

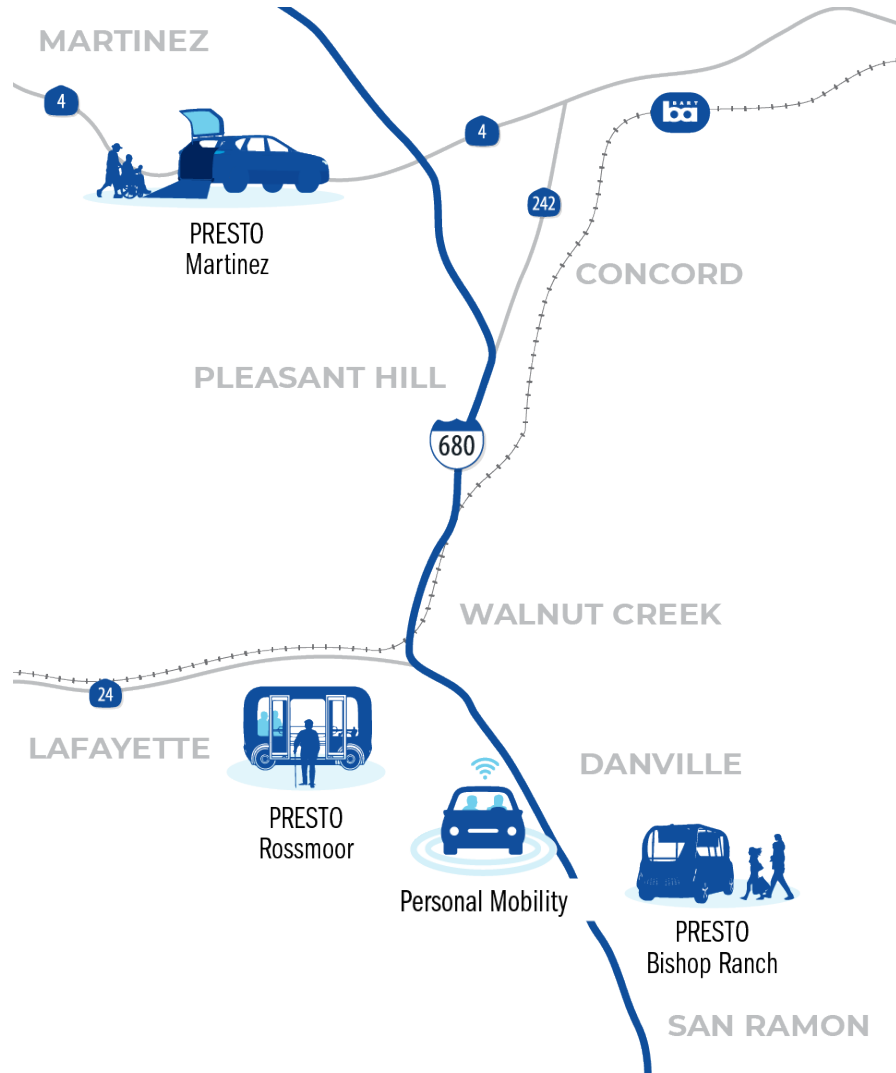
Innovate 680 Automated Driving Systems (ADS) Project Update/Use of Fund Exchange Reserve



Autonomous Vehicle Pilots



Autonomous Vehicle Pilots



- Four pilots are planned as part of the INNOVATE 680 initiative
- **Three ADS pilots** planned at Rossmore, Martinez and I-680/Bishop Ranch in San Ramon
- Pilots will provide more transportation options, expanding opportunities for community members

Benefits of PRESTO



IMPROVE ACCESS

Increasing connectivity and accessibility.



SUPPORT WELL-BEING

Promoting better health by improving access to medical and other services.



ENHANCE SAFETY

Increasing safety on our roads and freeways.



FOSTER SUSTAINABILITY

Helping the environment by using zero-emission vehicles.

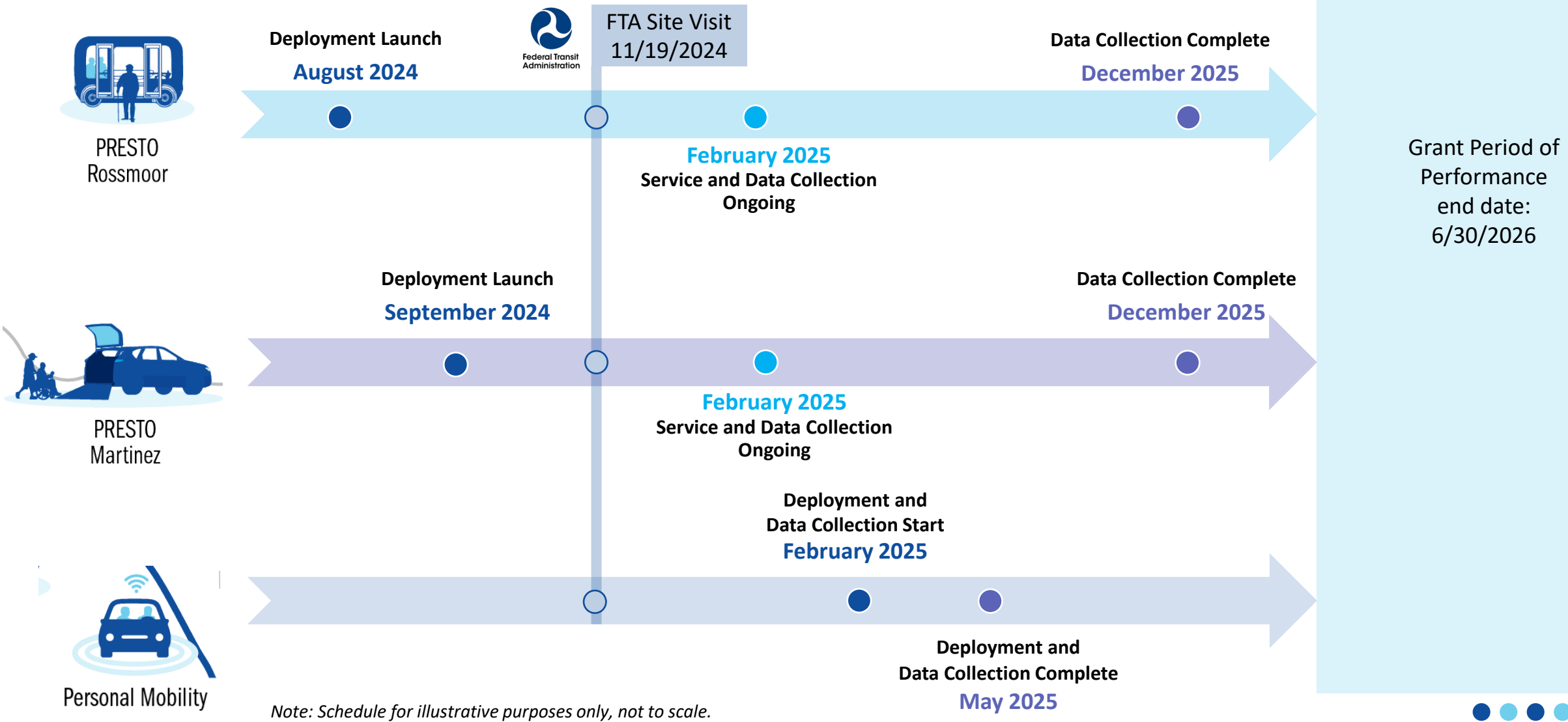
PRESTO Shuttles

Meet CCTA's slow-speed, self-driving, shared shuttles!

- First public shared autonomous vehicle pilot in the Bay Area
- PRESTO Bishop Ranch launched in April 2023
 - **More than 2,147 passengers** since launch
- PRESTO Rossmoor launched in July 2024
 - **More than 889 passengers** since launch
- PRESTO Martinez launched in September 2024
 - **More than 191 passengers** since launch

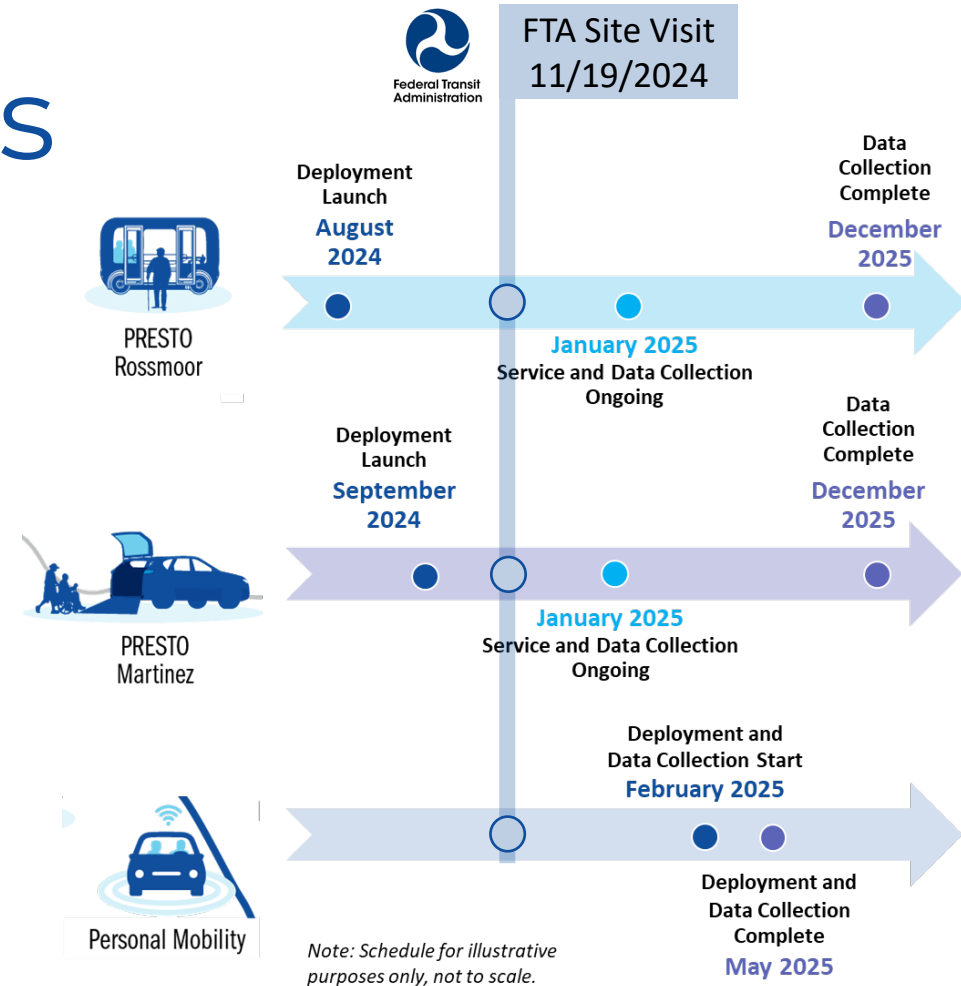


ADS Program Status



ADS Program Status

- FTA representatives made site visits to each of the **three ADS deployment** in Rossmoor, Martinez and I-680/Bishop Ranch in San Ramon.
- FTA pleased with the deployments.
- CCTA requested an 18-month, no-cost extension to the period of performance to allow sufficient time for usable data collection.
- FTA approved the no-cost time extension, extending period of performance from 1/31/25 to 6/30/2026.



Grant end date now 6/30/2026



Rossmoor Senior Community Shuttles

Walnut Creek, CA



Accomplishments

- **Adaptability and Innovation:** Devised an alternative method for data collection using an advanced system with four cameras, an Onboard Unit, and cellular transmission capabilities after receiving incorrect GTFS data.
- **Rigorous Testing and Validation:** The newly developed data collection system underwent thorough testing and validation before receiving approval for deployment.
- **Comprehensive Solutions to overcome challenges:** In addition to developing a robust data collection system, the team resolved mechanical and technical issues with the SAV to ensure steady and reliable service.



PRESTO Rossmoor

PILOT DETAILS

- Pilot began operations for residents in late **July**
- **Media Day** held August 1, 2024
- Operates Monday to Friday from **7am** to **5pm**
- **Data Collection on-going** through December 31, 2025

[Rossmoor - Ride PRESTO](#)



PRESTO Rossmoor

DATA COLLECTION

- GPS
- Velocity
- Acceleration
- Detected Objects
- Coordinates of Detected Objects

[Rossmoor - Ride PRESTO](#)





County Hospital Microtransit

Martinez, CA

Accomplishments

- **Resilience and Adaptability:** Overcame resource limitations and pandemic challenges with innovative solutions and solidified public transit partnerships with Union support.
- **Vendor Transition:** Secured a contract with May Mobility for advanced AV technology, ensuring reliable deployment.
- **Collaborative Efforts:** Negotiated a three-way agreement with CCTA, County Connection, and May Mobility, leading to a successful launch in September 2024.
- **Workforce Development:** Facilitated pathways and in-vehicle training programs for local operators



PRESTO Martinez

PILOT DETAILS

- Pilot began **September 2024**
- **Preview celebration** held September 12, 2024
- Operates Monday to Friday from **6:00pm to 9:30pm**
- **Data Collection on-going** through December 31, 2025

[Martinez - Ride PRESTO](#)



YOU'RE INVITED!

PRESTO Martinez Preview Celebration

September 12, 2024

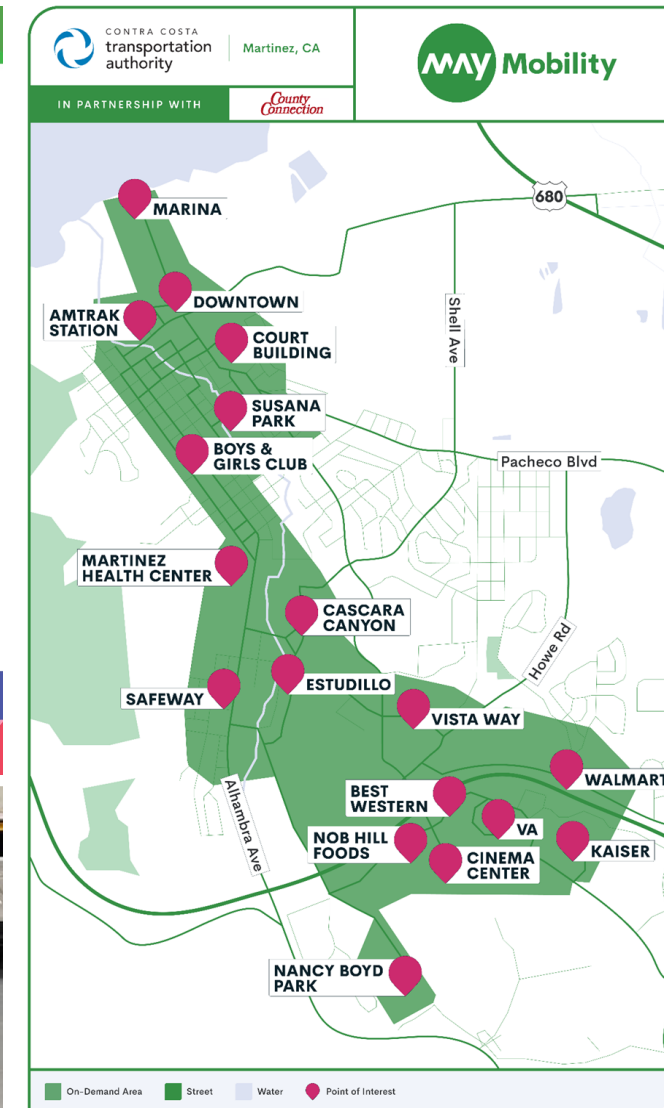
PRESTO
Celebrate the launch of autonomous shuttles in Martinez.

RIDE INTO THE FUTURE
An innovative accessible transportation option has arrived in Martinez. The Contra Costa Transportation Authority (CCTA) is launching our newest autonomous vehicle pilot, connecting riders to stops throughout the city, including County Hospital and other medical facilities.

ENGAGE & EXPLORE
Join us for the launch celebration featuring guest speakers, refreshments, and a chance to ride the new shuttle! Come give the future of transportation a spin.

Join Us!
PRESTO Martinez Preview Celebration
Thursday, September 12, 2024
Plaza Ygnacio, Henrietta Street & Alhambra Avenue, Martinez
10-11am: Remarks by speakers
11-12pm: Refreshments and demonstration rides

Logos: Contra Costa Transportation Authority, MAY Mobility, Contra Costa Health, County Connection



PRESTO Martinez

DATA COLLECTION

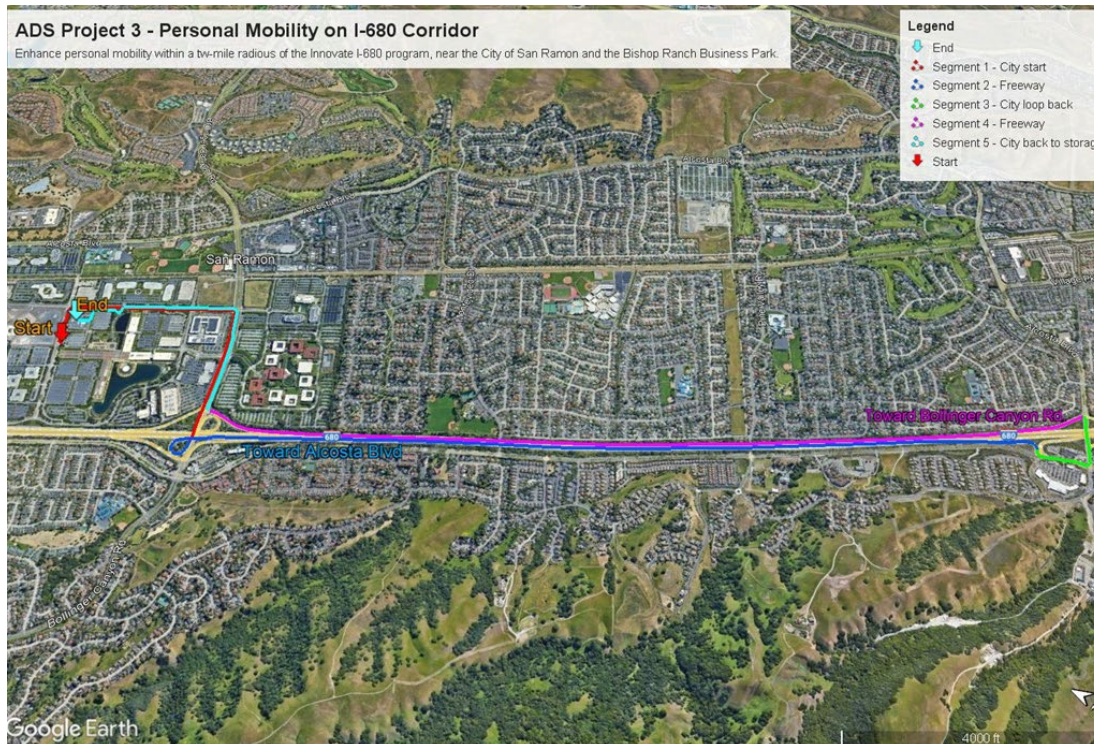
- GPS
- Vehicle dimensions; including location of front and rear end of vehicle
- Steering commands
- Acceleration/deceleration
- Speed
- Braking Commands
- Heading/turn angle of AV
- Headings of surrounding vehicles and vehicles at intersections
- Velocity of AV and other vehicles
- Traffic signage and lane marking detected
- Lane position of AV and other vehicles
- AV response time
- Signal Phase and Timing (SPaT) and map information
- Location, heading, and velocity of cyclists and pedestrians
- Other detected objects



[Martinez - Ride PRESTO](#)

3

ADS: Project 3 Personal Mobility on I-680



- A Level 4 AV will navigate public streets, handle intersections with traffic lights, and perform complex maneuvers such as unprotected left turns
- 5 high volume intersections around Bishop Ranch and continue along a 2-mile stretch of the I-680 freeway south of San Ramon and adjacent arterials
- Showcase decision-making capabilities of ADS at critical junctions when infrastructure data is available

Driving miles: 500 [10 days, ~2.5 hours/day]

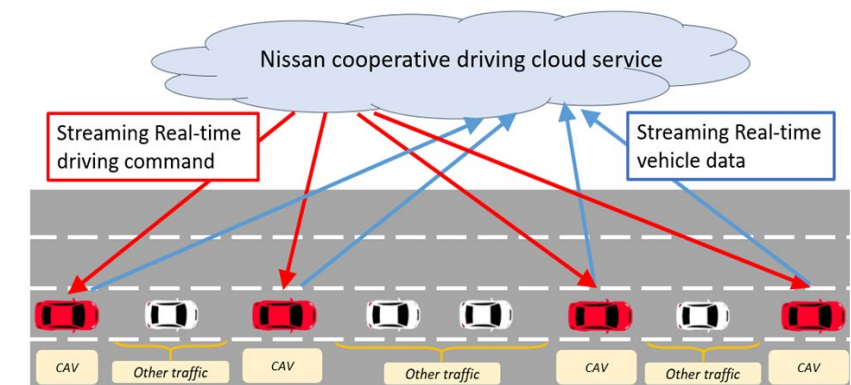
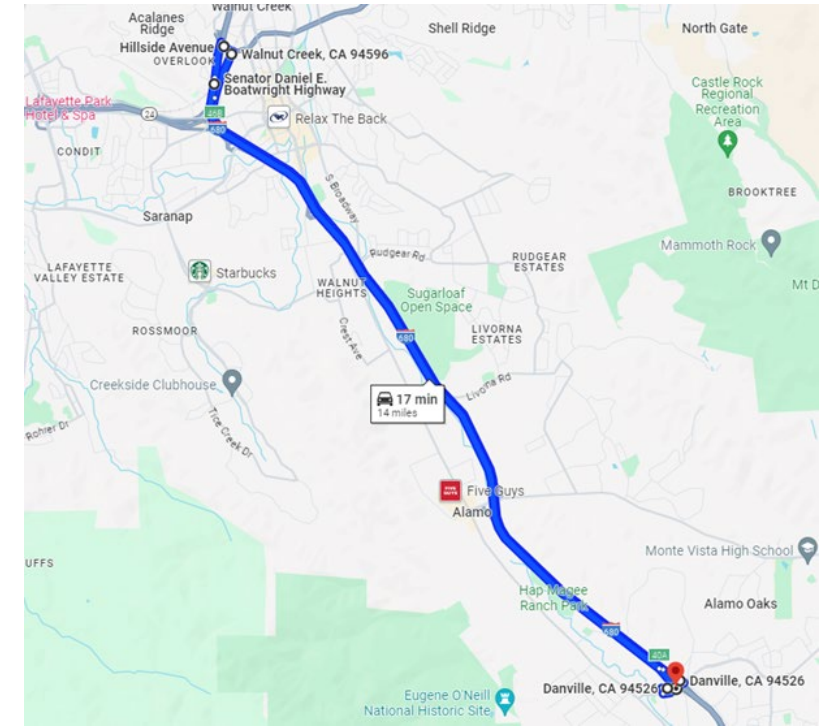
Date/Time: weekdays between 10 am and 5 pm; daylight

Vehicle type: Nissan Research Vehicles Prototype Level 4

Data Collection Method: MQTT Broker, csv/ROSBAG

ADS: Project 3 – CCM Component

- Collect data developing safety performance measures using a cloud-based centralized AI system, and analyze and evaluate the AV role in alleviating highway shockwaves
- Prepare corridor for widespread CAV deployment



ADS: Project 3

DATA COLLECTION

- GPS
- Vehicle dimensions; including location of front and rear end of vehicle
- Steering commands
- Acceleration/deceleration
- Speed
- Braking Commands
- Heading/turn angle of AV
- Headings of surrounding vehicles and vehicles at intersections
- Velocity of AV and other vehicles
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Resolution 21-15-P (April 21, 2021)

➤ Fund Exchange Reserve Eligible Uses

- Provide matching funds for grants secured for Authority-managed projects
- Development of grant applications for Authority-managed and locally-sponsored Measure J projects
- Completion of studies and project initiation documents required to qualify for future grants
- Reimbursement of Measure J funds used to advance Authority-managed projects in the Allocation Plan through the Letter of No Prejudice process
- Other priorities identified by the Authority to address changing needs of Contra Costa County that may not qualify for Measure J, State or Federal funds.

➤ Requires Board Approval for use of FER funds



Approved Exchanges

Party/Project	Fund Source Exchanged	Amount Exchanged	Notes
City of San Ramon - IHT at Bollinger	STIP	9,200,000	Agreement No 555 (Dec 2020)
City of Orinda - Citywide Pavement	LPP-F	1,800,000	Agreement No 628 (Feb 2023)
Countywide - Smart Signals	LPP-F	2,851,000	Reso. 23-10-P, 23-34-P, 24-56-P (Nov 2024)
Town of Moraga - St Mary's Safety Imp	STIP	536,000	Agreement No 661 (Sept 2023)

\$14,387,000

FER Commitments

			Contract		
No	Project	Reso#	No.	Contractor	FER Amount
1	ADS	21-37-P	560	AMG	105,000
2	ADS	21-36-P	568	Path	100,000
3	ADS	21-16-P	563	Nissan	514,000
4	MOD	22-23-P	591	Beep	400,000
5	MOD	23-45-P	591	Beep	713,420
6	ADS	23-46-P	589	Beep	100,675
7	GMS	24-09-P	GMS.006	Next Gen	1,000,000
8	GMS	24-21-P	GMS.005	AAA	1,000,000
9	I-680/SR4 (6001)	24-25-P	505	BWI	5,750,000
10	GoMentum Expansion	24-44-P	699	AMG (IDIADA, Nossman)	180,000
	GoMentum Expansion	24-44-P	710	EY	120,000
11	MOD	24-45-P	701	Excelsior Technologies	150,000
12	ADS	24-53-P	589	Beep	183,200
13	MOD	24-54-P	591	Beep	443,392
14	MOD	24-65-P	547	BART	550,000
15	ADS	25-06-P	568	UC Berkeley	191,000
	ADS	25-06-P	574	Telegra	480,000
	ADS	25-06-P	632	Heex	66,000
	ADS	25-06-P	654	May Mobility	842,257
				Total	12,888,944
	Remaining				1,498,056



Questions and Comments