Next Generation BART Fare Gate

BART Accessibility Task Force (BATF)

May 25, 2023

Overview

- Vendor Highlights
- Fare Gate Features
- West Oakland Pilot
- Deployment Schedule

Qualification Highlights

- Proposed solution met each BART requirement specifically, without exception
- Fare Gates in service for more than 3.94 billion rides annually (pre-COVID)
- 26 years of experience with sensor technology
- Fully open architecture and modular design
- Extensive integration experience with TR4 and legacy systems
- STraffic has deployed more than 16,000 fare gates

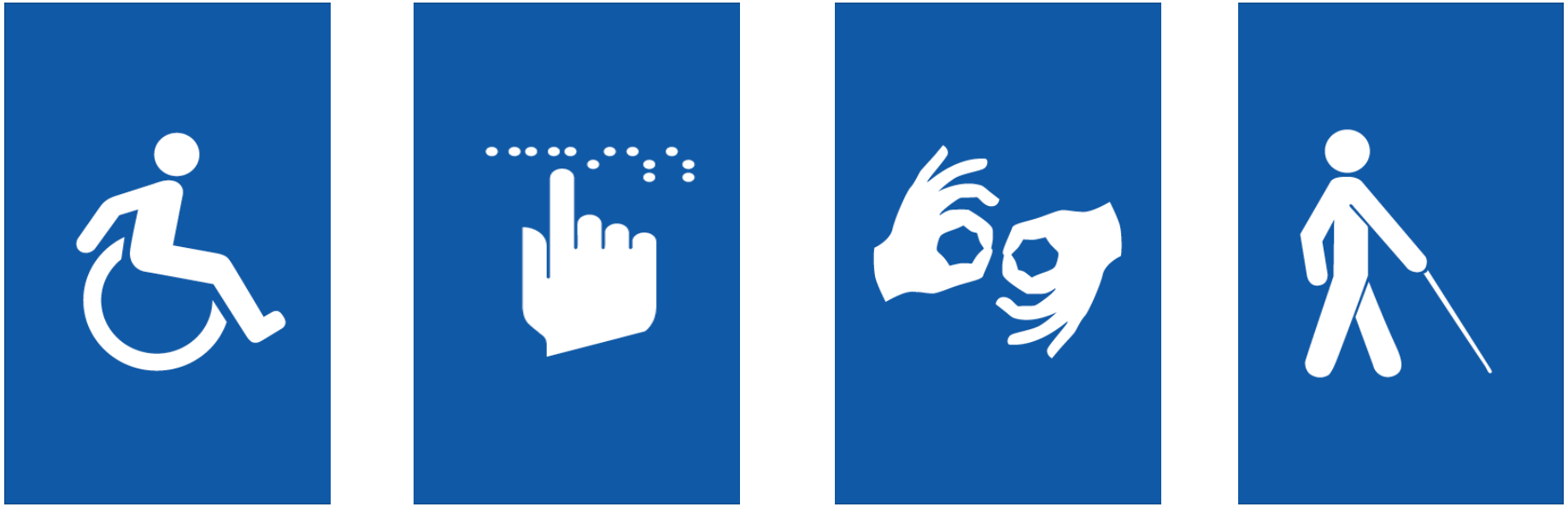
Beijing Mass Transit Railway
Operation Corporation Limited
北京市地铁运营有限公司

Community Engagement Commitment

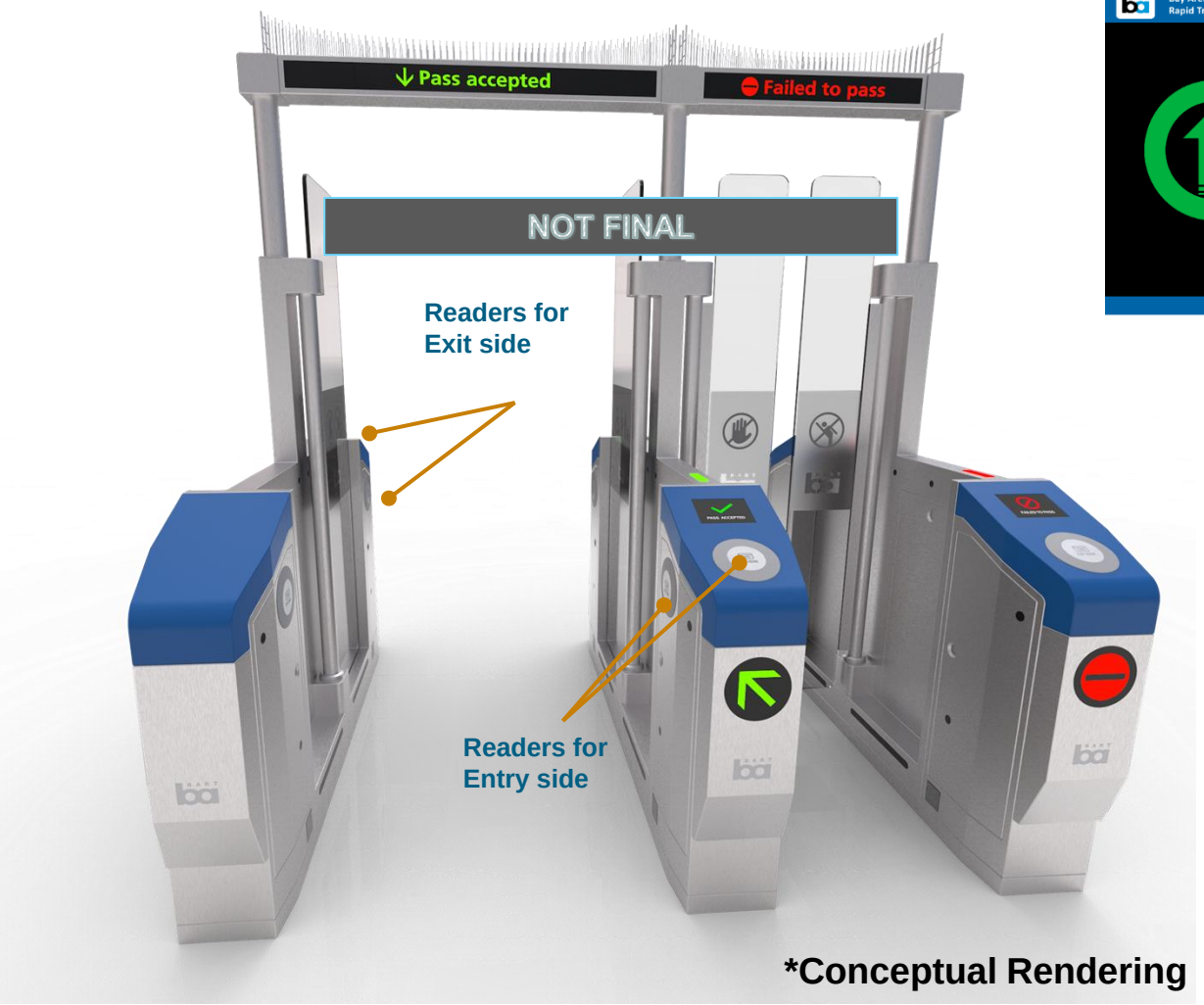
- 2,000 Hours of Internship Opportunities in Partnership with Bay Area Community Based Organizations

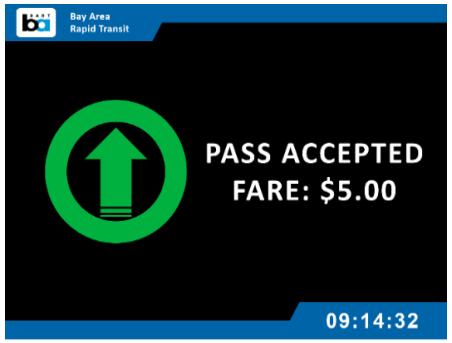
Improved Customer Experience: Accessibility

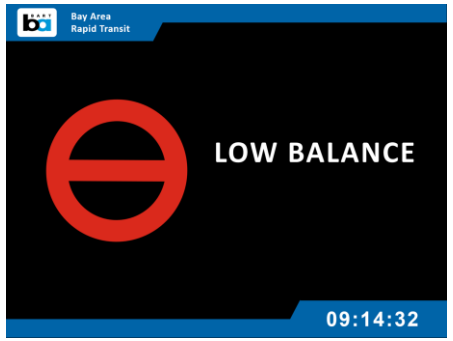
- STraffic has worked extensively with the ADA community and incorporated learnings into fare gate designs.
  - Equipped with top and side-mounted readers
  - Sensor technology for safe access of persons and service animals
  - Aisle lighting, messaging, and color-coding options



Improved Customer Experience: Customer Interface







Six (6) Readers per Aisle Possible

Approach to Fare Evasion Management

DETER

Physical Features

Fare Gate Performance

*Conceptual Rendering

DETECT

Sensors

✓ Infrared

✓ 3D Sensor

Audit Registers

✓ Gate Performance Monitoring

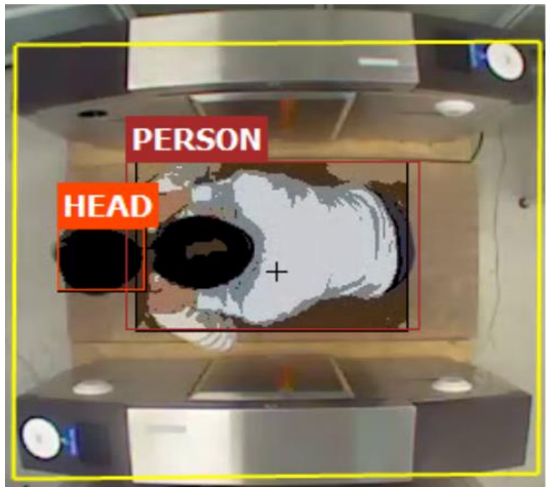
RESPOND

- Fare Gate Activation
- Alarms
- Fare Gate Performance
- Reporting

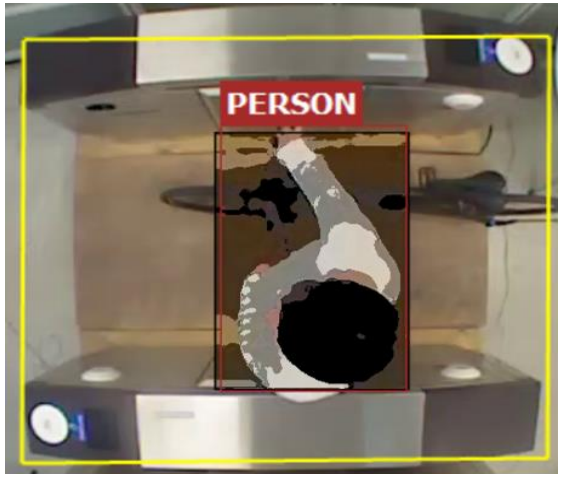
Data Supports Monitoring, Analytics and Ongoing Response

Detect - Advanced Sensor Technology

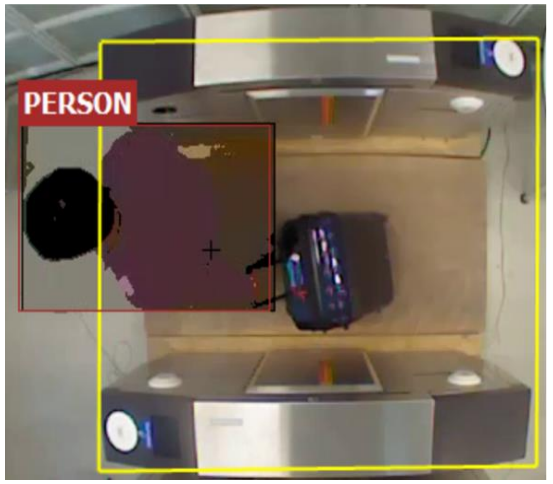
- ✓ Infrared
- ✓ 3D Sensor
- ✓ Camera



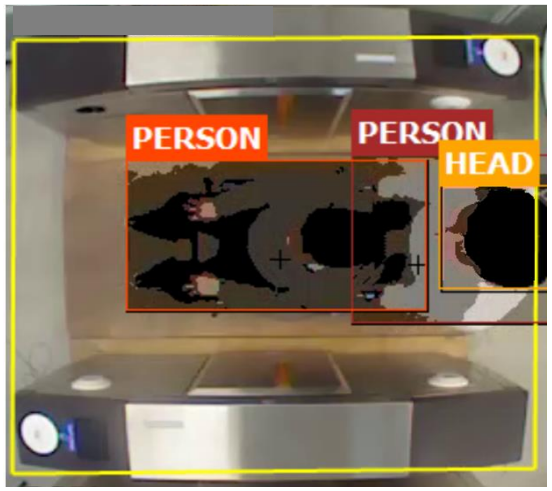
Piggybacking



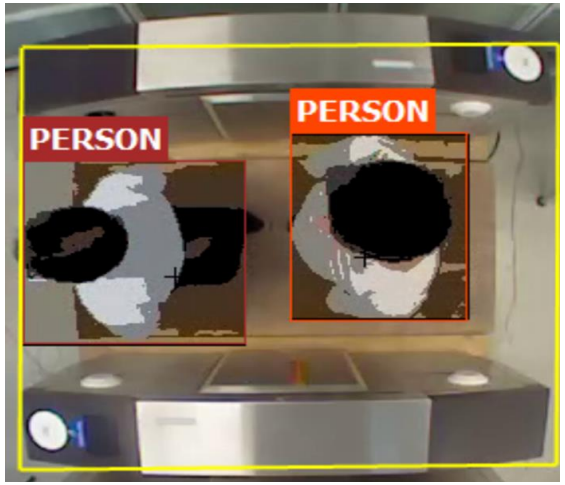
Bicycle



Luggage



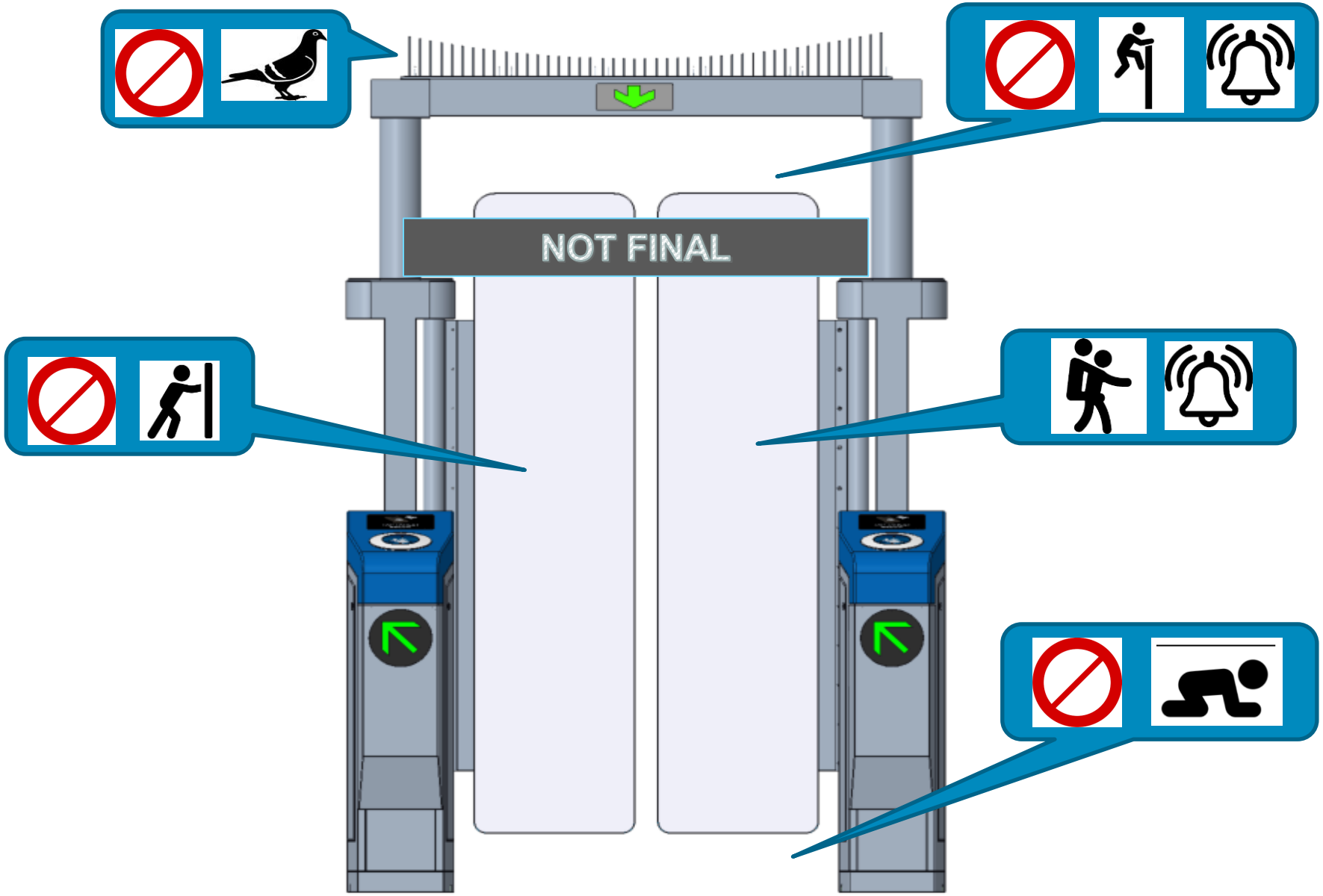
Wheelchair (2 persons)



Tailgating

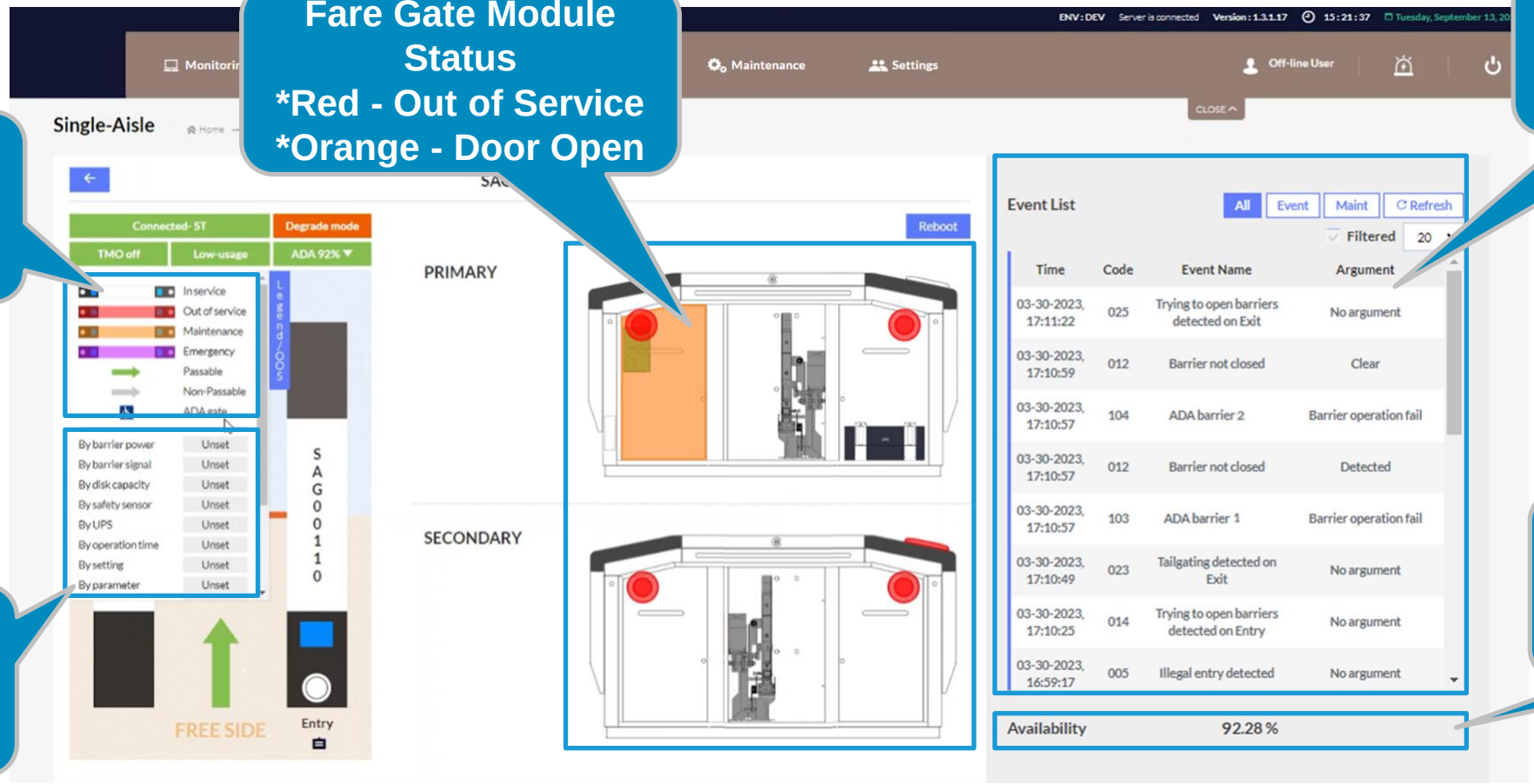
No facial recognition

Deter



Respond - Monitoring/Metrics

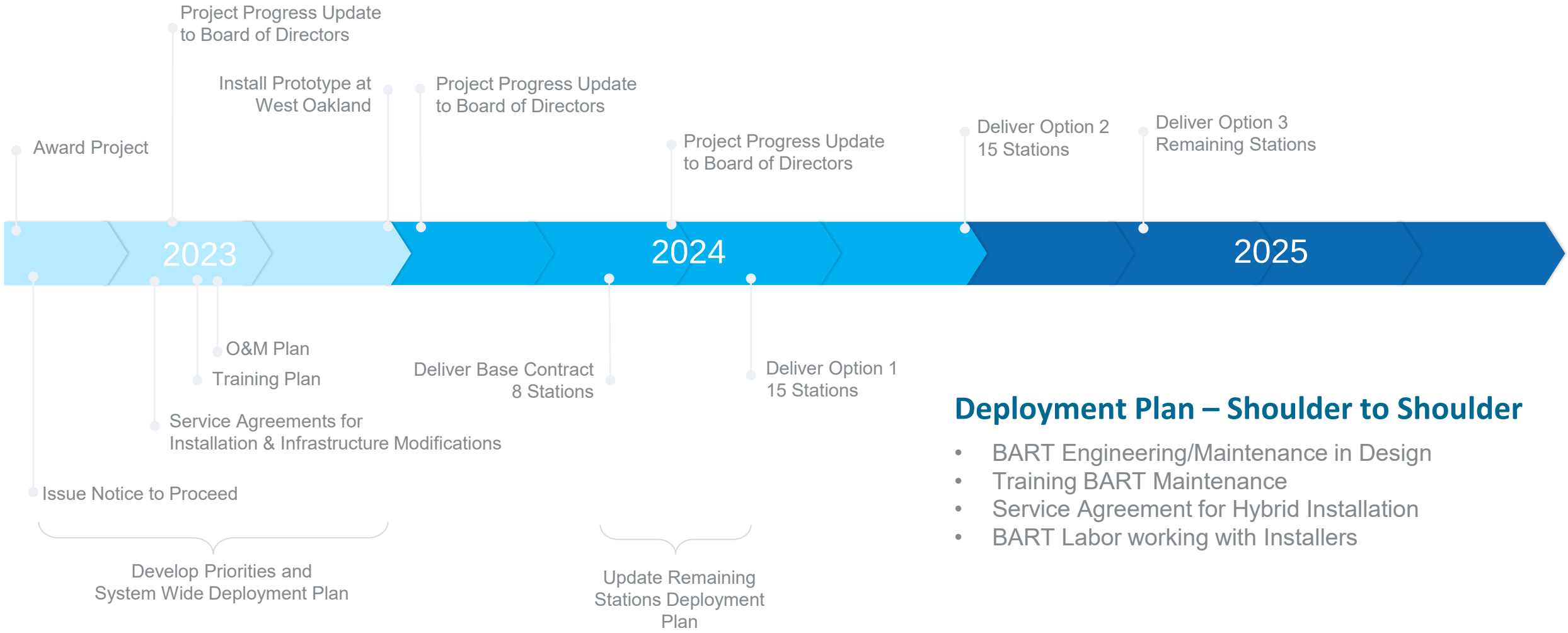
- Graphical User Interface for point-and-click, real-time control over fare gate.



Pilot West Oakland

- Single Array
- Geographically Close to Maintenance and Engineering Staff
- Investment in West Oakland

Next Generation Initial Deployment Schedule



Deployment Plan – Shoulder to Shoulder

- BART Engineering/Maintenance in Design
- Training BART Maintenance
- Service Agreement for Hybrid Installation
- BART Labor working with Installers

Questions?