



Safe Trips to BART: An Action Plan for Safer Roadways

August 4, 2025

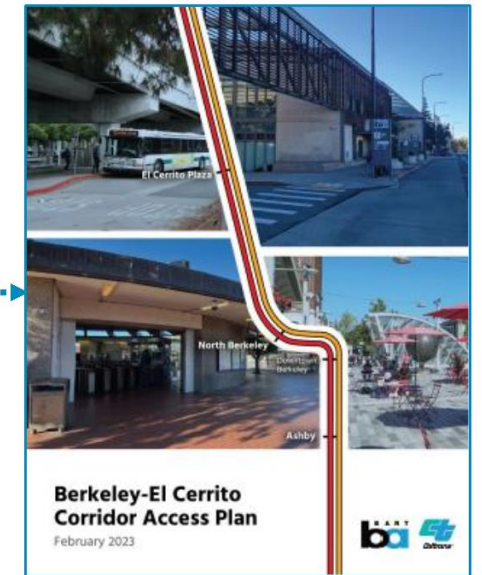
BART Bicycle Advisory Task Force



TWO TIMES MORE LIFE-ALTERING ROADWAY CRASHES

BART Rider Access

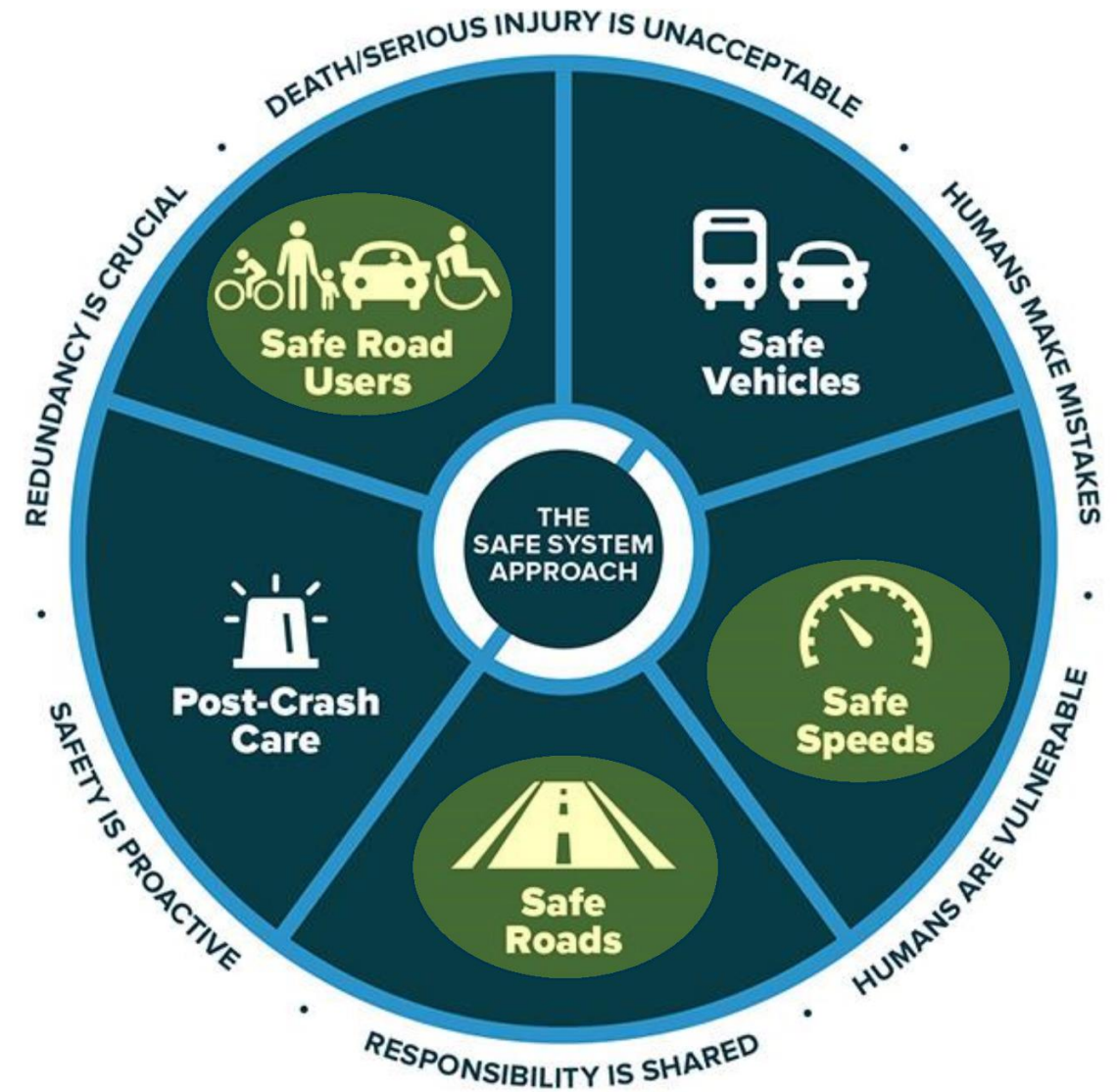
- BART cares deeply about safe rider access
 - Capital Projects
 - Ashby bicycle access project (2024)
 - MacArthur 40th Street underpass (in progress)
 - Programs
 - Safe Routes to BART grant program (Since 2020)
 - Plans and Guidance
 - Berkeley-El Cerrito Corridor Access Plan (2023)
 - Walk and Bicycle Network Gap Study (2020)
 - North Concord to Antioch Access Study (2018)
 - Multimodal Access Design Guidelines (2017)



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Project Overview

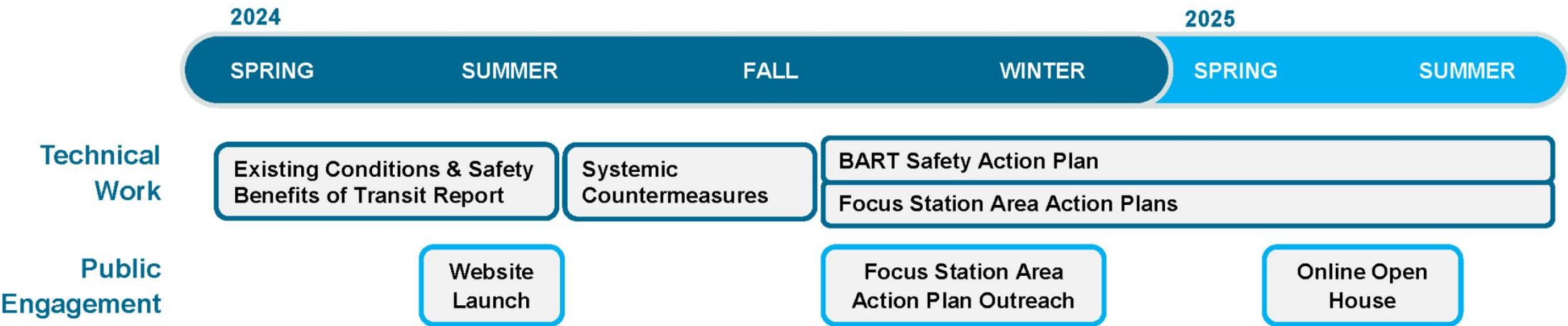
- Funded by USDOT's Safe Streets and Roads for All (SS4A) Planning Grant
- Guided by BART Station Access Policy
 - Safer, healthier, greener
 - Ensure safe access for all users of the BART system...
 - Better experience
 - Collaborate with local jurisdictions to improve station access...
- Focus on improving traffic safety using Safe System Approach



Source: FHWA.

Project Overview


- Where are fatal and serious injury roadway crashes concentrated and why?
- What are our partner agencies doing to improve roadway safety on public streets and what other measures could they consider?
- Could improving BART service levels lead to better roadway safety?

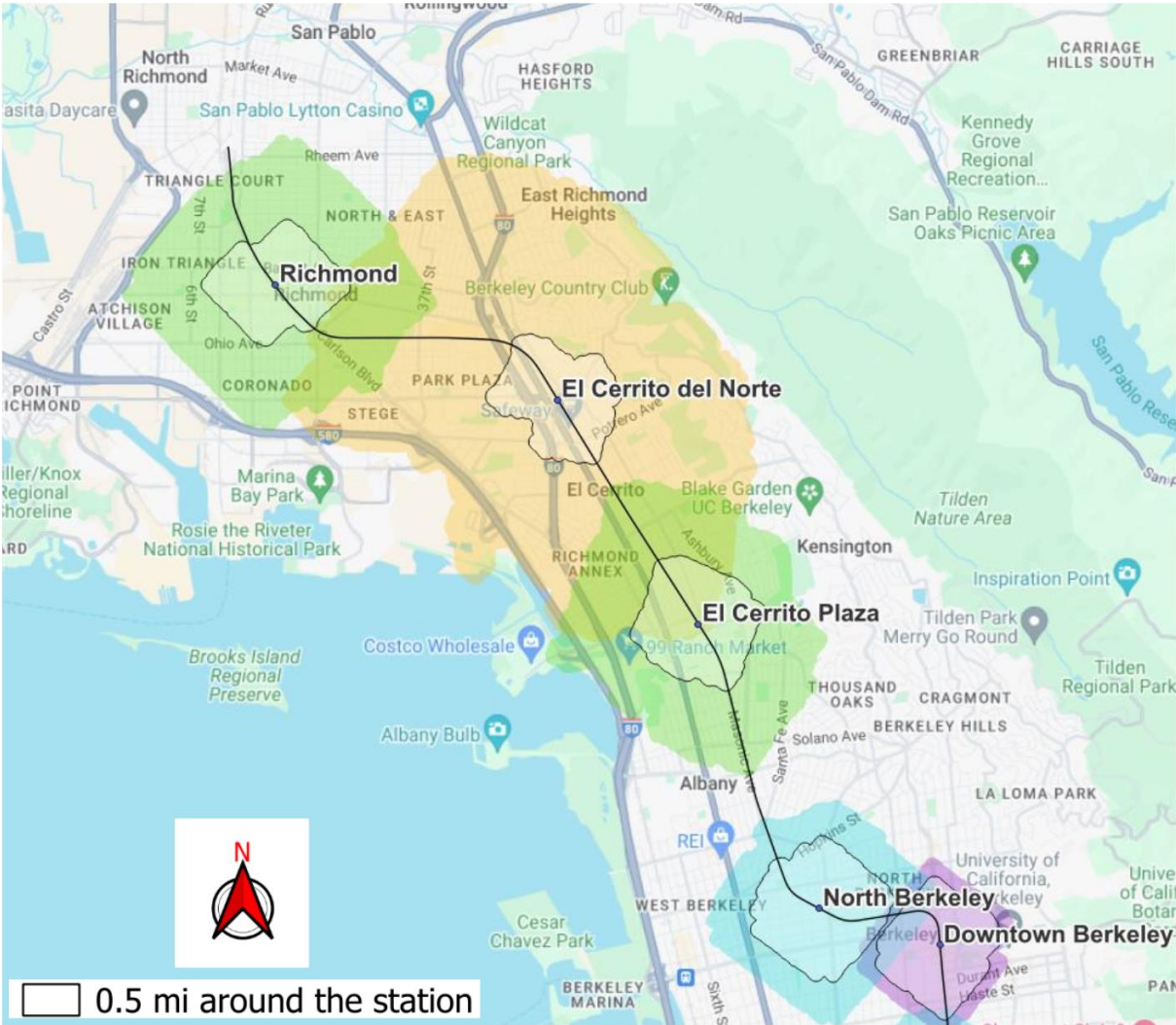


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Existing Conditions Analysis

- Define Station Study Areas
 - Non-airport stations
 - Access to BART on local public streets
 - Average travel distance for walking and driving by station access type

BART's Station Access Type	Auto Mode Share	Average Travel Distance (miles)
Urban	Less	0.66
Urban with parking		0.81
Balanced intermodal		1.16
Intermodal - Auto reliant		1.96
Auto dependent	More	1.96



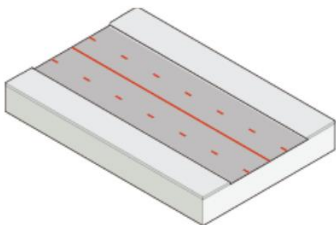
Existing Conditions Analysis

KSI Crashes on Public Streets in BART-served Counties

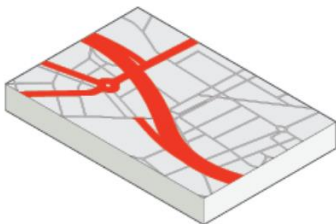
*A **KSI crash** is a collision that resulted in at least one person being **killed** or **seriously injured***

	BART Station Study Areas	
	In	Out
Public Roadway Miles	14% (2,801)	86% (17,928)
KSI Crashes	24% (1,873)	76% (5,929)
KSI Crashes Per 100 miles Of roadway	67	33

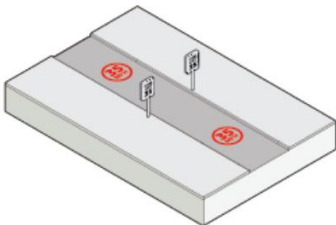
Roadway Characteristics



4+ Lanes



Arterial Roadways



Speed > 35mph

BART-served counties are Alameda, Contra Costa, San Francisco, San Mateo, and Santa Clara
Crash data for years 2019 to 2023 from the Transportation Injury Mapping System (TIMS), *Safe Transportation Research and Education Center, University of California, Berkeley.*

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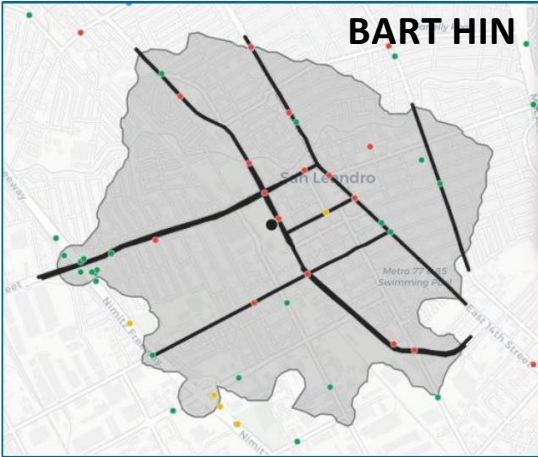
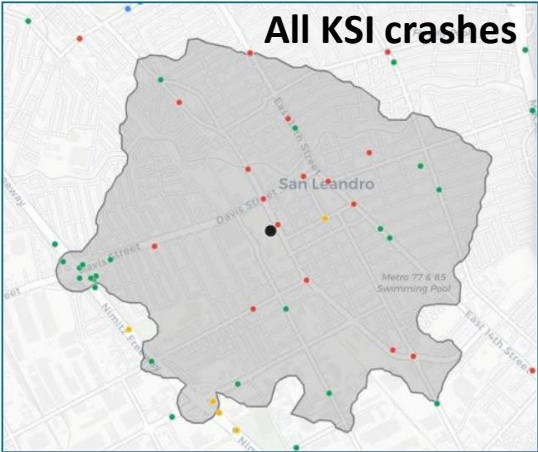
Existing Conditions Analysis

Crashes on Public Streets in BART Station Study Area

A High Injury Network (HIN) is a tool to identify the most collisions on the least amount of roadway miles

	BART High Injury Network	
	In	Out
Public Roadway Miles	18% (508)	82% (2,293)
KSI Crashes	76% (1,416)	24% (457)
KSI Crashes Per 100 miles Of roadway	279	20

Example



Crash data for years 2019 to 2023 from the Transportation Injury Mapping System (TIMS), *Safe Transportation Research and Education Center, University of California, Berkeley.*

Toolbox of Roadway Safety Measures

High
impact



Low
impact

Tier 1:
Remove Severe Conflicts

Tier 2:
Reduce Vehicle Speeds

Tier 3:
Manage Conflicts in Time

Tier 4:
Increase Attentiveness and Awareness

EXAMPLES



Source: NCHRP

Protected Intersections



Source: NCHRP

Curb Extensions



Source: NCHRP

Pedestrian Hybrid Beacons

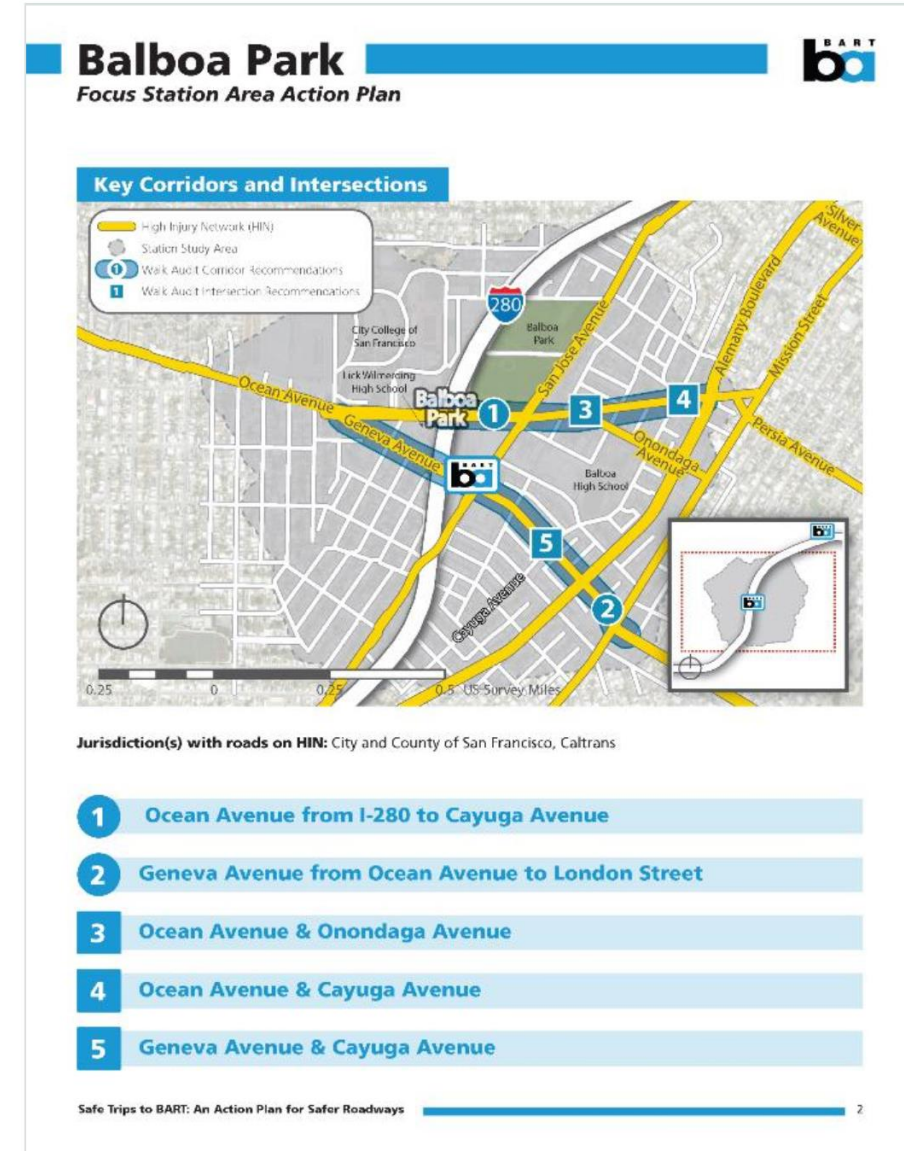


Source: NCHRP

Rectangular Rapid
Flashing Beacons

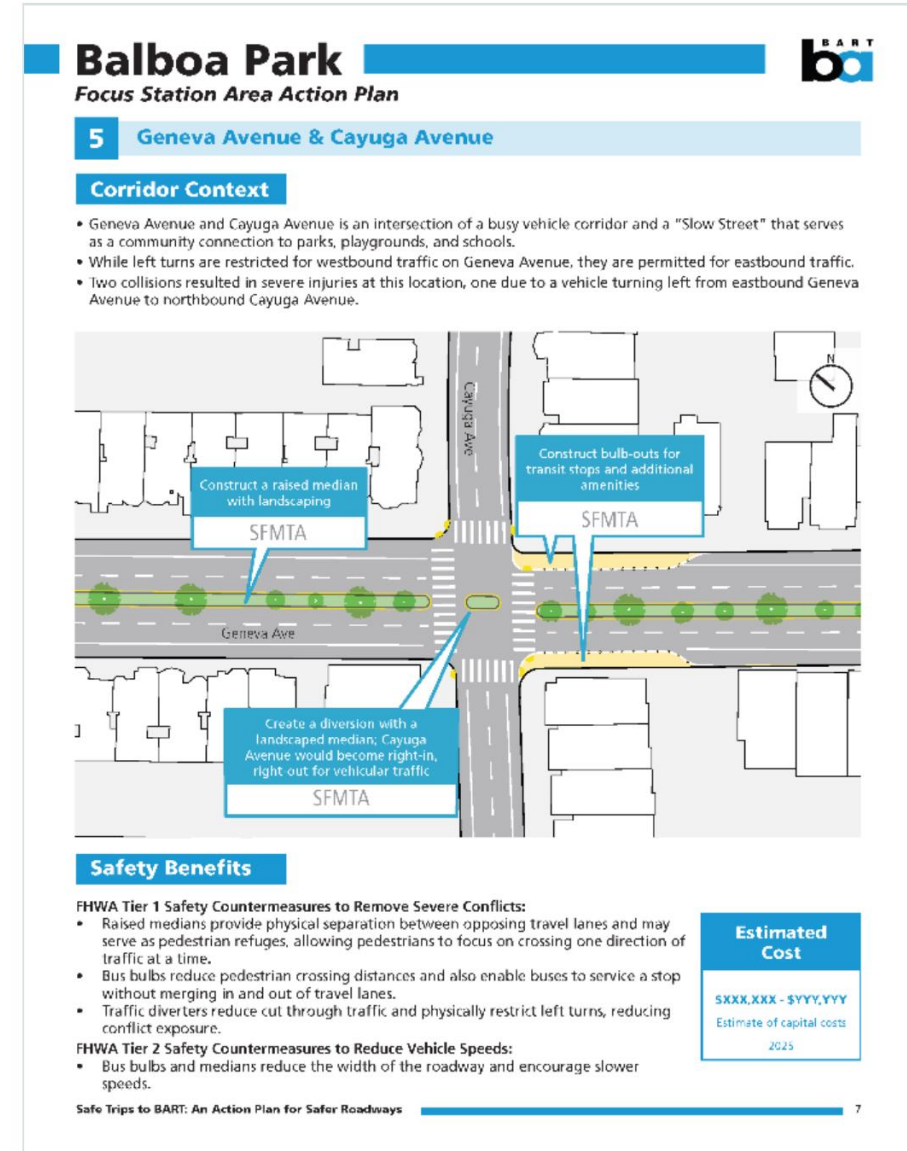
Focus Station Area Action Plans

- Seven FSAAPs completed
 - Balboa Park
 - Coliseum
 - Colma
 - Concord
 - Hayward
 - Milpitas
 - Richmond
- Demonstrates using the Plan
 - Chapter 3 & Appendix D: Safety analysis
 - Chapter 4: Roadway Safety Toolbox
- FSAAP elements
 - Identifies safety measures, implementing agency(ies)
 - Calculates planning-level cost estimates
 - Specifies safety benefits
 - Captures key information, planned projects



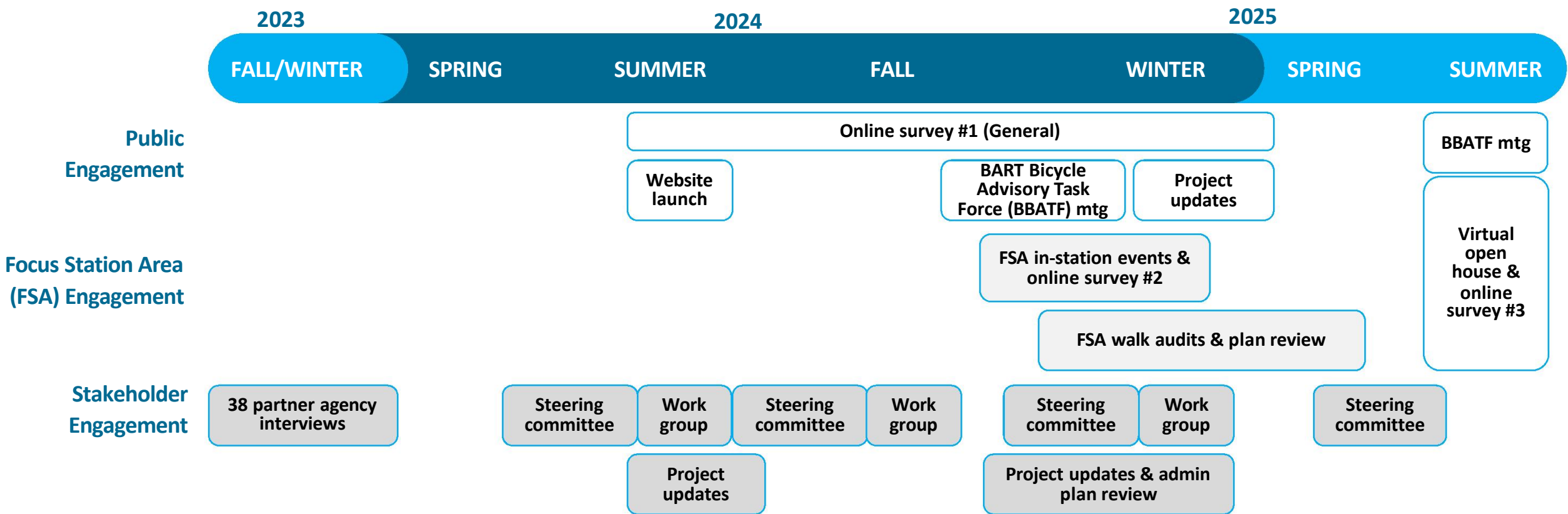
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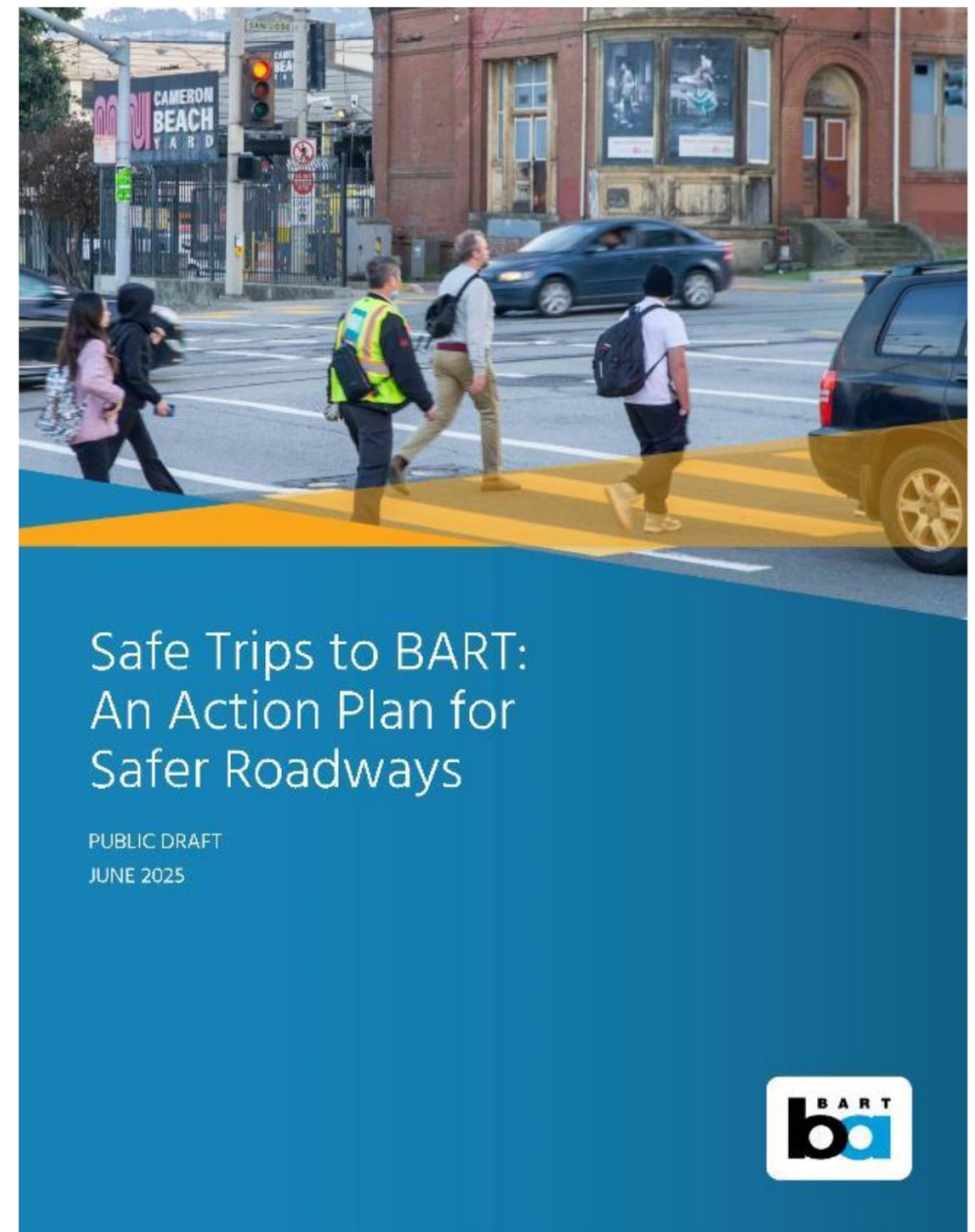
Engagement



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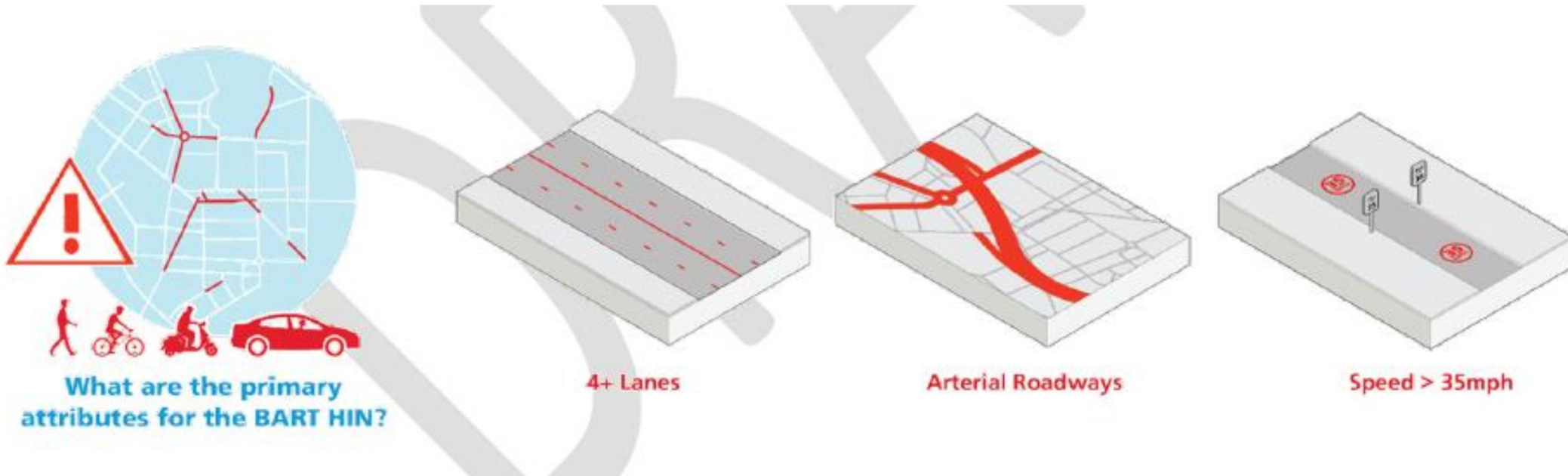
Community Engagement

- ~600 responses to #1 and #2 online surveys
 - Pedestrian safety, speeding concerns around BART stations
 - Specific locations with safety concerns within seven Focus Station Areas
- Virtual Open House (bart.gov/trafficsurvey)
 - Draft Safety Action Plan
 - Draft Focus Station Area Action Plans
 - Survey (June 25 through August 6)
 - Informational video
 - English, Spanish, and Chinese



BART Service Levels and Roadway Safety

- Could improving BART service levels lead to better roadway safety?
 - Not on its own
 - Would need to be accompanied by dramatic design changes, like road diets
 - Wide streets encourage car speeding, particularly during uncongested times
 - Speeding is the most common cause of KSI crashes



Information and Questions

- Questions?
- Website: www.bart.gov/safetrips
 - Main page
 - Get involved (Comments, surveys, and project sign up)
 - HIN map/dashboard (coming soon)
 - Open house (early 2025)
- Kamala Parks, Project Manager: kparks2@bart.gov
- Seung-Yen Hong, Deputy Project Manager: seung-yen.hong@bart.gov