



San Mateo County Automated Vehicles (AV) Strategic Plan

C/CAG Technical Advisory Committee

August 17, 2023









Project Goals



- Identify current local, statewide, and federal policy and regulatory frameworks for AV
- Establish a shared vision for AV deployment that aligns with local, state and federal objectives
- Identify opportunities and challenges for AV deployment and pilot projects
- Prioritize next steps for implementing AV Strategic Plan initiatives

Levels of Automation

					
0	1	2	3	4	5
No Automation Zero autonomy, the driver performs all driving tasks.	Driver Assistance Vehicle is controlled by the driver, but some driving assist features may be included in the vehicle design.	Partial Automation Vehicle has combined automated functions, like acceleration and steering, but the driver must remain engaged with the driving task and monitor the environment at all times.	Conditional Automation Driver is necessary, but is not required to monitor the environment. The driver must be ready to take control of the vehicle at all times with notice.	High Automation The vehicle is capable of performing all driving functions under certain conditions. The driver may have the option to control the vehicle.	Full Automation The vehicle is capable of performing all driving functions under all conditions. The driver may have the option to control the vehicle.

Society of Automotive Engineers (SAE) Automation Levels Full Automation

AV Applications

PERSONAL VEHICLES



Automated cars may improve safety, reduce congestion, and provide new mobility options for individuals who are unable to drive.

RIDE HAILING VEHICLES



AV shuttles and taxis to supplement public transport and provide first and last-mile connections.

TRANSIT



Driver assistance technologies for mass transit and autonomous first/last mile shuttles.

FREIGHT



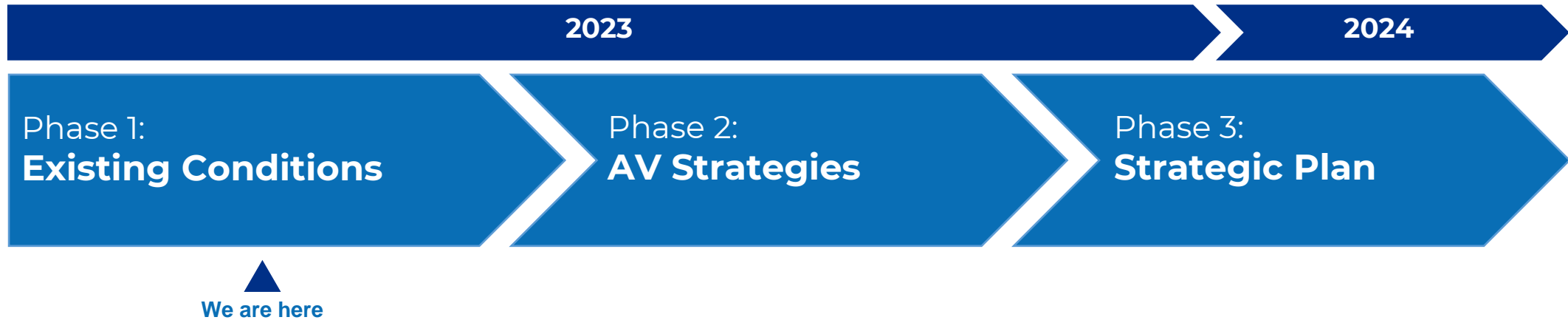
Automated trucking and package delivery aimed at increasing supply chain efficiency, improving safety, and reducing costs.

Key Project Benefits



- Help transportation agencies and the public plan and prepare for future AV deployment
- Develop a cohesive strategy for the implementation of AV pilots and programs
- Position the county to strategically compete for funding and economic development opportunities related to future AV programs

Project Timeline



- **Phase 1 (Summer 2023):** Identify the existing AV programs at local, state, and federal levels
- **Phase 2 (Fall 2023):** Develop a framework for AV pilot programs, projects and activities
- **Phase 3 (Winter 2023):** Prepare the draft San Mateo Countywide AV Strategic Plan

Existing Conditions Report



- Introduces the project and provides background on AV technology
- Reviews existing countywide plans, programs, and assets
- Reviews local, peer agency, state and federal AV policies and programs
- Provides inventory of existing AV providers
- Describes next steps, including possible focus areas for further consideration

Existing Conditions Report Findings



County Transportation Plans Reviewed



County Transportation Programs Reviewed



Key Findings

- ☐ SMCTA ACR/TDM Plan
- ☐ C/CAG ITS Strategic Plan
- ☐ Countywide Transportation Plan 2040
- ☐ Short Range Transit Plan

- ☐ C/CAG TDM Program
- ☐ C/CAG Smart Corridor
- ☐ C/CAG Intelligent Transit Signal Priority
- ☐ Towards an Autonomous Future in San Mateo County Virtual Workshop
- ☐ Roadway, Transit, Bike/Ped Networks

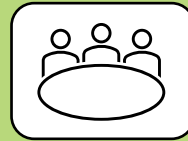
There have not yet been any official AV policies, programs, or deployments in the county, though some policies and plans reference AVs or could be leveraged to support AVs

Upcoming Engagements – August & September



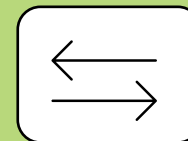
One-on-one Interviews*

- ☐ MTC
- ☐ CCTA
- ☐ DMV & CPUC
- ☐ CalTrans
- ☐ City of Burlingame
- ☐ Town of Hillsborough
- ☐ City of South San Francisco
- ☐ Nuro
- ☐ Beep
- ☐ Cruise



Roundtable Interview: SamTrans

- ☐ Discuss potential short-, medium- and long-term AV aspirations
- ☐ Identify opportunities and challenges
- ☐ Determine opportunities for agency collaboration

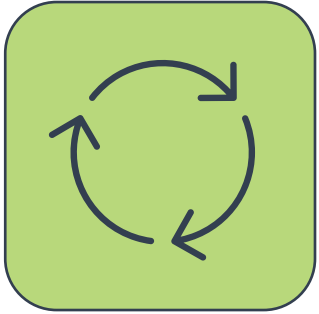


Peer Exchange: SFCTA & SFMTA

- ☐ Explore lessons learned through current AV pilot programs
- ☐ Discuss potential short-, medium- and long-term AV aspirations
- ☐ Identify opportunities and challenges

*Invited for interviews by project team

Project Advisory/TAC Role & Next Steps



- The C/CAG TAC is the primary advisory body for this project; will advise recommendations to the C/CAG Board
- The TAC will have three deliverables to review/advise at key milestones of the project:
 - **Meeting #1** – Today: Existing Conditions
 - Comments due: August 31st
 - **Meeting #2** – Fall 2023: AV Strategies
 - **Meeting #3** – Early 2024: Strategic Plan
- SMCTA & C/CAG will host a public workshop late fall 2023 to seek input and prioritize draft AV strategies

Questions/Feedback

Project Website/Factsheets/Draft Existing Conditions Report Available at:

<https://www.smcta.com/planning-projects/SMCAVPlan>

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