Next Generation Fare Gate Vendor Selection

Entranco

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April 2023



Overview

- Vendor Selection Process
- DBE & Diversity
- Fare Gate Features
- West Oakland Pilot
- Deployment Schedule
- Motion





Vendor Selection Process

- Request for Information (RFEI) Sep 28, 2020
- RFEI Responses Dec 11, 2020
- Board approved procurement method Jan 13, 2022
- Request for Proposal (RFP) May 31, 2022
- Proposals Due Oct 11, 2022
- Request to reject all Proposals Dec 1, 2022
- Re-advertise RFP Dec 2, 2022
- Proposals Due Jan 10, 2023
- Informational Update to the Board Mar 23, 2023
- Request to authorize the General Manager to award Contract Today

Evaluation panel comprised of:

• 9 BART Cross Department Staff

Evaluation

Technical Approach

3

- A. Ability to meet the project goals
- B. Extent the proposal meets and/or exceeds the Technical Specification requirements
- C. Extent of customization and new development required to meet the Technical Specifications
- D. The efficiency of the proposed approach to system integration
- E. Modularity and scalability of the solution

Qualifications of the Firm and Proposer's Team

- A. Number of years in business manufacturing gates
- B. Strength of experience in fare gate manufacturing, system integration, training and equipment maintenance
- C. Strength of experience of the proposed team

Price

40

40

20

- A. Lowest Price receives 20 points
- B. Others are based on a formula:
 - $[1 (B A) / A] \times C =$ Final Cost Score where:
 - A the lowest Proposer's Price
 - B Proposer's Price being scored
 - C the maximum number of cost points available

Oral Interview

- A. Strength of the firm's understanding of BART's business needs
- B. Degree to which demonstrated features match BART's business needs
- C. Innovative feature available to BART



Recommendation



Evaluations Summary and Final Ranking

	Proposer		Technical Approach	Team Qualificatio	Price ns	Oral Interviews	Grand Total	Rank
	Conduent Transport Solutions,		29	18	19.4	16.7	83.25	2
	Cubic Transportation Systems, Inc.		26	18	20.0	14.3	77.89	3
	STraffic Am	36	19	19.5	19.1	93.21	1	
"Flexibility to onfigure the gates." "Gat			s will be o naintain.			com	st bench is prehensive organized.'	•



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- 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



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The STraffic DBE & Diversity Team



e² Engineering Training

- DBE certified training firm specializing in Intelligent Transportation Systems (ITS)
- Richard Easley, President: 35+ years experience in 34 states, DC, 22 countries

VST Engineering Maintenance & Deployment Support, QA/QC Support

ENGINEERING

- DBE certified firm in the Bay Area
- 30 years collective experience delivering capital projects from conceptual design through implementation



Pride Resource Partners LLC

Contract Compliance, Scheduling, Supervisory Oversight

- Project & construction management organization, headquartered in CA
- Understands complex dynamics of critical infrastructure projects
- LGBT-owned & operated DBE; certified by the National LGBT Chamber of Commerce, Small Business certified by the CA DGS

Partnerships enhance STraffic's team experience and fulfill BART's project goals



Community Engagement Commitment

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

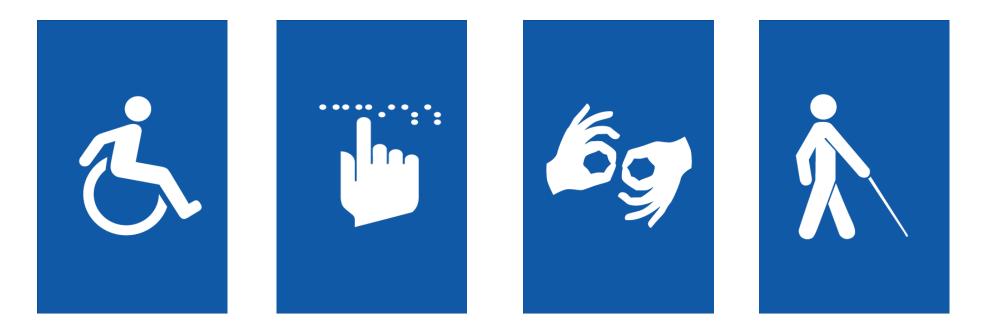






Improved Customer Experience: Accessibility

- 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

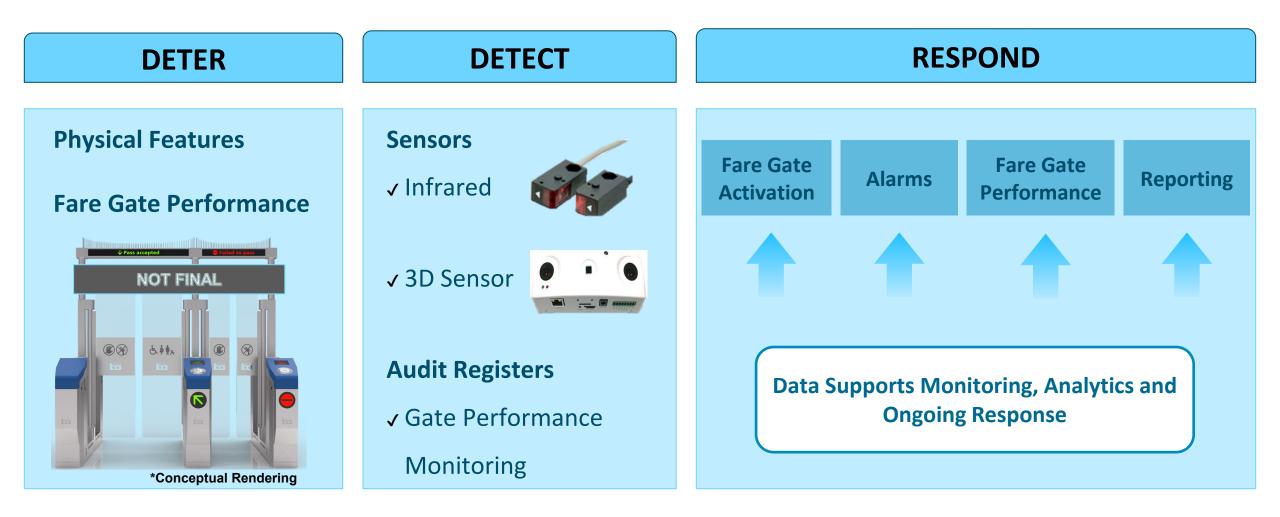




Improved Customer Experience: Customer Interface

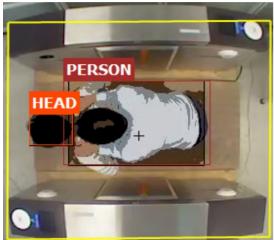


Approach to Fare Evasion Management

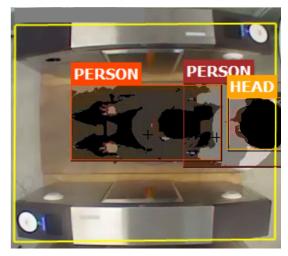




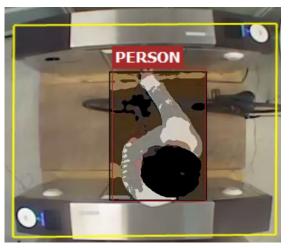
Detect - Advanced Sensor Technology



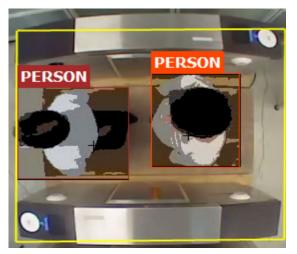
Piggybacking



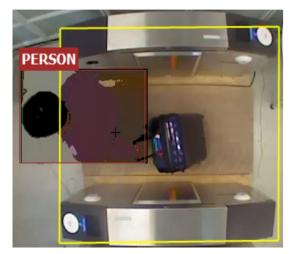
Wheelchair (2 persons)



Bicycle



Tailgating



Luggage



No facial recognition



Infrared

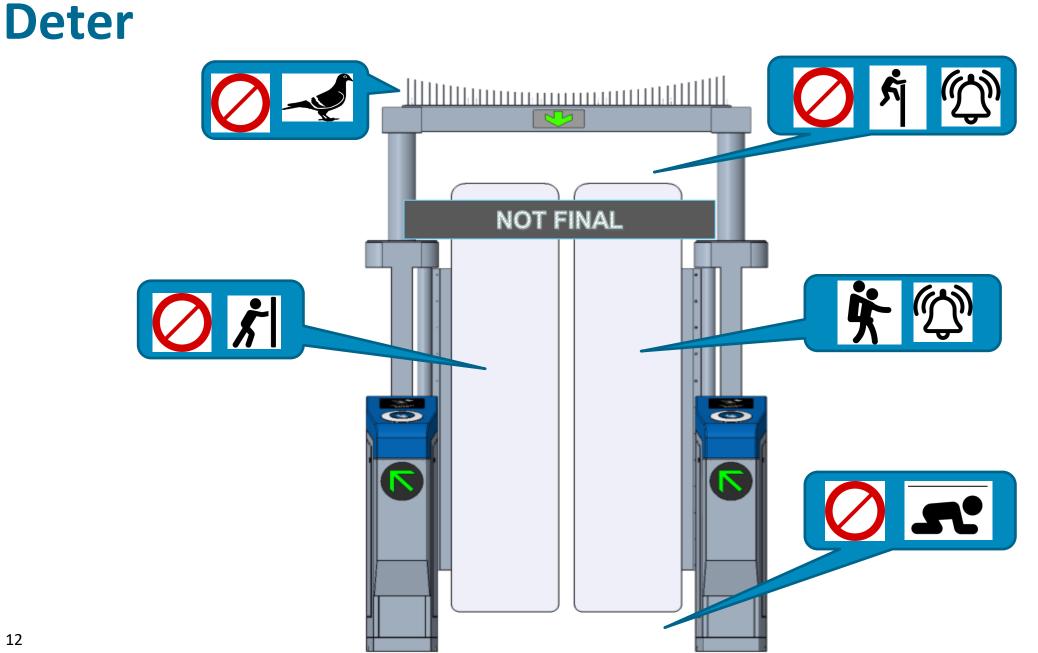
Camera

3D Sensor

 \checkmark

 \checkmark

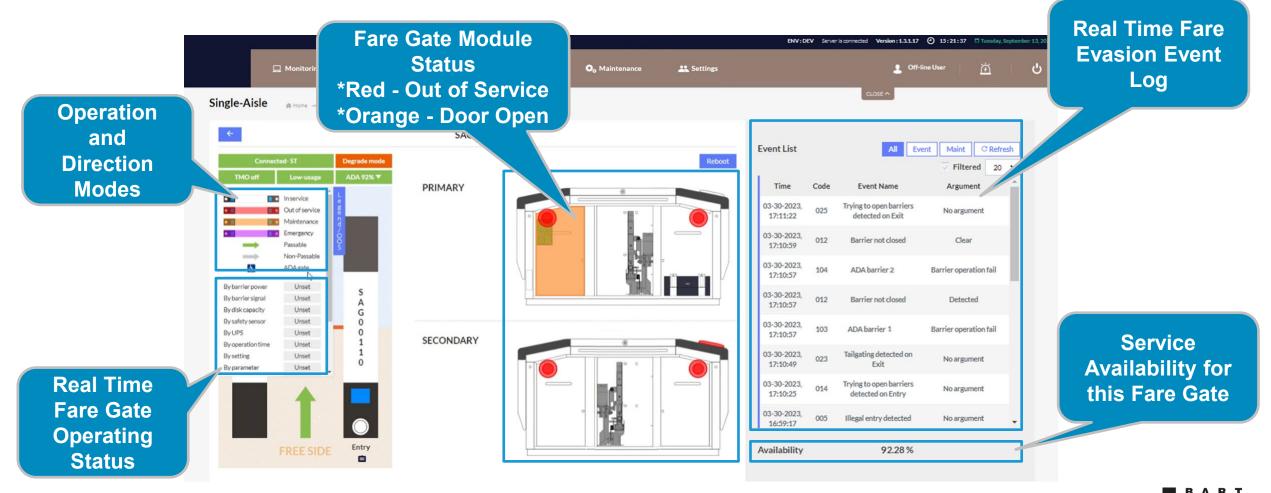
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Respond - Monitoring/Metrics

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

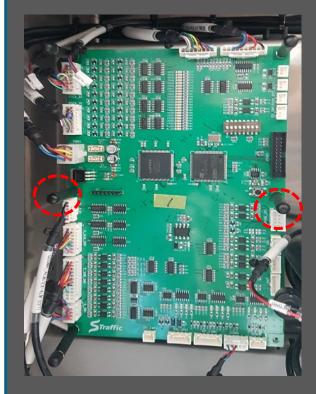


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Improved Maintenance: Change Any Component

No Tools Required

- Cabling
- Board Replacement



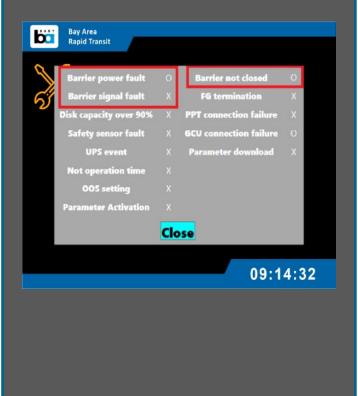
Modular Design

Plug and Play Replacement





Self Diagnostic Tools





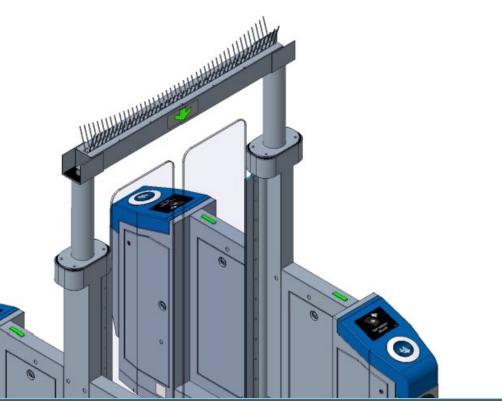
Improved Troubleshooting—Comprehensive Test Bench





Improved Installation:

- Modular Overhead Bridge Design
- Gate Fits on Existing Footprint



NOT FINAL

*Conceptual Rendering

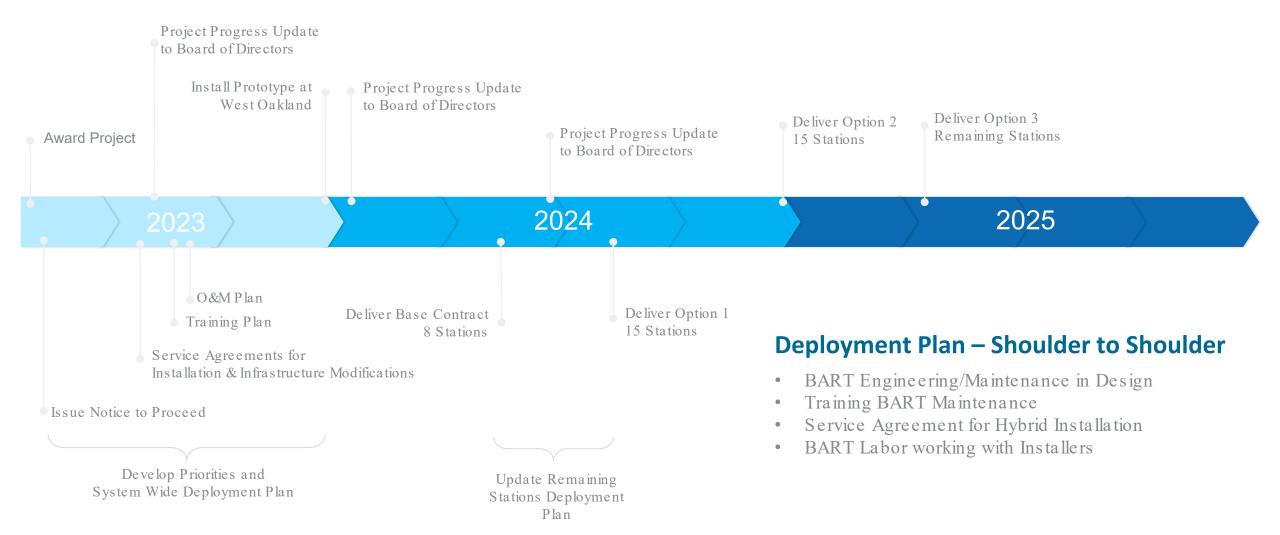
Pilot West Oakland

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





Next Generation Initial Deployment Schedule



Board Motion

- The Board finds that STraffic America, LLC has submitted the proposal in response to RFP No. 47CJ-230A that is the most advantageous to the District based on the highest evaluation score received (which considers the proposer's technical proposal, price proposal, and other factors).
- To that end, the General Manager is authorized to award Contract No. 47CJ-230A to STraffic America, LLC in the base contract amount of \$11,271,900 (including all applicable taxes) for the procurement of Next Generation Fare Gates, upon certification by the Controller-Treasurer that funding is available, pursuant to notification to be issued by the General Manager, and subject to the District's protest procedures and the Federal Transit Administration's requirements related to protests.
- The General Manager is further authorized to exercise any and all options for a total amount not-to-exceed \$47,160,000 (base price plus option prices) (including all applicable taxes) upon certification by the Controller-Treasurer that funding is available.

Aileen Hernandez Albert Louie Albert Schmitt Alex Caburnay Alex Walker Amanda Cruz Amanda Palmquist Anaïs Mailinge Antoin Vo Bradley Harris Bruce King Calvin Yee Carlbert Fuertes Celestine Do Charlie Greer Dave Taylor David Garcia David Pultz David Wen Donna Lee

Emily Chou Evan Brown Fernando Flores Harmanjot Singh John Yen Jonathan Castaneda Kenneth Tolbert Lacy Vong Man Hong Lam Markus Ngo

Michael Hill Mitra Moheb Molly Golson Phaethon Brown Priya Mathur Qing Liu Ray Painter Ray Painter Raymond Pascual Richard Fuentes Rob Jaques Robert Day Robert Franklin Shannon Dodge Shelehia Meisner Steven Dietrich Sunni Gunawardena Tony Zielonka Weldon Chen Wendy Wheeler

Thank you!

