

# Advancing Accessible Autonomous Mobility



Tim Haile, Executive Director  
Contra Costa Transportation Authority





## Who We Are

- Contra Costa, California
- Public agency formed by voters to manage transportation sales tax program and transportation planning efforts.
- Responsible for maintaining and improving mobility throughout the county by delivering critical transportation infrastructure projects.
- Managing entity of autonomous vehicle (AV) testing site: GoMentum Station.

# GoMentum Station

A world-class autonomous vehicle testing and research facility owned and operated by CCTA. By bringing together research, testing, and deployment, GoMentum Station accelerates innovation while **improving transportation safety and efficiency.**





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# GLYDWAYS

# SAV Testing on Public and Private Roadways

First to test on public roadways in California



# PRESTO Autonomous Shuttle Pilots

Bishop Ranch | Rossmoor | Martinez





# Workforce Training Overview



1

## Online Course

Roles & responsibilities and dive deep into the specifics of safe driving.



2

## In-vehicle Operations Training

GoMentum Station closed-course in-vehicle training. Submission of drivers license to the CA DMV.



3

## Communication, Accessibility, Incident Response Protocols



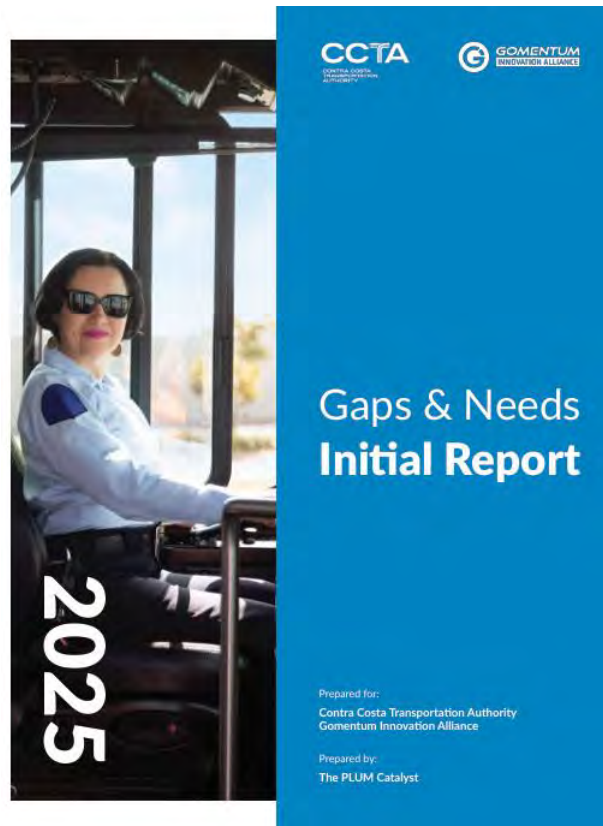
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## CA DMV Approval

Approval of an AV test operator under May Mobility's California DMV AV Testing Permit

# Workforce and Skill Development

CCTA aims to prepare the current workforce with the skills and knowledge necessary to design, develop, test, and maintain CAV systems and the infrastructure with which they interact



# Regulatory Framework



Federal safety performance standards and crash reporting requirements



## California DMV

State AV testing and deployment permit requirements



## USDOT / FTA

Transit integration guidelines and accessibility standards

## AV Transit Vehicles

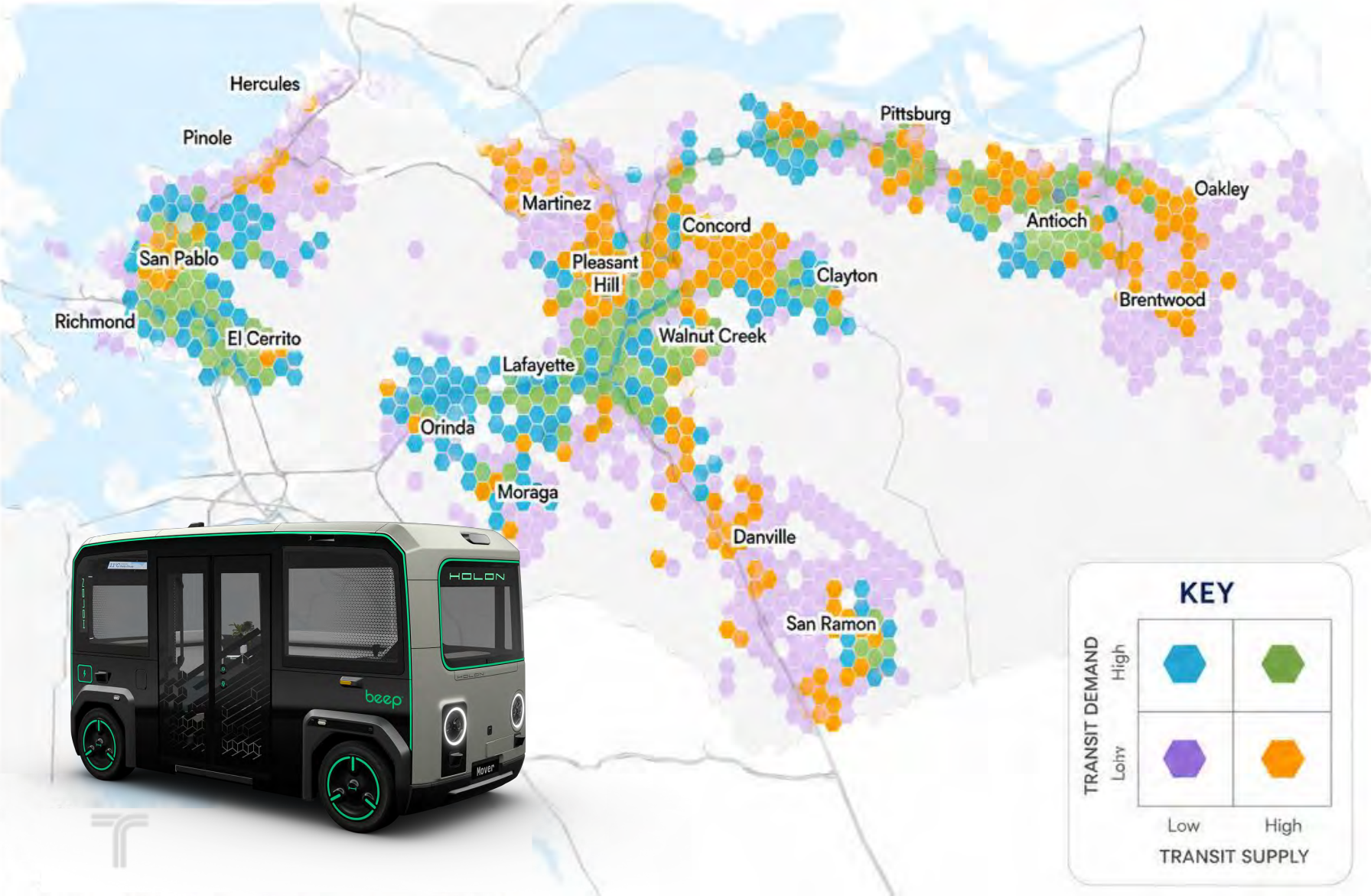
The regulations open the door for larger AVs in freight and transit, including AV transit vehicles up to 14,001 lbs GVWR operated by public entities or universities, while adding stronger safety, emergency response, data reporting, and enforcement requirements.

## Emergency Response

The regulations strengthen emergency response coordination by allowing emergency response officials to establish emergency geofenced zones and requiring AVs to safely exit affected areas.

# From Pilot to Public Use

Scalable, Equitable, and Connected Transit Solutions for Contra Costa



## Targeting opportunities where transit is needed most.



### Expand access and coverage

Reach more communities and destinations that are difficult to serve with traditional transit.



### Close first/last-mile gaps

Improve connections to BART, bus, jobs, schools, medical appointments and daily needs.



### Improve the customer experience

Deliver more flexible, reliable and convenient transportation options.



### Strengthen existing transit

Feed more riders into the broader transit system—not replace it.



### Advance safe, accessible and community-focused mobility

Ensure innovation delivers real public benefit.

# Emergency Management in an Autonomous Future

## 1. Incident & V2N Alert



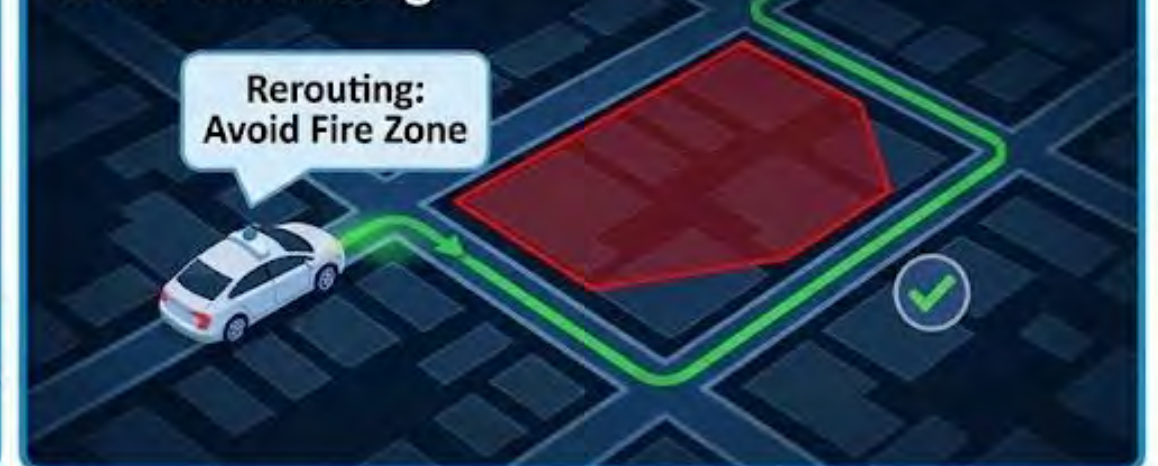
## 2. TMC Cloud Processing



## 3. Fleet Notification



## 4. AV Rerouting



Oh, and we  
have a podcast:

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# On the Go



with Tim Haile  
A CCTA Podcast

The graphic features a man with a beard and glasses riding a blue bicycle. The background is a stylized cityscape with various elements like a bus, a car, a drone, and a blimp, suggesting a busy urban environment. The text 'On the Go' is at the top in a blue, sans-serif font. Below the illustration, it says 'with Tim Haile' and 'A CCTA Podcast' in a similar font.



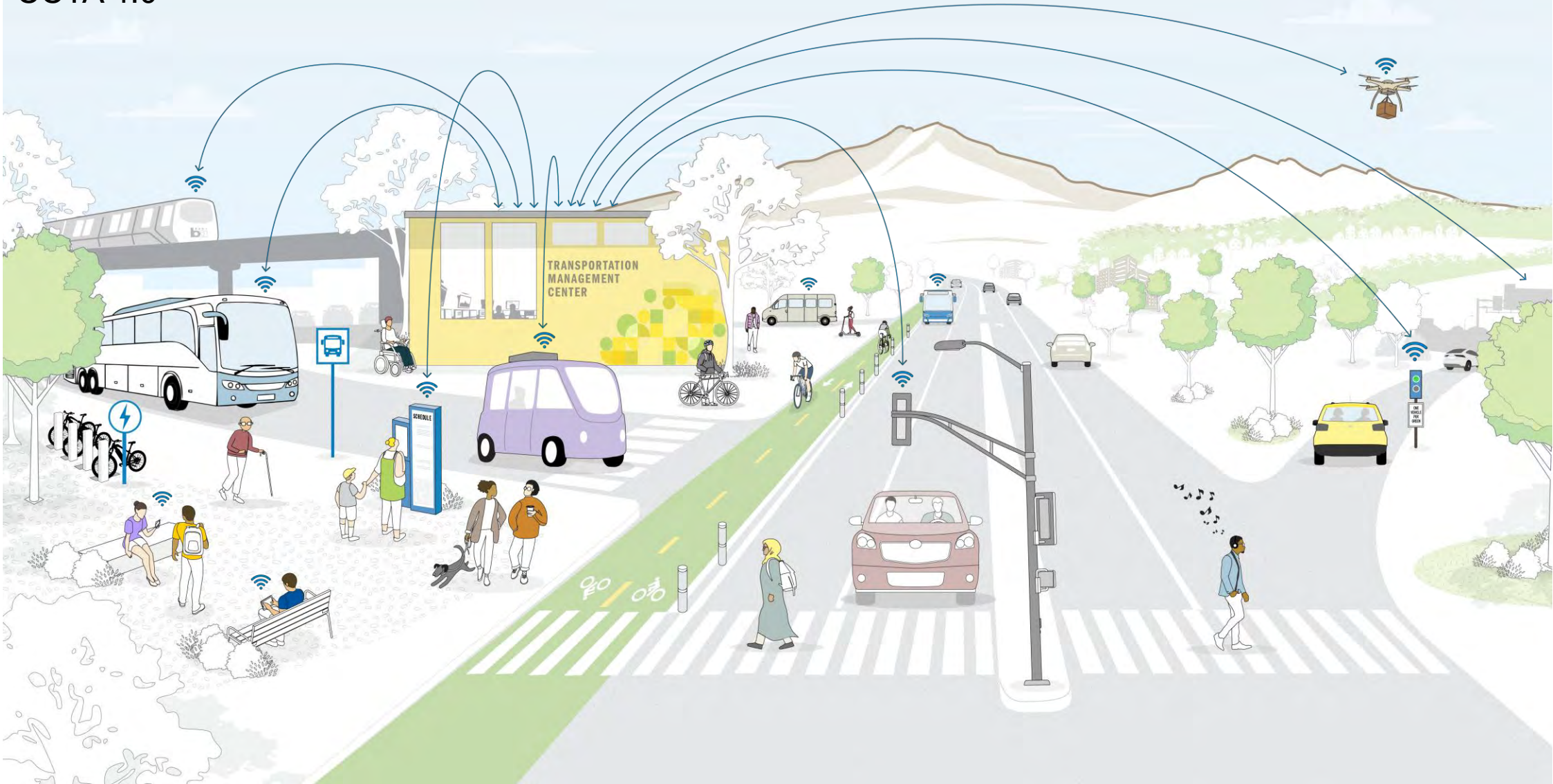
**CONTRA COSTA  
TRANSPORTATION  
AUTHORITY**

**Thank you!**

**Tim Haile**  
**Executive Director**  
**[thaile@ccta.ca.gov](mailto:thaile@ccta.ca.gov)**



CCTA 4.0

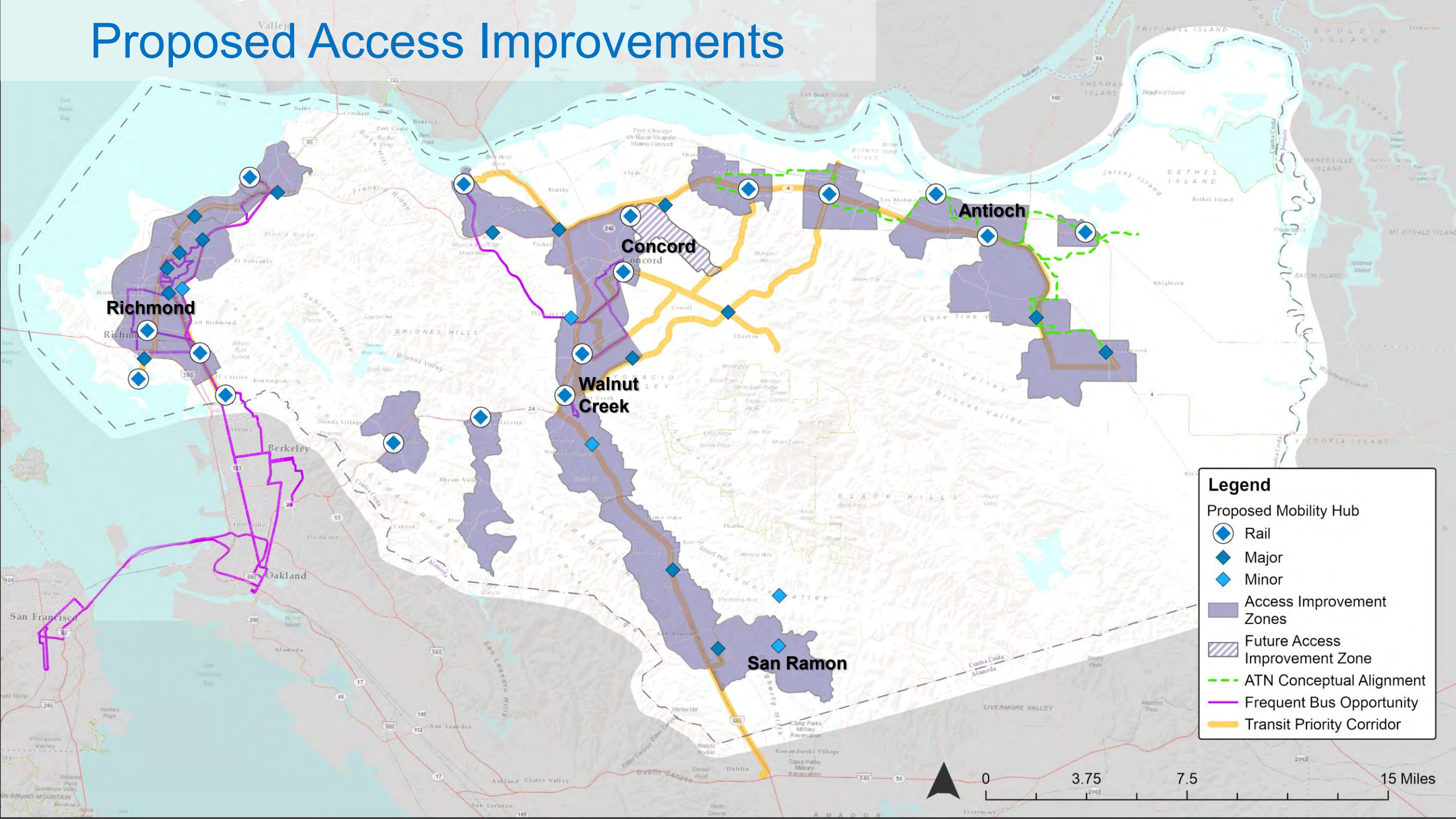


# Next Generation Shared Mobility



- Learning how to **integrate into infrastructure and public transportation system**
- Better understanding applicable use cases to **improve customer experience**
- Leveraging **learnings from Presto shuttle pilots** and uses cases to find new Level 4 solution
- Need an **automotive-grade** public transit vehicle with the leading **Level 4 autonomous drive** technology
- Require **remote monitoring** to ensure passenger safety and continuity of service
- Comply with **ADA, FMVSS and Buy America requirements** to scale with public and private services
- Explore **new business models** to provide cost-effective service

# Proposed Access Improvements



**Legend**

- Proposed Mobility Hub
  - Rail (Blue diamond)
  - Major (Red diamond)
  - Minor (Red diamond)
- Access Improvement Zones (Purple shaded area)
- Future Access Improvement Zone (Hatched purple area)
- ATN Conceptual Alignment (Green dashed line)
- Frequent Bus Opportunity (Red line)
- Transit Priority Corridor (Yellow line)

# Building the Workforce of the Future

## Pathways and training programs for local operators:



Safety Attendants



Site Managers



Technicians



Ambassadors



Tele-Assist Operators

CCTA's PRESTO Martinez project provided the opportunity to engage in workforce development in a new way.

