

San Mateo Countywide Automated Vehicles Strategic Plan

FACT SHEET

Automated Vehicles (AV) are rapidly emerging as a transformative technology with the potential to revolutionize various sectors of transportation. From personal vehicles to shuttles, transit, freight, delivery and more, automation will reshape mobility in San Mateo County. Recognizing this potential, the San Mateo County Transportation Authority (SMCTA) and City/County Association of Governments of San Mateo County (C/CAG) are working together to develop the San Mateo Countywide Automated Vehicles Strategic Plan.

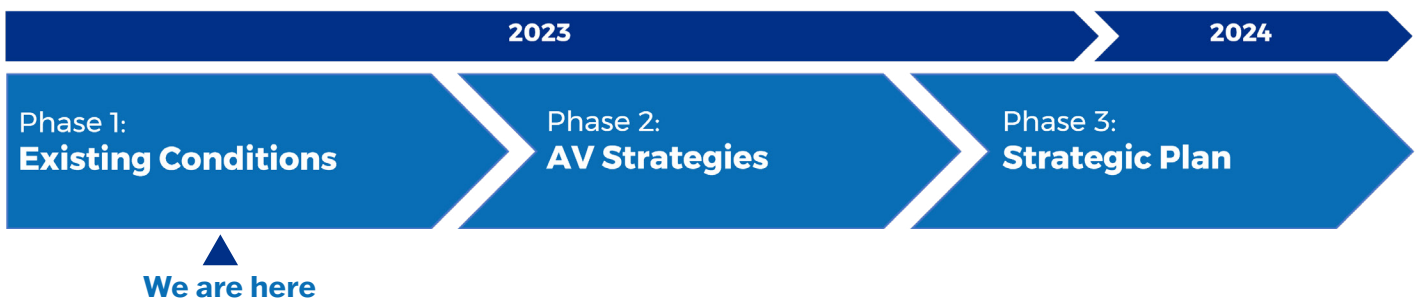
Project Scope

The SMCTA and C/CAG are co-sponsoring a Strategic Plan coupled with a five year action plan to prepare for the advent of AV in San Mateo County. The plan will include strategies and recommendations for the prioritization of AV pilots, projects, and activities that align with the federal, state, and local visions for AV deployment to improve connectivity and mobility.

Project Goals

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

Project Timeline



- Phase 1 (Summer 2023): Identify the existing AV programs at the county, state, and federal levels through research and conversation with stakeholders, and local and state agencies
- Phase 2 (Fall 2023): Using stakeholder and public feedback, develop a framework for AV pilot programs, projects, and activities that align with County policies, plans, and funding opportunities
- Phase 3 (Winter 2023): Prepare the draft San Mateo AV Strategy, incorporating the feedback received from the public, stakeholders, and agencies

Key Project Benefits

The AV Strategic Plan will:

- Help transportation agencies and the public in San Mateo County plan and prepare for future AV deployment
- Develop a cohesive strategy for the implementation of AV pilots and programs
- Set a vision for shared and connected AV infrastructure
- Position the county to strategically compete for funding and economic development opportunities related to future AV programs

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FAQ

What are AVs?

AVs perform the primary driving functions of vehicles (i.e. steering, acceleration, and braking) with varying degrees of human intervention. These systems can assist with sensing, communicating, monitoring, navigating, and decision-making, depending on the level of automation (illustrated below).

0	1	2	3	4	5
No Automation	Driver Assistance	Partial Automation	Conditional Automation	High Automation	Full Automation
Zero autonomy, the driver performs all driving tasks.	Vehicle is controlled by the driver, but some driving assist features may be included in the vehicle design.	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.	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.	The vehicle is capable of performing all driving functions under certain conditions. The driver may have the option to control the vehicle.	The vehicle is capable of performing all driving functions under all conditions. The driver may have the option to control the vehicle.




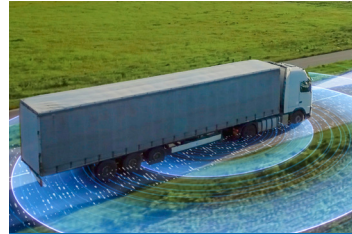
Society of Automotive Engineers (SAE) Automation Levels Full Automation

What are some of the impacts of AVs in San Mateo County?

AVs have the potential to impact traffic safety, highway and road congestion, efficiency and movement of people and goods, and even introduce transportation options for individuals who have physical limitations or disabilities.

What are some practical applications for AV?


There are several modes under the umbrella of AV including personal vehicles, ride hailing vehicles, transit, and freight.

PERSONAL VEHICLES	RIDE HAILING VEHICLES	TRANSIT	FREIGHT
			
Automated cars may improve safety, reduce congestion, and provide new mobility options for individuals who are unable to drive.	AV shuttles and taxis to supplement public transport and provide first and last-mile connections.	Driver assistance technologies for mass transit and autonomous first/last mile shuttles.	Automated trucking and package delivery aimed at increasing supply chain efficiency, improving safety, and reducing costs.

FOR MORE
INFORMATION

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