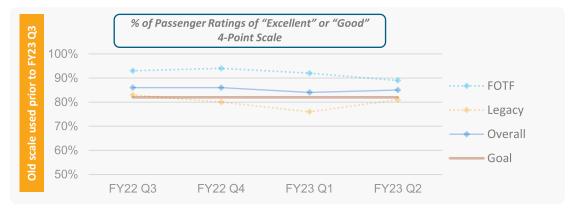
• This is a composite score which incorporates the appearance of the train interior (60%), and the appearance of any graffiti on the train (40%).





### **Customer Rating - Temperature**



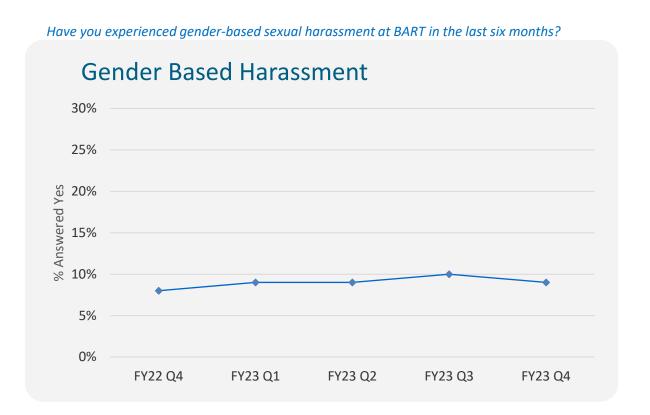


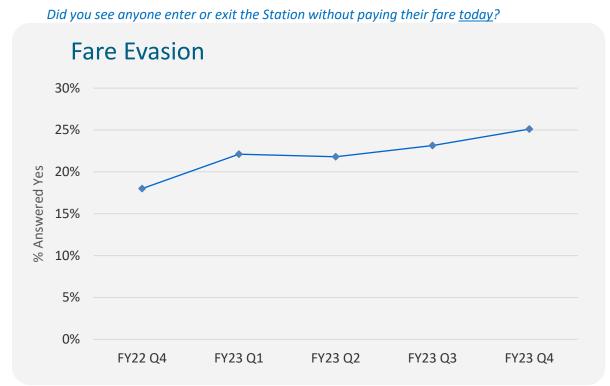
### Environment – Code of Conduct



Gender Based Harassment

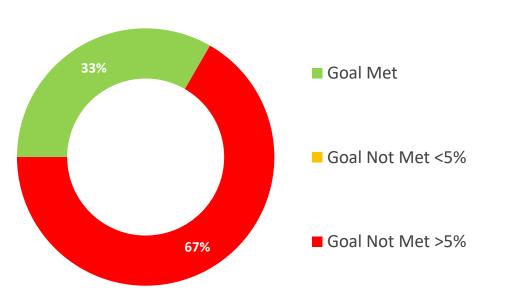
Fare Evasion





# Summary – Safety and Security





				1972-2022
Metric	FY23 Q4	Goal	Change from FY23 Q3	
Safety				
Vehicle Incidents/Million Patrons	0.42	0.6	35.38%	
Unscheduled Door Openings/Million Car Miles	0.45	0.2	(2.27%)	
Rule Violations Summary/Million Car Miles	0.27	0.25		
Station Incidents/Million Patrons	1.41	2	4.72%	
OSHA-Recordable Injuries/Illnesses/Per OSHA	12.81	12	6.15%	
Lost Time Injuries/Illnesses/Per OSHA	7.81	6.5	1.38%	
Security				
Police Response Time per Emergency Incident	3.96	5	(7.02%)	
Bike Thefts	30	50	(114.28%)	
Auto Thefts/1,000 Parking Spaces	4.09	2	(71.30%)	
Auto Burglaries/1,000 Parking Spaces	4.32	3.5	(31.64%)	

**BART Police Presence** 

Crimes Against Persons/Million Riders

(5.69%)

(14.97%)

9.1%

9.15

12%

## Safety – Passenger





#### **Station Incidents**

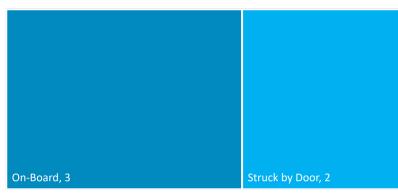
Breakdown of 17 Station Incidents





#### **Vehicle Incidents**

Breakdown of 5 Vehicle Incidents





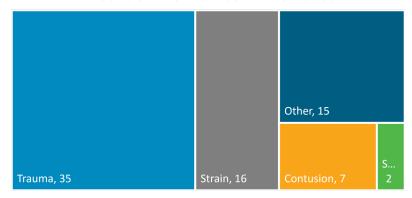


## Safety – Employee



### Lost Time due to Injuries

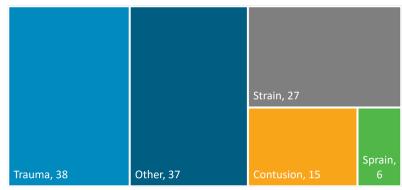
Breakdown of 75 Lost Time Cases





### **OSHA** Recordable Injuries

Breakdown of Recordable Injuries



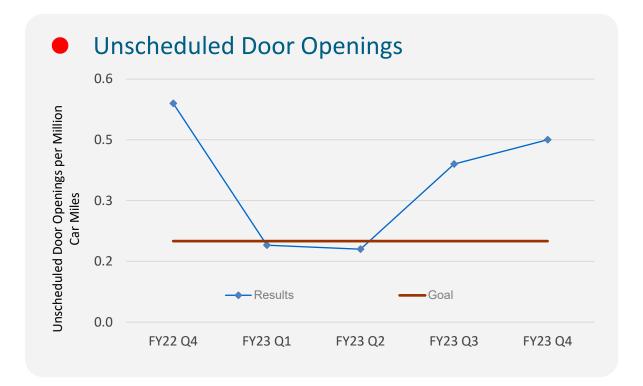


## Safety – Procedure Violations



### **Unscheduled Door Openings**

- 10 Unscheduled Door Openings in FY23 Q4
  - 8 due to Passenger Action
  - 1 Human Error by Train Operator
  - 1 Equipment Failure



#### **Rule Violations**

• 6 Rule Violations for FY23 Q4



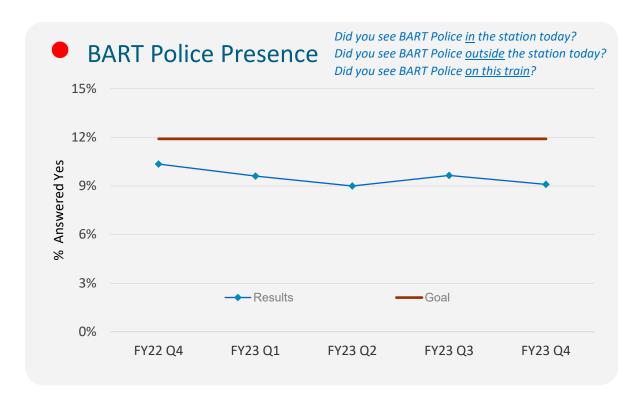
## Security – Police Coverage

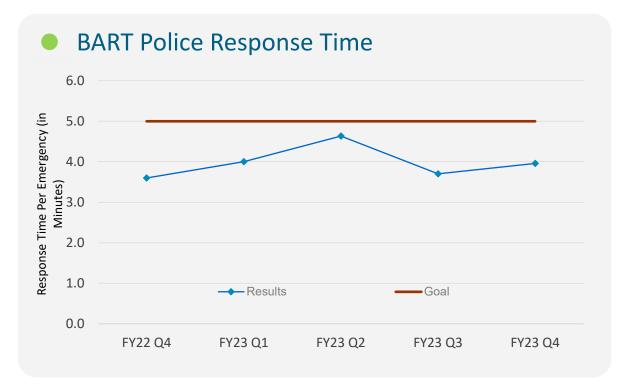


#### Police Presence

 Continued uniformed visibility, daytime and nighttime staffing at Civic Center

# Police Response TimeGoal met





## Crime – Theft and Burglary



#### Bike Theft

Goal met

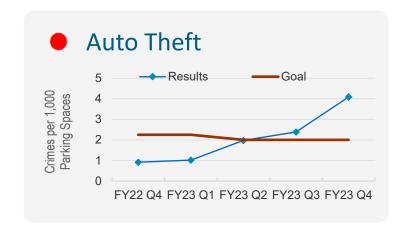
#### **Auto Theft**

Goal not met

### **Auto Burglary**

Goal not met







## Crime – Against Persons







## Progressive Policing Data – July 2023

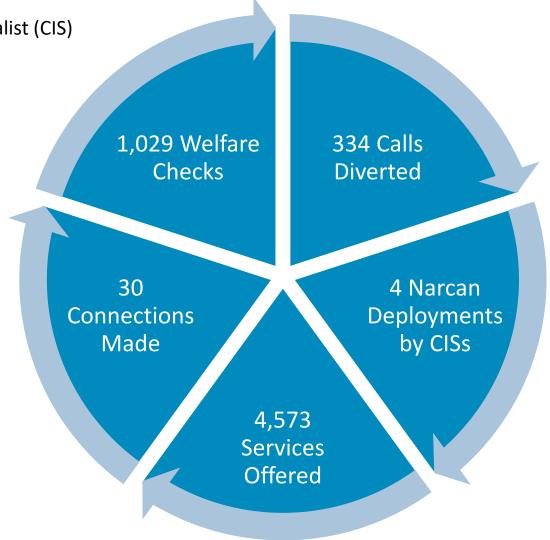
Progressive Policing Contacts are recorded by Crisis Intervention Specialist (CIS) Staff based on their daily interactions

### **Bitfocus Application**

- Software went live on July 1<sup>st</sup>
- Real-time field data instead of manual reports

### **Additional Data Points**

- 310 Refused services
- 452 Informational resources provided



## Questions?



