



Shared Autonomous Vehicles Update LAVTA Board

Arya Rohani February 6, 2017







AV Level Definitions

- At SAE Level 0, the human driver does everything;
- At SAE Level 1, an automated system on the vehicle can sometimes assist the human driver conduct some parts of the driving task;
- At SAE Level 2, an automated system on the vehicle can actually conduct some parts
 of the driving task, while the human continues to monitor the driving environment and
 performs the rest of the driving task;
- At SAE Level 3, an automated system can both actually conduct some parts of the driving task and monitor the driving environment in some instances, but the human driver must be ready to take back control when the automated system requests;
- At SAE Level 4, an automated system can conduct the driving task and monitor the driving environment, and the human need not take back control, but the automated system can operate only in certain environments and under certain conditions; and
- At SAE Level 5, the automated system can perform all driving tasks, under all conditions that a human driver could perform them.

USDOT AV Policy Guidance





Keeping Contra Costa Moving





GoMentumstation.net







Keeping Contra Costa Moving





Honda AV Testing

Keeping Contra Costa Moving





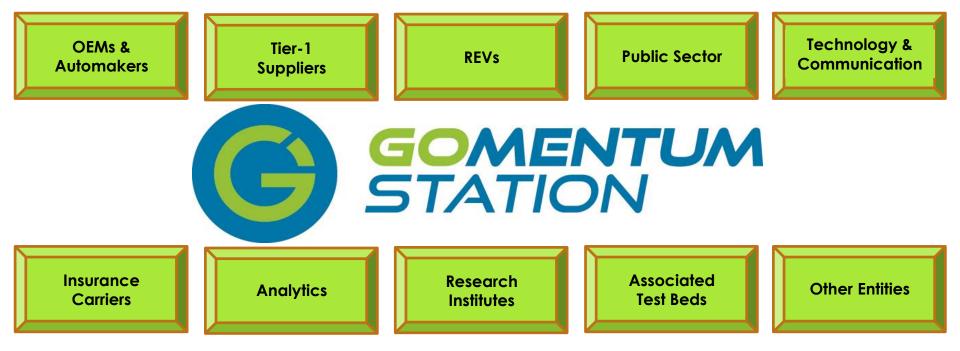
Honda AV Testing

Keeping Contra Costa Moving



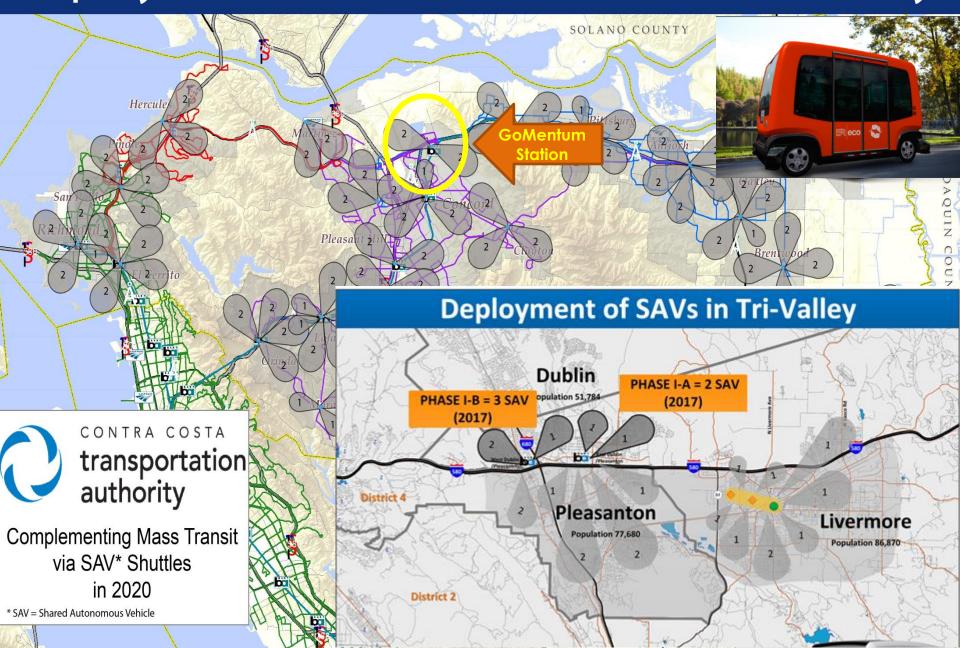
GoMentum Station

Partner Ecosystem





Deployment of SAVs in Contra Costa County



Benefits of Implementing First Mile/Last Mile Shared Autonomous Vehicles



- Create Transit Jobs
- Increase Fixed Routes Transit Ridership
- Mode Shift from Single Occupant Vehicle to Transit
- Increase Farebox Recovery Ratio for Transit Operators
- Improve Trip Reliability, Safety and Environment



₽R eco

23.7% increase due to expansion of transit reach and serving unmet needs





Estimated new transit jobs created as a result of the Contra Costa and Eastern Alameda Counties SAV Network implementation due to ridership and fleet size increase.



90% SAFETY Improvement

Due to highly redundant sensors, systems and intelligent software

Program Management

Logistics/Operations

- Branding
- Storage
- Power requirements
- Special events
- Ops and maintenance training
- SAV testing
- Insurance requirements

Funding/Regulatory/Legal

- Execute BA-AQMD funding agreement
- LAVTA funding status
- Regulatory:
 - NHTSA
 - DMV
- Legislative
 - AB 1592





