

San Mateo County Automated Vehicles (AV) Strategic Plan

C/CAG TAC Meeting

January 18, 2024



SAN MATEO COUNTY Transportation Authority



Project Refresh

Meeting Goals:

- Update you on the AV Strategic Plan progression since August 2023
- Understand your priorities as we begin to draft the AV Strategic Plan



Project Background

Workshop on Towards an Autonomous Future in San Mateo County on November 17, 2021

Identified Next Steps:

- > Develop a San Mateo Countywide AV Strategic Plan
- Organize an AV Task Force or Working Group
- Plan for and fund AV pilots



Project Timeline



Phase 1 (Summer 2023): Identify 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



What Research Have We Done?

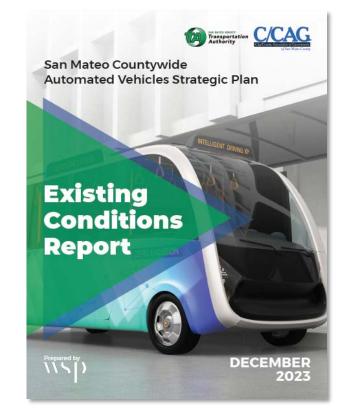
- Reviewed County Transportation Plans & Programs
- > Conducted One-on-One Interviews with Cities, Agencies and Private Sector AV Operators
- Conducted In-depth Discussions with Peer Agencies
- Published an Existing Conditions Report on project website
- Conducted a public AV Workshop on November 15



Existing Conditions Refresh

> AV testing is happening in San Mateo County

- CPUC has issued 30+ testing permits with safety driver in California
- Driverless not commercial operations (i.e. robo-taxis) are not yet approved in San Mateo County
- > This is the first county program or plan to address AVs
- > Learn from local, state, and federal AV policies and programs





Public Workshop Feedback Summary

What We Heard:

- Prioritize equity communities, people with disabilities and seniors for services such as shuttles and deliveries
- Participants are interested in safety and compatibility with various road users
 - Consider advanced driver assistance systems on buses
 - Consider public sector data sharing with AVs
- Fair geographical distribution of potential pilots or projects (e.g., coastal county areas versus the Bay side)





Strategic Plan Development





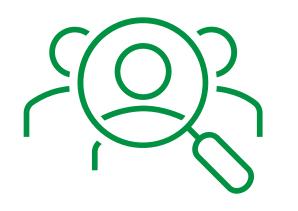


SMCTA and C/CAG will support strategic measures toward implementing automated vehicle technologies that promote equitable levels of access, safety, reliability, and sustainability in San Mateo County.

What is our ideal future?



Draft - Strategic Plan Goals



What are our objectives that will help us achieve our vision?



- Accessibility & Equity
- **Engagement**



Workforce Development

Safety



Support Local Agencies



Sustainability





Draft - Strategic Pillars



How are we thinking through our strategies?





Agency Readiness

Infrastructure Readiness



Public Outreach & Partnerships



Policy

Pilots & Testing



AV Strategy Prioritization Activity

Activity time! | What to Expect

- Share your feedback | share whether you believe each of the presented draft strategies are low, medium or high priority.
- ➤ Go with your gut | The may all be high priority for you.
- This is a first step | This activity will be fast-paced. At a future meeting, you will have the opportunity to provide more detailed feedback at our next meeting.
- Something on your mind? | Reach out to <u>ashiramizu@smcgov.org</u> to share your input.
 - Share new strategy ideas, refinements, or reasons to remove a strategy
 - > Talk through potential pilots for consideration
 - Learn more about the Strategic Plan

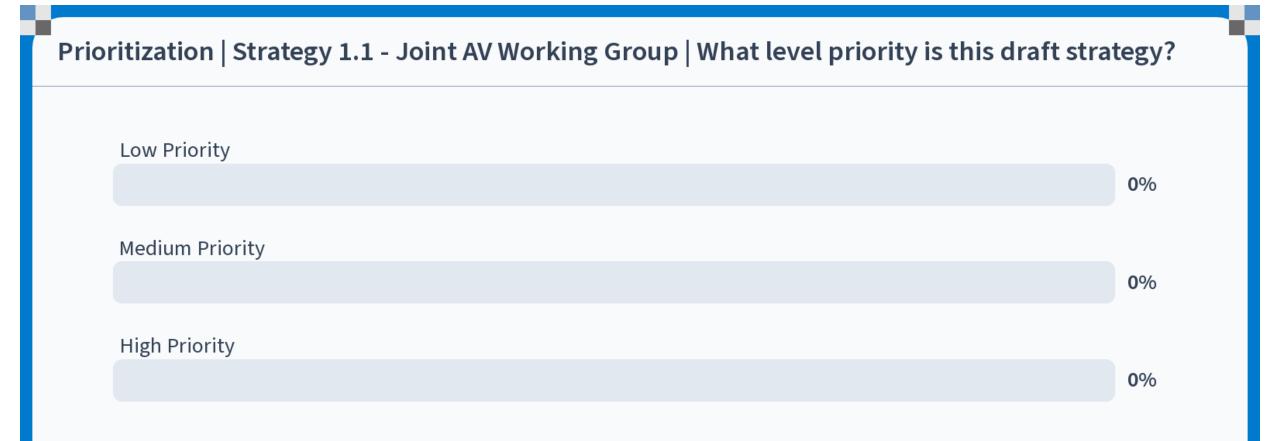


Pillar 1: Agency Readiness

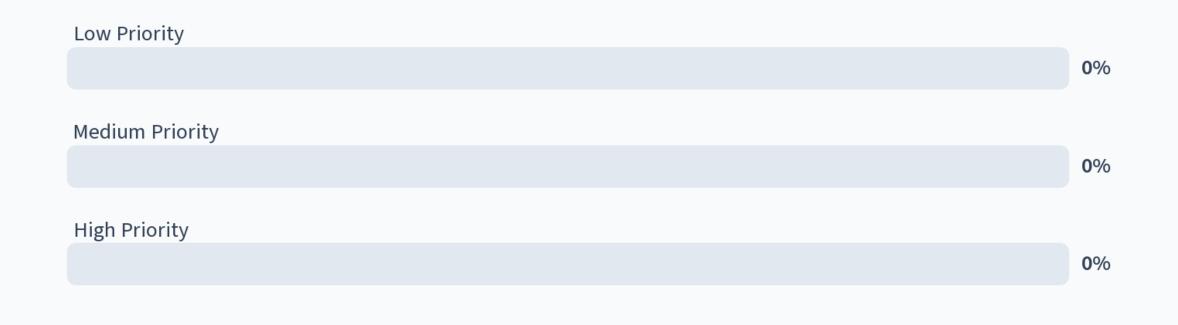
Agencies need to be resourced and ready to manage AV operations on public roadways.

Strategy
Strategy 1.1 – Joint AV Working Group
Strategy 1.2 – AV Outreach and Awareness Program for Agencies
Strategy 1.3 – Determine AV Staffing Needs
Strategy 1.4 – AV Training
Strategy 1.5 – Integrate AV into Planning Process





Prioritization | Strategy 1.2 - AV Outreach and Awareness Program for Agencies | What level priority is this draft strategy?



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Prioritization | Strategy 1.3 - Determine AV Staffing Needs | What level priority is this draft strategy? Low Priority 0% **Medium Priority** 0% **High Priority** 0%

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Prioritization | Strategy 1.5 - Integrate AV into Planning Process | What level priority is this draft strategy? Low Priority 0% **Medium Priority** 0% **High Priority** 0%

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Pillar 1: Agency Readiness

> Are there any additional strategies we should consider?

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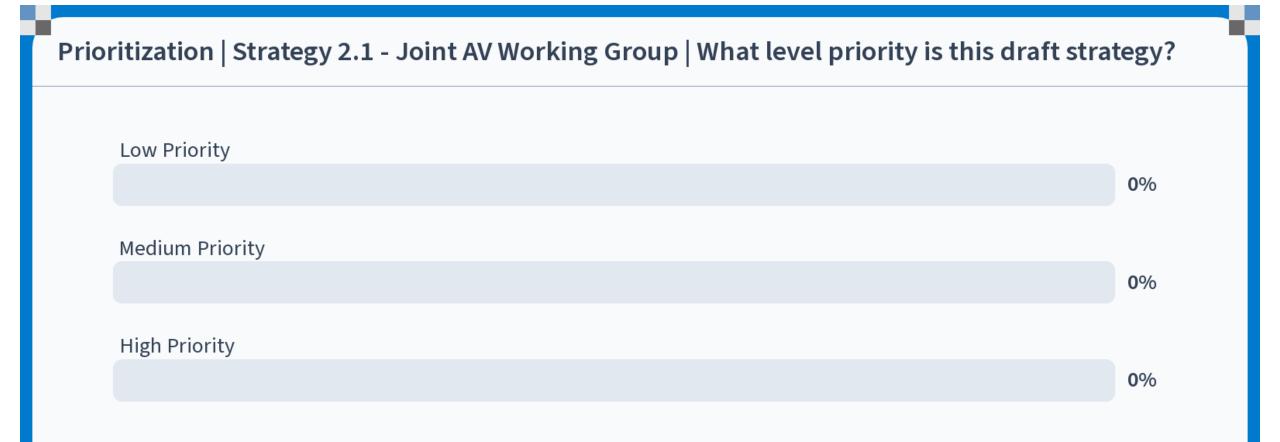
Pillar 2: Infrastructure Readiness

Investments into transportation infrastructure networks (both physical and digital) to support AVs operating on public roadways.

Strategy
Strategy 2.1 – Investigate AV needs for changes to physical infrastructure
Strategy 2.2 – Investigate AV needs for digital infrastructure
Strategy 2.3 – Infrastructure Assessment
Strategy 2.4 – Upgrade County Infrastructure to make it AV-ready





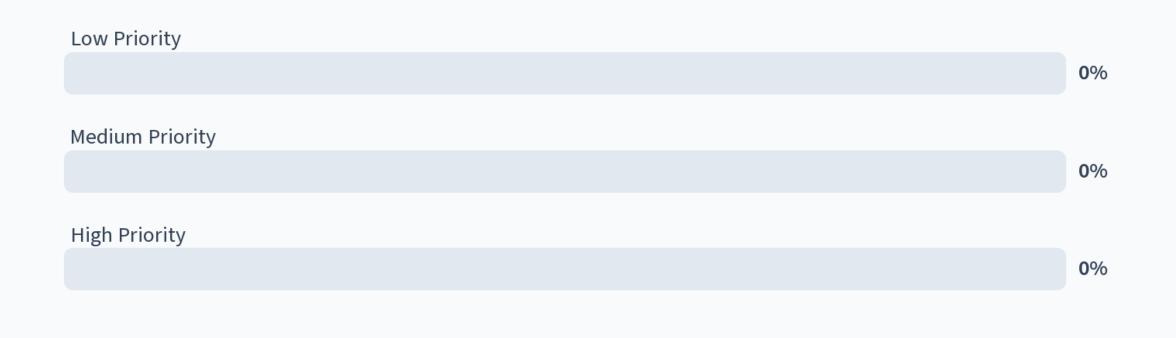


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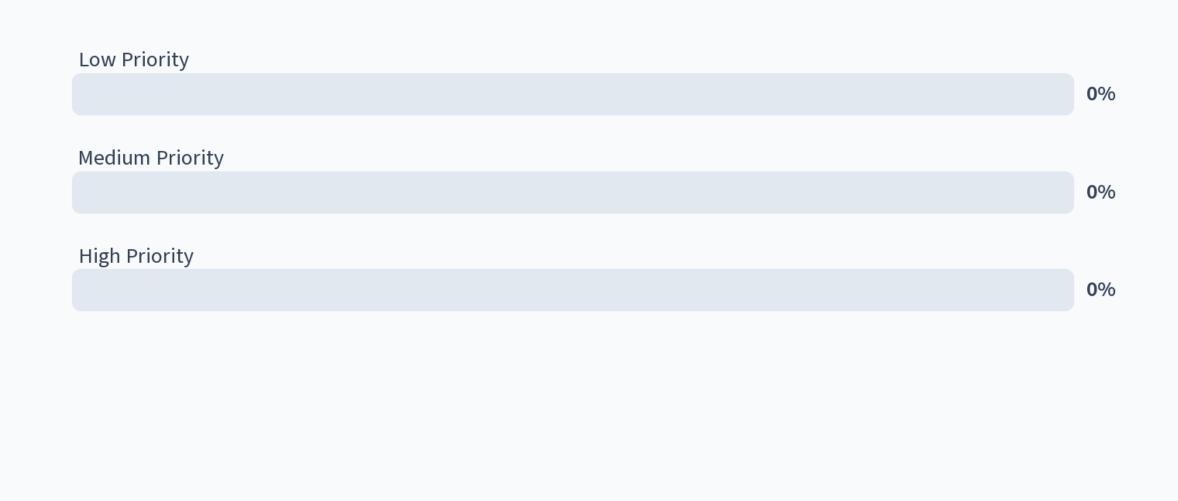
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Prioritization | Strategy 2.2 - Investigate AV Needs for digital Infrastructure | What level priority is this draft strategy?

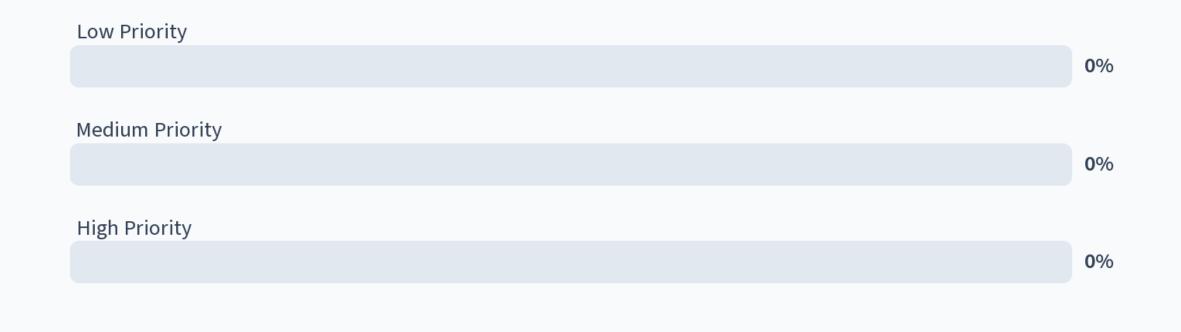


Prioritization | Strategy 2.3 - Infrastructure Assessment | What level priority is this draft strategy?



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Prioritization | Strategy 2.4 - Upgrade County Infrastructure to Make it AV-Ready | What level priority is this draft strategy?



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Pillar 2: Infrastructure Readiness

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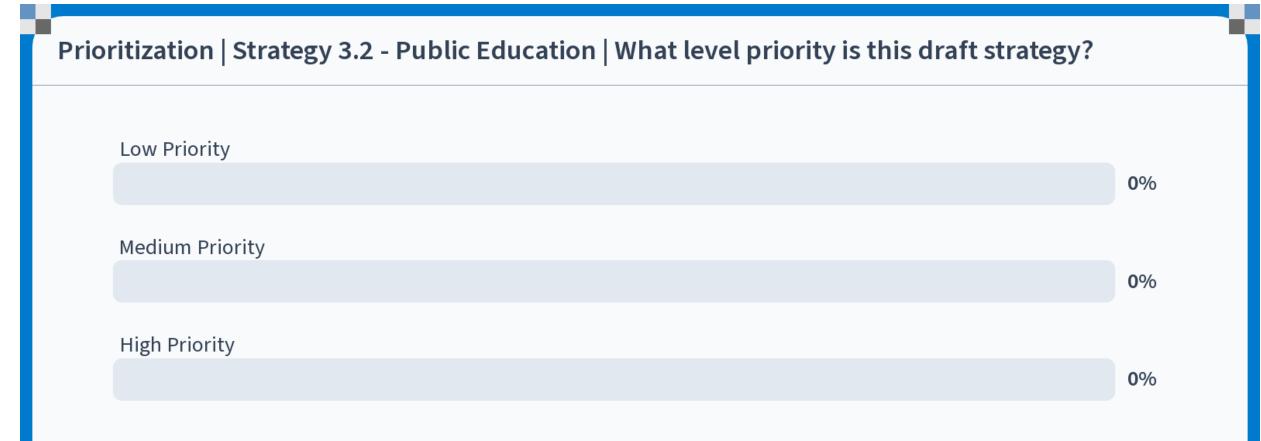
Pillar 3: Public Outreach and Partnerships

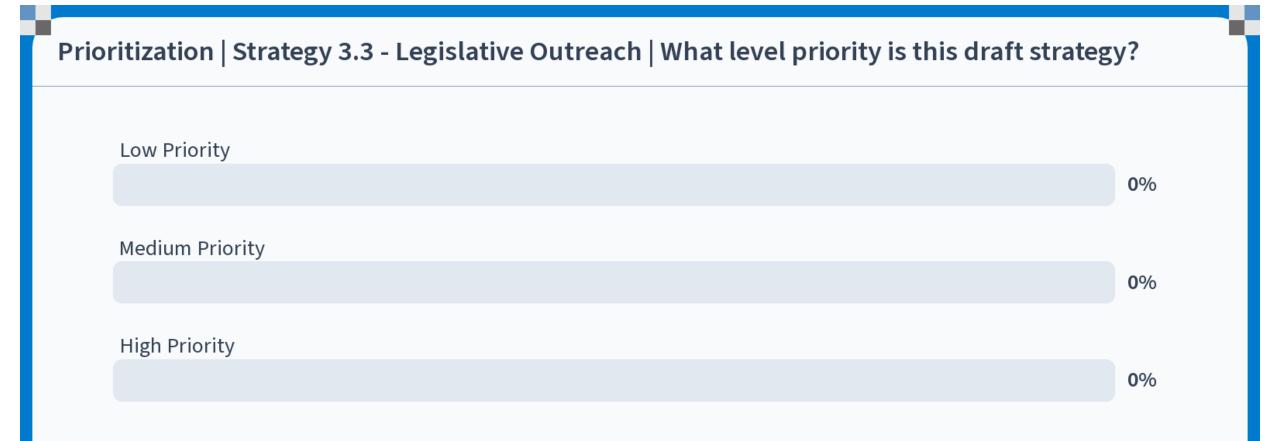
Increased awareness of the technology among the public, legislators, and local agencies can build trust and facilitate information sharing. There are also opportunities to leverage private sector investments.

Strategy
Strategy 3.1 – Industry Collaboration
Strategy 3.2 – Public Education
Strategy 3.3 – Legislative Outreach
Strategy 3.4 – Public Private Partnerships









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Prioritization | Strategy 3.4 - Public Private Partnership | What level priority is this draft strategy? Low Priority 0% **Medium Priority** 0% **High Priority** 0%

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Pillar 3: Public Outreach and Partnerships

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Pillar 4: Policy

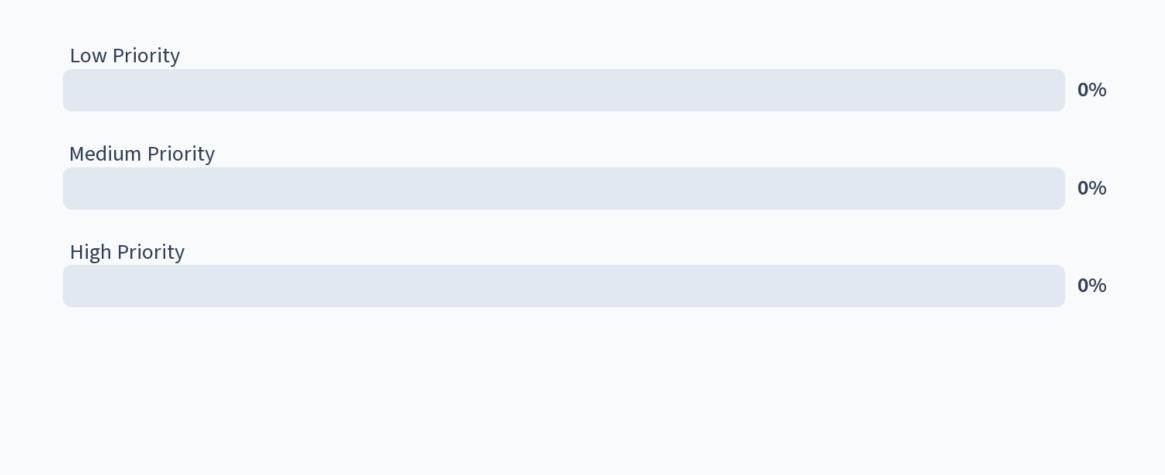
Policies should be consistent at the local, regional, and state level and they should align with federal AV policy (as it evolves).

Strategy
Strategy 4.1 – Support regional AV goals
Strategy 4.2 – Engage with State regulatory agencies
Strategy 4.3 – Establish a data sharing policy for AVs
Strategy 4.4 – Establish an equity policy for AVs
Strategy 4.5 – Incorporate AVs into county funding programs



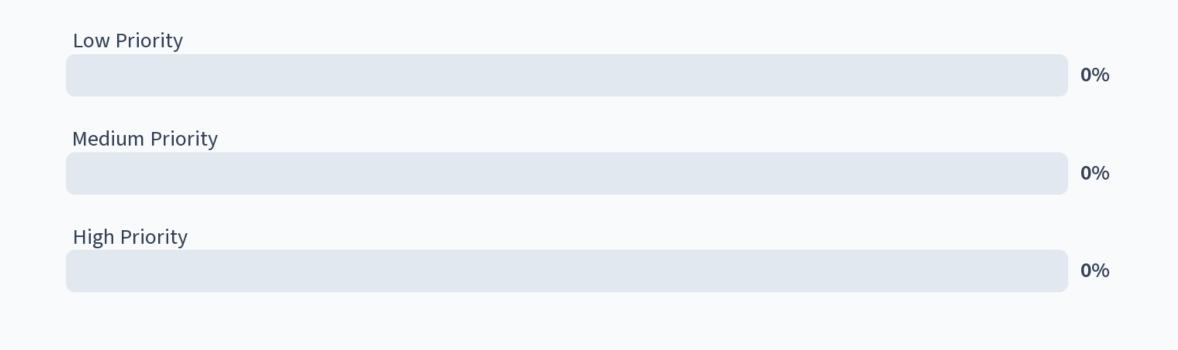


Prioritization | Strategy 4.1 - Support Regional AV Goals | What level priority is this draft strategy?



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Prioritization | Strategy 4.2 - Engage with State Regulatory Agencies | What level priority is this draft strategy?



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Prioritization | Strategy 4.3 - Infrastructure Assessment | What level priority is this draft strategy?



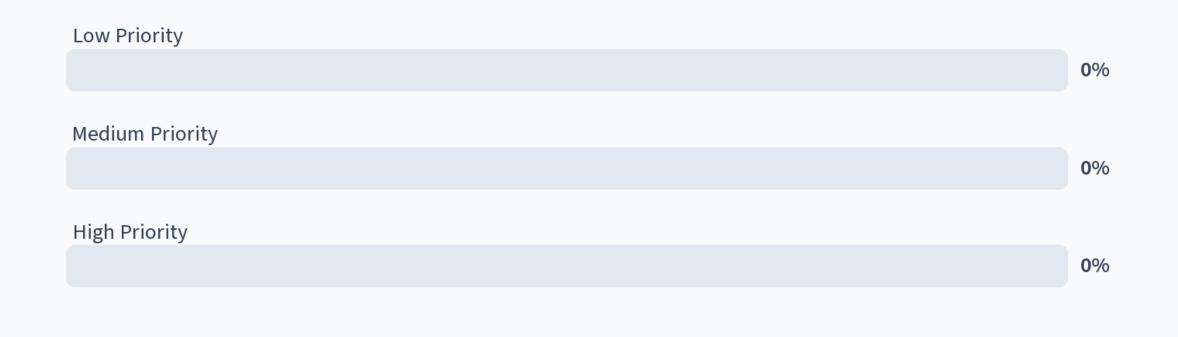
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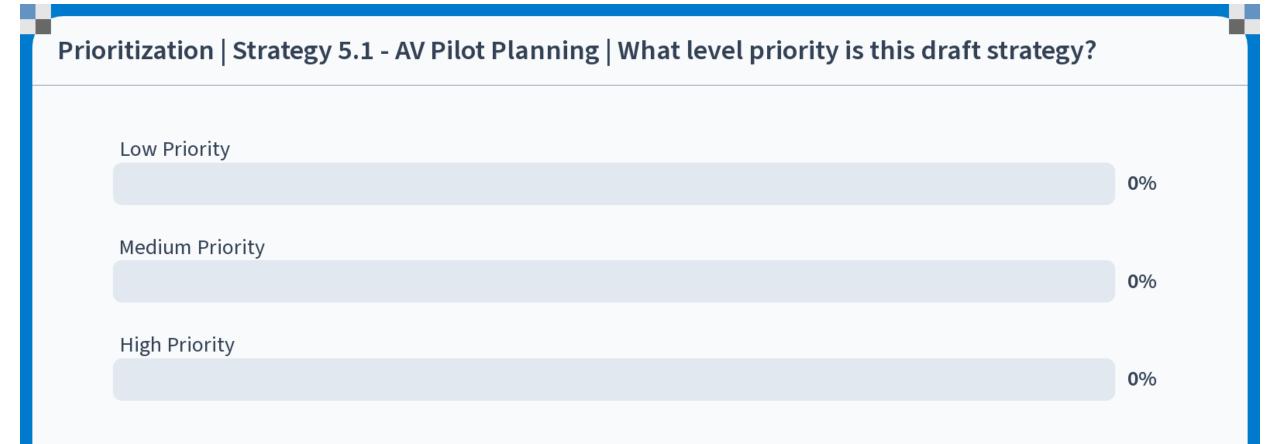


Pillar 5: Pilots and Testing

Testing and pilots of AV use cases will enable agencies to understand potential benefits and see what is needed to support them in the future, paving the way for further developments.

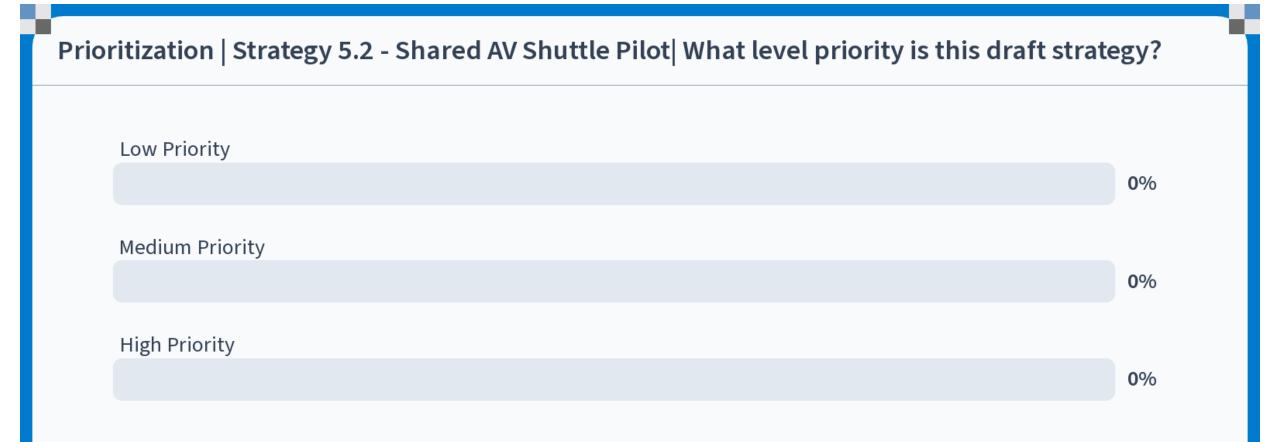
Strategy	Example Applications
Strategy 5.1 – AV Pilot Planning	See Below
Strategy 5.2 – Shared AV shuttle pilot	 Millbrae to Broadway Caltrain Station along California Drive Shuttles to connect BART Stations to Caltrain Stations Shuttle service to Canada Community College, Sequoia Hospital, Bair Island Neighborhood in Redwood City Belmont Caltrain Station to the Notre Dame Belmont Campus
Strategy 5.3 – Transit ADAS pilot	 Blindspot warning, automatic braking, lane keeping assist Automated parking in bus yards for storage and refueling/charging Precision docking Platooning on future BRT routes
Strategy 5.4 – AV data sharing pilot	 Curb use management Interactions with construction or work zones Interactions with emergency vehicles and response zones

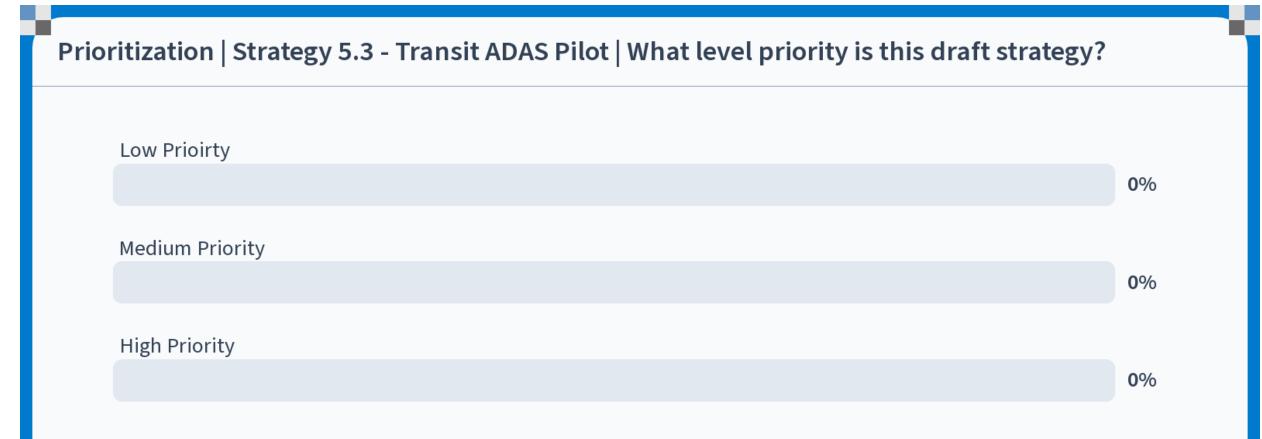




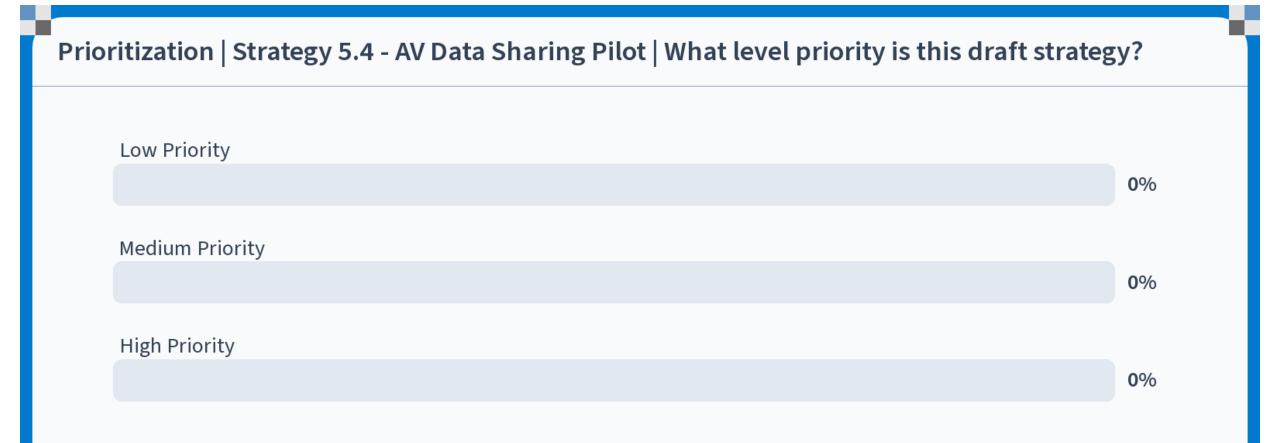
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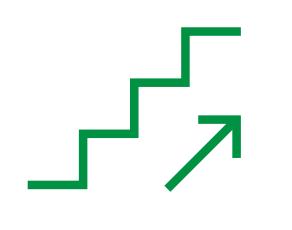
Draft Strategies



- > Are there any additional strategies we should consider?
- > What additional advice to you have for the team?



Next Steps



Where are we going next?

- January | Feedback from the TAC will be incorporated to refine the *draft* strategies and develop the *draft* AV Strategic Plan.
- Mid Q1 2024 | The project team will meet with the TAC to review the *draft* AV Strategic Plan.
- Late Q1 2024 | The draft AV Strategic Plan, with edits from the TAC, will be presented to the TA Board.
- Early Q2 2024 | The draft AV Strategic Plan will be brought to the C/CAG Board as a motion.





Project Website/Factsheets/Draft Existing Conditions Report Available at: <u>https://www.smcta.com/planning-projects/SMCAVPlan</u>

Contact Info:

Vamsi Tabjulu, SMCTA, <u>tabjuluv@samtrans.com</u>

Audrey Shiramizu, C/CAG, <u>ashiramizu@smcgov.org</u>

