Innovative Deployments to Enhance Arterials
Shared Automated Vehicle (IDEA SAV) Program
MTC Technical Assistance and Grant Opportunity
Agenda

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- Program Goal and Objectives
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- Grant Funding and Match
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IDEA SAV Web Page
https://mtc.ca.gov/our-work/operate-coordinate/intelligent-transportation-systems/connected-vehicles/innovative

Innovative Deployments to Enhance Arterials Shared Automated Vehicles (IDEA SAV)

MTC’s Innovative Deployments to Enhance Arterials Shared Automated Vehicle (IDEA SAV) Program assists public agencies with deploying Shared Automated Vehicle (SAV) solutions to improve transit service and equity. The program provides both technical assistance and a funding opportunity for Bay Area cities, counties and transit agencies.
MTC’s Role in SAVs: Helping Agencies Prepare for the Future

• To further the AV goals of MTC’s Horizon planning using selected priority strategies including:
  • “Innovate suburban transit with autonomous, on-demand microtransit”
  • “Subsidize public transit innovations”
  • “Prioritize AV mobility services [for Equity Priority Communities]”

• To improve mobility in Equity Priority Communities and ensure automated transit is accessible.

• To provide independent assessments of automated vehicles for transit service.

• To coordinate with agency AV pilots in order to assist adaptation to new technologies and service models.

Source: Figure 2.2, MTC Horizon AV Perspective Paper
IDEA SAV Program in Context

Pilot
Deploy automated transit to address rider needs

Evaluate
Assess capability of these services to equitably improve access

Synthesize
Determine needed policy and infrastructure changes

Scale
Attract funding and support to sustain new services
IDEA SAV Program Goal and Objectives

Program Goal
Equitably improve safety, mobility, and environmental outcomes through shared automated vehicle deployments.

Program Objectives
- Increase public sector experience and readiness for automated transportation by piloting AVs and/or complementary technologies.
- Improve access to mass transit for disadvantaged communities.
- Improve the accessibility of automated shared passenger services.
- Improve transit system performance through AV technology.
Eligibility and Considerations for Applicants

• A public agency in the nine-county Bay Area must serve as lead sponsor
  • Lead sponsor to be responsible for all deliverables, MTC will provide oversight

• MTC will enter into a funding agreement only with the lead agency

• Proposed variances to Program guidelines should be in the application

• Lead sponsor’s federal compliance effort includes but is not limited to:
  • Procurement
  • Systems Engineering
  • Buy America
Eligibility Requirements for Project Activities

The proposed project must:

1. Deploy a transportation service, asset, or application within 16-months.
   a) Must include a SAV and/or Complementary Technology.
   b) The key deliverable is the deployment, not a design or planning document.

2. Align with the Program Goal and at least two Objectives.

3. Address needs of at least one of the program target user groups.

4. Address identified transportation gaps and/or challenges.

5. Build knowledge to help prepare for an AV future.

6. Enhance or expand transit, defined broadly.
Eligible Technologies

Shared Automated Vehicles (SAVs):

- Eligible vehicles must have Level 3 - 5 driving automation as defined by SAE International J3016.

- Vehicles must be designed to carry multiple passengers.

- Vehicles must be accessible to all users, including people with disabilities.
Complementary Technologies help improve an SAV service or trip.

Technologies may include, but are not limited to:

• Enhanced vehicle or roadway sensors;

• Applications using Vehicle-to-Everything (V2X) communications;

• Traffic control devices optimized to support AVs;

• On-board / transit stop / mobility hub improvements that better accommodate AV users;

• Complete Trip solutions that serve all users for all phases of a trip from origin to destination; and

• Mobility as a Service (MaaS) software service that provides a seamless trip for users.
Program Target User Groups

Proposed project should be located within and serve the nine-county San Francisco Bay Area.

**Equity Priority Communities**
- People of Color population
- Low-income groups
- Limited English proficiency
- Zero-vehicle households
- Seniors (75 and over)
- Populations with a disability
- Single-parent families
- Cost-burdened renters

**People with Disabilities**
- Mobility
- Sensory
- Cognitive
- Veterans with a service-related disability

**Disadvantaged Communities**
- Communities that are disproportionately burdened by multiple sources of pollution
- Communities with population characteristics that make them more sensitive to pollution

More details on each of the following target user groups are in the Call for Projects document, Attachment A.
Grant Funding and Match

- Grant funds are only eligible to reimburse non-construction and non-engineering design activities
- The local cash match must directly relate to project implementation
- Public-private partnerships are encouraged but federal procurement rules apply

<table>
<thead>
<tr>
<th>Grant Funding</th>
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<tbody>
<tr>
<td>Total Funds</td>
<td>$2.5 million</td>
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<tr>
<td>Funds Available for Public Agency Grants</td>
<td>$1.75 million</td>
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<tr>
<td>Funds for MTC Pre-Award and Evaluation</td>
<td>$0.75 million</td>
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<tr>
<td>Minimum Grant Award</td>
<td>$0.5 million</td>
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<tr>
<td>Maximum Grant Award</td>
<td>$1.25 million</td>
</tr>
<tr>
<td>Minimum Local Cash Match (% of grant-eligible total cost)</td>
<td>25%</td>
</tr>
<tr>
<td>Minimum In-Kind Match (% of grant-eligible total cost)</td>
<td>10%</td>
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# Project Selection Timeline

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date*</th>
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<tbody>
<tr>
<td>MTC issues Call for Projects</td>
<td>June 14, 2021</td>
</tr>
<tr>
<td>Pre-Submittal Event</td>
<td>June 22, 2021</td>
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<tr>
<td>Stage 1 Q&amp;A period</td>
<td>June 14 – 28, 2021</td>
</tr>
<tr>
<td>MTC issues Addendum for responses to Stage 1 questions</td>
<td>June 30, 2021</td>
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<tr>
<td><strong>Stage 1 applications due</strong></td>
<td><strong>July 16, 2021 by 4:00 p.m. (Pacific)</strong></td>
</tr>
<tr>
<td>Public RFI Workshops to Collect Feedback on Proposals</td>
<td>August 17-18, 2021 (<em>tentative</em>)</td>
</tr>
<tr>
<td>MTC announces up to 5 applicants to advance to Stage 2 &amp; provides feedback</td>
<td>2&lt;sup&gt;nd&lt;/sup&gt; week of September</td>
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<tr>
<td>Stage 2 Q&amp;A period</td>
<td>2&lt;sup&gt;nd&lt;/sup&gt; – 4&lt;sup&gt;th&lt;/sup&gt; week of September</td>
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<tr>
<td>MTC issues Addendum for responses to Stage 2 questions</td>
<td>Late September</td>
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<tr>
<td><strong>Stage 2 applications due</strong></td>
<td><strong>October 20, 2021</strong></td>
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<tr>
<td>MTC completes review of Stage 2 applications and recommends awards</td>
<td>December 2021</td>
</tr>
<tr>
<td>MTC Committee Approval of Grant Awards</td>
<td>February 2022</td>
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*MTC reserves the right to modify the above dates given written notice/addendum.*
Request for Information (RFI) Workshops

• **Purpose:** To gather feedback from public stakeholders and technology experts on Stage 1 proposals
• Workshops will be held virtually
• Further workshop information will be provided by MTC via the outreach list and program webpage
  • Please email IDEASAV@bayareametro.gov to be added to outreach list

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<thead>
<tr>
<th>No.</th>
<th>Audience</th>
<th>Timeframe</th>
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<tbody>
<tr>
<td>1</td>
<td>Public organizations, community-based organizations, and advocacy groups</td>
<td>Mid-August 2021</td>
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<tr>
<td>2</td>
<td>Technology vendors and Original Equipment Manufacturers</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>To be determined by MTC, based on the submitted Stage 1 applications</td>
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Evaluation Criteria

Different criteria weights are assigned for Stage 1 and Stage 2 evaluations.

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Stage 1 Criteria Weight</th>
<th>Stage 2 Criteria Weight</th>
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<tr>
<td>Alignment with Program Goal, Objectives, and Requirements</td>
<td>25%</td>
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<tr>
<td>Implementation</td>
<td>25%</td>
<td>30%</td>
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<tr>
<td>Project Impact</td>
<td>20%</td>
<td>25%</td>
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<tr>
<td>Project Support/Agency Readiness</td>
<td>20%</td>
<td>25%</td>
</tr>
<tr>
<td>Exceeds Local Cash Match</td>
<td>10%</td>
<td>10%</td>
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Application Instructions

• Stage 1 and 2 applications shall be submitted via email to IDEASAV@bayareametro.gov
  • You may email Robert Rich, IDEA SAV Program Manager, with questions

• Applications should be prepared with standard formatting

• Application should consist of a searchable PDF file and writeable Excel file (budget submittal)

• Application page limits, as counted by 8.5 x 11-inch pages, not including any letters of support:
  • Stage 1: **15-page limit**
  • Stage 2: **30-page limit**
Program Contacts

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Mark Jensen
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Thank you for your participation!

Q&A Session

Please raise your hand and/or submit questions via the Zoom Chat.

We may ask you to summarize your questions in writing in the chat, for capture in the CFP Addendum.