Appendix H: Equitable Engagement Plan



Equitable VMT Mitigation Program for Santa Clara County: Engagement and Consensus Building Plan

Prepared for:

Santa Clara Valley Transportation Authority

September 2023

SJ23-2220

FEHR PEERS



Table of Contents

| 1. WHY will we engage the community? | 3 |
|--|----|
| 1.1 Goals and Objectives | 3 |
| 2. WHO will be involved? | 4 |
| 2.1 Communities and Stakeholders | 4 |
| 2.2 Project Team Presenters and Participants | 7 |
| 3. WHAT will we discuss with the community? | 8 |
| 3.1 Areas of Key Input | |
| 3.1.1 Phase I: Broad and Diverse Input that Prioritizes Needs of Equity Priority | |
| 3.1.2 Phase II: Filter and Refine | 10 |
| 3.1.3 Phase III: Confirm | 10 |
| 4. HOW and WHERE will we engage the community? | 11 |
| 4.1 Community Engagement Activities | 11 |
| 4.1.1 Surveys | 11 |
| 4.1.2 Meetings and Pop-ups | 12 |
| 4.1.3 Other Engagement Channels | 13 |
| 5. HOW will we monitor? | 14 |
| 6. WHEN will the engagement occur? | 16 |
| Appendix A: Working Engagement Contact List | 17 |
| List of Tables | |
| Table 1: Technical Advisory Group Contact List | 6 |
| Table 2: Phase I Input | 9 |
| Table 3: Phase II Input | 10 |
| Table 5: Engagement Schedule and Topics | 16 |



1. WHY will we engage the community?

1.1 Goals and Objectives

Community engagement is integral to developing an Equitable VMT Mitigation Program for Santa Clara County and is consistent with VTA's ongoing commitment to engaging a broad cross section of the community throughout the County. This Engagement and Consensus-Building Plan is developed to accommodate a thoughtful and inclusive engagement process that centers around Equity Priority Community (EPC) demographics and geographies and provides a clear path to involve these stakeholders and develop a successful Equitable VMT Mitigation Program for Santa Clara County. The Engagement and Consensus-Building Plan targets and engages EPC demographics and geographies early and often while providing a range of engagement activities to effectively solicit meaningful feedback and incorporate it into the project decision-making process.

We recommend the following Engagement and Consensus-Building Plan to ensure the Equitable VMT Mitigation Program for Santa Clara County provides clear information on how to identify the needs and preferences of EPCs, and to reflect these in the project team's efforts. The engagement process is designed to achieve the following outcomes:

- 1. **Understand Program Goals and Impacts**: EPCs, EPC Community-Based Organization (CBO) leaders, and staff from local jurisdictions are familiar with the Equitable VMT Mitigation Program and understand the goals and potential impacts of the Program at an appropriate level. By increasing the knowledge of these community members and leaders, we can collect informed and constructive input on the Equitable VMT Mitigation Program.
- 2. **Reach Wide Spectrum of Community**: Engagement activities meaningfully engage a wide spectrum of community members, especially traditionally hard-to-reach populations, and connect with key stakeholders across the county. Fehr & Peers will work with subconsultants and the CBO partners to intentionally and effectively seek feedback from EPCs by developing and working to meet quantifiable metrics of success.
- 3. **Reflect EPC Input**: The Equitable VMT Mitigation Program framework reflects EPC input, including shaping the VMT mitigation strategies that are recommended.
- 4. **Understand How Input is Used**: Community members and stakeholders understand how their input is used in developing the program framework and shaping the VMT reduction strategies with the goal of building consensus particularly with EPCs.

The Engagement and Consensus-Building Plan describes the planned activities and meetings that provide opportunities for communities and stakeholders to provide input on the Equitable VMT Mitigation Program.



2. WHO will be involved?

2.1 Communities and Stakeholders

Fehr & Peers will work with its subconsultant team, CBO partners, and VTA staff to identify a list of key communities and stakeholders from which to gather and integrate input on the Equitable VMT Mitigation Program strategies and framework. The goal will be to include a broad range of communities and groups that reflect the diversity of Santa Clara County and provide a variety of perspectives on transportation and land use. A list of stakeholders generated by VTA with input from the Fehr & Peers project team is attached as **Appendix A**.

The engagement and outreach activities will focus on sharing information with, and soliciting feedback from, the following groups of people:

General Public and EPC stakeholders refers to local residents, workers, and students who may have an interest in, or be affected by, the project. Outreach will also focus on gathering input from EPCs with an emphasis on:

- People living in MTC Equity Priority Communities plus Alviso in north San José
- People most comfortable speaking a language other than English
- People who often cannot find time to participate, such as single parents, people who work multiple jobs, or people who work night shifts
- First generation immigrants to the United States
- People who have not previously participated in the planning process, including youth
- People experiencing disability
- Rent burdened households and people experiencing low income
- Zero-vehicle households and transit riders
- Women, LGBTQ+ or non-binary community members

Input from the general public and EPC stakeholders will be used to inform the framework for the Equitable VMT Mitigation Program.

Community Based Organizations (CBOs) are local organizations that work closely with communities at a local level to empower communities and improve economic and social well-being. Our outreach will target CBO's that serve EPC geographies and demographics. **Appendix A** shows an initial list of CBOs to target and will continue to be finalized through the engagement process. Ultimately, we will seek to reach agreement from the CBOs on the Equitable VMT Mitigation Program.

Local Jurisdictions refers to local government agencies who will have a stake in the project. This would include VTA's member agencies which consists of 15 cities and the County of Santa Clara. Ultimately, we will seek to reach agreement from local jurisdictions on the final Equitable VMT Mitigation Program framework.



Researchers are people in the academic or professional field who are experts on topics related to VMT evaluation and mitigation.

Development Community refers to those involved in proposing land use development projects (development companies or non-profits), or those who represent developers such as site/civil engineering firms.

Decision Makers are those involved in local, regional or state regulatory government agencies who make the legislative and regulatory decisions in the community.

Technical Advisory Group (TAG) Stakeholders includes local jurisdictions, researchers, and decision makers. The TAG will be made up of agency representatives from VTA, Caltrans, Metropolitan Transportation Commission (MTC), Santa Clara County, San José State University, and each local jurisdiction. TAG meetings will be facilitated by VTA to solicit representatives' feedback on draft VMT mitigation program framework and options, with respect to the interests and goals of the represented agencies. **Table 1** lists the TAG participants as of mid-July 2023.



Table 1: Technical Advisory Group Contact List

| Agency | Identified Representatives |
|---|--|
| VTA | Gretchen Baisa, Lorena Bernal-vidal, Deanna Bolio, Shanthi Chatradhi, Aiko Cuenco, Lani Ho, David Kobayashi, Ian Lin, Menominee Mccarter, Cristina Nape, Jessie O'malley Solis, Brent Pearse, Laura Posadas, Robert Swierk |
| San José State University | Serena Alexander, Hilary Nixon |
| City of Campbell | Rob Eastwood, Matthew Jue |
| City of Cupertino | Luke Connolly, Piu Ghosh, Gian Martire, David Stillman |
| City of Gilroy | Sharon Goei, Cindy McCormick, Kraig Tambornini |
| City of Los Altos | Marisa Lee, Stephanie Williams |
| City of Milpitas | Jay Lee |
| City of Monte Sereno | Daryl Jordan |
| City of Morgan Hill | Maria Angeles, Tiffany Brown, Jennifer Carman, Adam Paszkowski |
| City of Mountain View | Phillip Brennan, Ben Pacho, Diana Pancholi |
| City of Palo Alto | Amy French, Shrupath Patel, Sylvia Star-Lack |
| City of San José | Banwait Manjit, Charla Gomez, Ramses Madou, Wilson Tam |
| City of Santa Clara | John Davidson, Karen Mack, Carol Shariat, Lesley Xavier |
| City of Saratoga | John Cherbone, David Dorcich |
| City of Sunnyvale | Dennis Ng, George Schroeder, Lillian Tsang, Angela Wong |
| Town of Los Altos Hills | Woojae Kim |
| Town of Los Gatos | Jennifer Armer, Nicolle Burnham, Savannah Van Akin, Tracy Wang |
| Santa Clara County | Ben Aghegnehu, Robert Cain, Samuel Gutierrez, Leza Mikhail |
| Metropolitan Transportation Commission | Krute Singa |
| Caltrans | Mark Leong, Yunsheng Luo |

All TAG members listed above are not anticipated to attend every meeting; instead, the goal is to attract a representative cross-section of county technical stakeholders to participate in this process. Meeting and project materials will be distributed to the whole group should TAG members want to follow along outside of designated meeting times.

TAG meetings will be structured with discussion items and interactive activities to encourage participation from members, and breakout rooms/sessions may be used for deep-dive discussions to give everyone an opportunity to provide input.



2.2 Project Team Presenters and Participants

Fehr & Peers will assist VTA throughout the engagement process including participating in most engagement meetings, preparing engagement materials and online surveys, and providing a summary of each phase of engagement which will be incorporated into the final report. VTA will provide translation of key materials into several non-English languages, as well as prepare day-after reports of events. Fehr & Peers will work with the following subconsultants and partner organizations:

- Ann Cheng Consulting
- Mariposa Planning Solutions (Chris Lepe)
- CBO Partners
 - o Carry the Vision
 - Catalyze SV

SJSU Mineta team members and students from the Fall 2023 Urban Planning 236 class taught by Dr. Serena Alexander will participate in select engagement events, particularly during Phase I.



3. WHAT will we discuss with the community?

3.1 Areas of Key Input

Engagement is divided into Phase I, Phase II, and Phase III; each phase will include specific areas of input as described below.

3.1.1 Phase I: Broad and Diverse Input that Prioritizes Needs of Equity Priority Communities (EPCs)

Phase I will solicit input on people's (residents, workers, and students) lived experience with transportation including behaviors, challenges, and needs. This phase will also gather information on existing VMT mitigation policies and strategies at the local level and challenges around implementation. Lastly, as part of Phase I we will introduce a broad set of VMT reduction strategies and seek feedback on strategy preferences and how to effectively implement these strategies. Community engagement will seek input, perspective, and knowledge from a broad spectrum of stakeholders and community members. This information will be used to develop the VMT reduction measures within the equity framework.

As a starting point in EPC and community-oriented events, we will share a bit of information (text/images for a non-technical audience) to frame the issue of why we are trying to reduce VMT and why people should care. We will also include one or two slides on "What We've Heard Already" that alludes to the fact that VTA, cities and the County have been talking with the community about transportation needs before and mentions some key plans/studies and types of transportation needs identified.

We will solicit feedback from the general public and community members in EPCs on their existing transportation behaviors, challenges, and needs, and VMT reduction strategies that best meet their needs. In Phase I, we will present general mitigation categories to understand what types of improvements best meet their needs. This is a working list that will be further worked through developing the engagement materials for Phase I.

- Access to Vehicles: carshare and rental car subsidies, or e-bike subsidies.
- Active Transportation Facilities: expanded bike network, expanded pedestrian network, or improved street connectivity.
- Land Use Strategies: transit-oriented development, increased job and residential density, increased density of affordable and market rate housing near transit, implementation of trip-end facilities (e.g., bike parking and other supportive amenities), or Housing Relocation-Subsidy Program (HRSP)¹.

¹ A concept for a VMT mitigation program focused on reducing the housing cost differential between high accessibility areas and low accessibility areas.



- Mobility Services: implement or expand on-demand shuttle services, shared ride van services, or bike- and scooter-share services.
- Transit Service Improvements: increased transit service frequency, increased network coverage, or implementation of transit-priority roadway treatments such as signal priority or dedicated lanes.
- TDM Programs and Incentives: subsidized or free transit passes, subsidized or free passes for bike- and scooter-share services or on-demand shuttles; subsidized bike leasing; or commute trip reduction services (e.g., Guaranteed Ride Home Program).
- Pricing Strategies: price public parking, workplace and/or residential parking, price freeway lanes, reduced transit fares, reduced public or free parking, or price parking at VTA facilities.

We will also solicit feedback on how to maximize the effectiveness of each VMT reduction strategy for different populations and in different contexts. The project team will note, in general terms, which VMT reduction strategies were desired by EPCs stakeholders and which were not. Phase II outreach will prioritize these VMT reduction strategies.

Table 2 shows the target audiences and the relevant input to be solicited from each group as part of Phase I.

Table 2: Phase I Input

| Group | Input |
|--|--|
| General Public and EPC Stakeholders | Lived neighborhood expertise and experiences with transportation, qualitative assessments of needs, barriers, and opportunities to gather input on how people travel today and their needs. (Task 1.1 to 1.5) Initial VMT reduction strategies to be developed in Task 3.1, that best address inventoried needs (VMT reduction strategies to be prioritized in Phase II engagement) |
| EPC-serving CBOs | Lived experiences with transportation within, to, and from Santa Clara County (as a resident, worker or student) and qualitative assessments of needs, barriers, and opportunities to gather input on how people travel today and their needs. (Task 1.1 to 1.5) Initial VMT reduction strategies to be developed in Task 3.1, that best address inventoried needs. (VMT reduction strategies to be prioritized in Phase II engagement) |
| Developers | Experiences and challenges with the local jurisdiction CEQA transportation analysis and mitigation process, focusing primarily on VMT. Interest in initial VMT reduction strategies to be developed in Task 3.1 |
| Researchers | Local mitigation practices, needs and statewide practices (Task 1.1 to 1.5) |
| TAG, including Local Jurisdictions | Local and statewide equity-oriented VMT mitigation and implementation practices and needs (Task 1.1 to 1.5) |
| | Defining equity across a range of topic areas to inform the work under Task 3.2 |



In Phase I events, we will also address "How we will use your feedback" so that engagement event participants have an idea of how their feedback will be used and to demonstrate that their input is valued.

3.1.2 Phase II: Filter and Refine

In Phase II we will work with the community and relevant stakeholders to identify potential mitigation strategies and the structure of the program. Upon first obtaining broad and diverse feedback as part of Phase I, Phase II will focus in on EPC stakeholders and EPC-serving CBOs to gather a narrower, equity-focused range of feedback.

The input from EPCs and EPC-serving CBOs will continue to be less technical and will focus on potential mitigation strategies, including preferences for how to prioritize reduction strategies and how to consider equity in the prioritization. EPC-serving CBOs will also be asked to consider certain aspects of the Equitable VMT Mitigation program to develop the outcomes of the program.

The input from the TAG/local jurisdictions will be technically focused, and will leverage information gathered from EPCs and EPC-serving CBOs on EPC priorities and needs. This will include looking at trade-offs associated with hypothetical projects and exercises to prioritize mitigation measures. The TAG/local jurisdictions will also provide input on the Equitable VMT Mitigation program structure (i.e., VMT Bank vs VMT exchange program). **Table 4** shows the audience and relevant input from each group.

Table 3: Phase II Input

| Group | Input |
|---------------------------------------|--|
| EPC Stakeholders | Input and feedback on the list of VMT mitigation projects and how they could be prioritized in Task 4.3. |
| EPC-serving CBOs | Input and feedback on the list of VMT mitigation projects and how they could be prioritized in Task 4.3. Input and feedback on program structure per content developed in Task 4.1, 4.2, and 4.4. |
| TAG, including Local Jurisdictions | Input and feedback on the list of VMT mitigation projects and how they could be prioritized in Task 4.3. Input and feedback on program structure per content developed in Task 4.1, 4.2, and 4.4. |

3.1.3 Phase III: Confirm

Phase III will provide an opportunity for feedback on the draft report. The draft report will reflect input collected from the community with feasibility details and strategy refinement informed by local jurisdiction insights. A streamlined and accessible summary of the report will be presented to the general public, decision makers, the TAG including local jurisdictions, CBOs, and researchers to allow opportunities for feedback and input.



4. HOW and WHERE will we engage the community?

This section describes the planned activities and meetings through which communities and stakeholders will have the opportunity to provide input on mitigation and implementation strategies.

4.1 Community Engagement Activities

A variety of community engagement activities are needed to engage a broad and diverse group of community members and stakeholders.

4.1.1 Surveys

We will use Social Pinpoint (an online webmap/survey tool that can be accessed on a computer or a smart phone) to share surveys through social media and at in-person community events as follows:

Phase I

- An online survey of local jurisdiction staff, to understand local jurisdiction VMT and transportation mitigation practices (refer to Task 1.2 for the survey specifications).
- An online survey of the general public and EPC members, to understand EPC travel needs, challenges, and preferences (refer to Task 1.4 and Task 3.1 for the survey specifications).

Phase II

 An online survey/prioritization exercise of the general public and EPC members (to inform Task 4.3), particularly focused on EPC input, to prioritize VMT mitigation measures.

The benefit of a webmap/survey is that it allows the project team to reach a widespread and diverse population of regional transportation users, nicely complementing the in-person community events that reach traditionally hard-to-reach residents. To help advertise the availability of the webmap/survey with the broader community and EPCs, Fehr & Peers will prepare a QR code and brief text that TAG members and EPC-serving CBO's can use to advertise via their social media platforms and other communication strategies. To ensure that the online survey format doesn't further inequality, Fehr & Peers and VTA will work with EPC-serving CBOs to distribute the survey through EPC-used spaces and monitor and update the distribution method to prioritize survey input from EPCs as defined above and in the equity framework. Community members without a mobile phone or data plan can complete the survey at inperson events.

The key outreach material and some meetings will be available in multiple languages options as described in **Section 4.1.2**. VTA will lead the translation of key written materials into non-English languages; in general, VTA will need a minimum of one week lead time for translation before materials are needed for distribution or use at an event.



Fehr & Peers will work with VTA and TAG representatives to determine the appropriate amount of time to push out marketing efforts to request feedback. After the commenting periods are closed, Fehr & Peers will review the community input and work with VTA to integrate the input.

4.1.2 Meetings and Pop-ups

In addition to online materials, VTA with members of the Fehr & Peers team will host or present at around 40 meetings throughout the course of this project to engage a broad and diverse group of community members and stakeholders. The following is a list of meeting and engagement activities across all three phases:

Three Virtual Community Meetings (one in each phase of engagement): These virtual meetings would include a streamlined presentation followed by participatory exercises focused on voting, as well as questions and comments. This format will allow the project team to share basic background information, help participants understand why they should care, and convey materials to a non-technical audience (targeted for an 8th grade reading level). The meetings will generally be 1.5 hours long and will be:

- Led by VTA with Fehr & Peers presenting technical content
- Introduced by CBOs to provide a welcome that resonates with target audience.
- Provided by Fehr & Peers in Spanish, Mandarin, Vietnamese, or other language options depending on need

Focus Groups, Pop-Ups, and Meetings Hosted by Others (through all three phase of engagement): These meetings will gather information from a mix of local jurisdictions, representative set of stakeholders, underserved communities, general public, and the TAG on specific topics such as people's lived experiences, local needs and challenges, industry practices, and preferences on proposed VMT mitigation strategies. The meetings will vary in size and length. While most meetings will be 1.5 to 2 hours long, the pop-up events will be longer, lasting between 3 and 4 hours. These events will be a mix of in-person or virtual events, depending on the situation. The following is a summary of planned events over the course of the three phases of engagement:

- Four Local Jurisdiction/Technical Focus Groups
 - Led by Fehr & Peers
 - o Likely virtual to make attendance easier
 - Separate from TAG meetings; intended to gather information on local needs and challenges, industry practices, and similar topics
- Three EPC Focus Groups
 - Led by Fehr & Peers, a CBO, and Chris Lepe
 - Fehr & Peers to provide Spanish or Mandarin translation
 - Location to be determined based on the focus of each group
 - Some participants in the two Phase I focus groups, may be invited back for the Phase II focus group if they are highly engaged in Phase I and represent key EPC constituencies.



- Twenty-Four EPC-Focused Meetings Hosted by Others
 - o Attending and presenting at meetings lead by other stakeholders and organizations
 - Twelve involving both VTA and Fehr & Peers/team, twelve involving only VTA staff
 - o Likely to be a combination of in person and virtual
- Ten EPC Pop-up Events
 - 5 Led by Fehr & Peers, CBO partners, and Chris Lepe
 - o 5 led by VTA
 - o Fehr & Peers to provide Spanish or Mandarin translation at 5 events

Six Online Technical Advisory Meetings (through the entire project): These meetings will be attended by the TAG created and managed by VTA. At these meetings, TAG members will receive milestone and outreach updates and opportunity to provide guidance and advice on decisions throughout the project, supplementing the engagement activities targeted at the broader community and agency stakeholders. VTA will lead the meetings and Fehr & Peers will support with presenting technical content. The meetings are expected to be about 1.5 hours long.

4.1.3 Other Engagement Channels

The project team will use a variety of other channels to raise awareness, share information, and engage with the general public and EPCs stakeholders. These will include:

- Maintaining a project website (https://www.vta.org/projects/equitable-vmt-mitigation-program-santa-clara-county) where basic project information, videos, dates of engagement events, and the draft Final Report will be posted; the site will have a box to allow interested individuals to sign up for email updates (led by VTA, with some content provided by Fehr & Peers and CBO partners)
- Developing three short videos to introduce the project and explain some of the concepts with words and images that are accessible to non-technical audiences (one developed by VTA, two by Fehr & Peers and CBO partners)
- Promoting events via email blasts, social media and occasional blog posts (led by VTA, with some content provided by Fehr & Peers and CBO partners)
- Providing periodic updates at VTA Board Committees (introductory item and in-progress update(s) led by VTA; presentation of draft Final Report and project recommendations led by VTA, with participation by Fehr & Peers and CBO partners at certain meetings)



5. HOW will we monitor?

It is important that the input reflects the needs and priorities of a diverse community and focuses on the feedback of EPCs. The community engagement efforts will be successful in prioritizing equity and EPCs if:

- 1. EPC-serving CBOs are actively involved in spreading the word about events and sharing project progress updates.
- 2. Individuals from EPCs are well represented among engagement event attendees (especially popup events and focus group participants), as well as among survey respondents (whether online, via paper surveys, or via boards/dot exercises).
- 3. The Equitable VMT Mitigation Program framework reflects EPC inputs and preferences and EPCs understand how their feedback is used.

The project team plans to monitor the demographics of individuals participating in engagement events in several ways. For the virtual community meetings and the web surveys, the project team will ask the following demographic questions to get a sense of who is participating:

- Age
- Race
- Disability status
- Gender identity
- Income
- Primary Mode of Transportation
- Home location (Zip code)

For in-person events, the project team will conduct rough observations of the age and race of attendees in the aggregate. The project team will also look into ways for event attendees and survey respondents to report where they live (i.e., zip code) to compare to the locations of EPCs across the county. For both virtual and in-person events, this information will be noted in the Day-After Reports.

At the conclusion of Phases I and II of engagement the project team will review the demographic and zip code data of participants/respondents and compare them to countywide demographic indicators, as well as the demographics of Equity Priority Communities. If the team finds that the events to date have not been successful in reaching EPC members (e.g., if the participants are largely higher-income, and not persons of color), the project team will identify ways to course-correct for the later phases of engagement. Some options for course-correcting could include changing the locations of pop-up events in Phase II to better attract EPC members; working with Fehr & Peers and our CBO partners to better publicize the events; and reaching new groups in Meetings Hosted by Others.



The SJSU Mineta team, including the Fall 2023 Urban Planning 236 class, will also help observe some of the Phase I engagement events, analyze demographic data on attendees, and provide another set of recommendations that VTA may consider for Phase II and III engagement (budget/logistics permitting), or for future projects.



6. WHEN will the engagement occur?

Phase I will occur between July and December of 2023. Phase II will start in January 2024 following the end of Phase I and is planned to be completed by April 2024. Phase III is set to occur between October and November of 2023 as the program framework is developed. Project timeline and schedule will be posted on the VTA project website to share important dates and milestones with the public.

Table 5: Engagement Schedule and Topics

| Phase and Engagement | 2023 | | | | | | 2024 | | | | | | | | | | | |
|--|------|----------------------|-----|-----|-----|-----|------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| Activities | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| Phase I: Broad and | | | | _ | | | | | | | | | | | | | | |
| Diverse Input | | • | • | • | | | | | | | | | | | | | | |
| Virtual Community | | | | | | | | | | | | | | | | | | |
| Meetings (1) | | | | • | | | | | | | | | | | | | | |
| Local Jurisdiction Technical | | | | • | | • | | | | | | | | | | | | |
| Focus Groups (3) | | | | • | · · | _ | | | | | | | | | | | | |
| Community Focus Groups (2) | | | | • | | | | | | | | | | | | | | |
| Meetings Hosted by Others (3) | | | | • | • | • | | | | | | | | | | | | |
| Community Pop-Up Events led by Contractor (3) | | | • | • | | | | | | | | | | | | | | |
| Community Pop-Up Events led by VTA (2) | | | • | • | | | | | | | | | | | | | | |
| Phase II: Filter and Refine | | | | | | | • | • | • | • | | | | | | | | |
| Virtual Community Meetings (1) | | | | | | | • | • | • | • | | | | | | | | |
| Local Jurisdiction Technical Focus Groups (1) | | | | | | | • | • | • | • | | | | | | | | |
| Community Focus Groups (1) | | | | | | | • | • | • | • | | | | | | | | |
| Meetings Hosted by Others (3) | | | | | | | • | • | • | • | | | | | | | | |
| Community Pop-Up Events led by Contractor (2) | | | | | | | • | • | • | • | | | | | | | | |
| Community Pop-Up Events led by VTA (3) | | | | | | | • | • | • | • | | | | | | | | |
| Phase III: Confirm | | | | | | | | | | | | | | | | • | • | |
| Virtual Community Meetings (1) | | | | | | | | | | | | | | | | • | • | |
| Meetings Hosted by Others (6) | | | | | | | | | | | | | | | | • | • | |
| Technical Advisory Group (TAG) Meetings (6) | | First TAG Meeting | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |



Appendix A: Working Engagement Contact List

| Organization | Cause | Web Page |
|---|---|--|
| A&T Training Center | Disabilities | |
| AARP | Seniors/Elderly | https://local.aarp.org/san-jose-ca/ |
| Access Community Resource Day | Disabilities | www.accesscommunityresourcesday |
| Program | Disabilities | program.org |
| Addison-Penzak JCC of Silicon | Seniors/Elderly | https://apjcc.org/ |
| Valley | Semons/ Liderry | nttps.//apjec.org/ |
| African American Community | Ethnic/Race | https://www.sjaacsa.org/ |
| Services Agency | Ethine, ridee | · , , , , , , , , , , , , , , , , , , , |
| Aging Services Collaborative of | Seniors/Elderly | https://www.agingservicescollaborat |
| Santa Clara County | · | ive.org/ |
| Alum Rock Counseling Center | Social Services | https://alumrockcc.org/ |
| Alzheimer's Association | Disabilities | https://www.alz.org/norcal |
| Amigos de Guadalupe Center for | Social Services | https://www.amigoscenter.com/ |
| Justice & Empowerment | | |
| Arab American Cultural Center of | Ethnic/Race | https://aaccsv.org/ |
| Silicon Valley Asian American Center of Santa | | |
| Clara County (AASC) | Ethnic/Race | https://asianamericancenterscc.org/ |
| Clara County (AASC) | | https://www.healthright360.org/loc |
| Asian American Recovery Services | Ethnic/Race | ation/santa-clara-county |
| Asian Americans for Community | | |
| Involvement (AACI) | Ethnic/Race | https://aaci.org/ |
| | 5:1 · (D | https://asianlawalliance.orghttps://a |
| Asian Law Alliance | Ethnic/Race | sianlawalliance.org/ |
| Assyrian American Association of | Ethnic/Race | https://www.appsi.org/ |
| San Jose | Etimic/Race | https://www.aaasj.org/ |
| Avenidas Rainbow Collective | LGBTQ+ | https://www.avenidas.org/programs |
| | _ | /lgbtq-seniors-initiative/ |
| Bay Area Housing Action Coalition | Homeless/Housing | https://housingactioncoalition.org/ |
| Bella Terra (Senior Apartments) | Seniors/Elderly | |
| Bill Wilson Center | Social Services | https://www.billwilsoncenter.org/ |
| Billy DeFrank LGBTQ Community | LGBTQ+ | https://www.defrankcenter.org/ |
| Center | -55.0 | |
| Black Leadership Kitchen Cabinet of | Ethnic/Race | https://blkc.org/ |
| Silicon valley | | |
| Boys and Girls Clubs of Silicon | Children/Youth | https://www.bgclub.org/ |
| Valley Proplethrough Cilicon Valley | Education | http://broakthroughgy.org/ |
| Breakthrough Silicon Valley | Education Health & Disease | http://breakthroughsv.org/ |
| Breathe California of the Bay Area Californians for Justice | | https://lungsrus.org/ https://caljustice.org/ |
| Carry the Vision | Advocacy/Social Justice Advocacy/Social Justice | |
| Carry the vision | Auvocacy/ Social Justice | https://www.carrythevision.org/ |

| Organization | Cause | Web Page |
|---|-------------------------|--|
| Catholic Charities of Santa Clara | Social Services | https://www.acces.org/2locale_op |
| County | Social Services | https://www.ccscc.org/?locale=en |
| Center for Employment Training | Other | https://cetweb.edu/ |
| Charities Housing | Homeless/Housing | https://charitieshousing.org/ |
| Chopsticks Alley Art | Ethnic/Race | https://www.chopsticksalleyart.org/ |
| Community Agency for Resources, Advocacy, and Services (CARAS) | Ethnic/Race | http://www.carassouthcounty.org/ |
| Community Services Agency of Mountain View & Los Altos (CSA) | Social Services | https://www.csacares.org/ |
| Community Solutions | Social Services | https://www.communitysolutions.org/ |
| Community Integrated Work Program | Disabilities | http://www.ciwp.org/ |
| Day Worker Center of Mountain View | Social Services | https://www.dayworkercentermv.org/ |
| Deaf Counseling Advocacy and Referral Agency (DCARA) | Advocacy/Social Justice | https://dcara.org/ |
| DeAnza College - Disability Support Program and Services | Disabilities | www.collegeofadaptivearts.org |
| Destination: Home | Homeless/Housing | https://destinationhomesv.org/ |
| Eden Housing Inc. | Seniors/Elderly | |
| Employment and Community Options | Disabilities | https://optionsforall.org/ |
| Eritrean Community Center | Ethnic/Race | http://www.eritreancommunity.org/ |
| Ethiopian Community Services | Ethnic/Race | https://www.ecssanjose.org/ |
| Family & Children Services of Silicon Valley (A Caminar Division) | Health & Disease | https://www.fcservices.org/ |
| Fiesta Educativa | Ethnic/Race | https://fiestaeducativa.org/ |
| First Community Housing | Homeless/Housing | https://www.firstcommunityhousing .org/ |
| Foothill College - Transition to work | Disabilities | |
| Fresh Lifelines for Youth (FLY) | Children/Youth | https://flyprogram.org/ |
| Friends of Children with Special Needs | Disabilities | https://fcsn1996.org/ |
| Gardner Family Health Network, Inc. | Health & Disease | https://gardnerhealthservices.org/ |
| Goodwill of Silicon Valley | Social Services | https://goodwillsv.org/ |
| Greater Opportunities | Disabilities | https://greateropportunities.org/ |
| Green Oak Developmental Center | Disabilities | https://green-oak.org/greenoak3 |
| Health Mobile | Health & Disease | http://www.healthmobile.org/ |
| Heart of the Valley, Services for Seniors | Seniors/Elderly | https://www.servicesforseniors.org/ |
| Homefirst | Homeless/Housing | https://www.homefirstscc.org/ |



| Organization | Cause | Web Page |
|--|-------------------------|--|
| Hope Services | Social Services | https://www.hopeservices.org/ |
| Immigrant Resettlement & Cultural | | https://www.sanjose.org/attraction/ |
| Center, Inc. (Viet Museum) | Ethnic/Race | viet-museum |
| India Community Center | Ethnic/Race | https://www.indiacc.org/ |
| Indian Health Center of Santa Clara Valley | Ethnic/Race | https://indianhealthcenter.org/ |
| International Children's Assistance Network (ICAN) | Children/Youth | https://www.ican2.org/ |
| International Rescue Committee | Advocacy/Social Justice | https://www.rescue.org/united- states/san-jose-ca |
| Islamic Circle of North America (ICNA) Bay Area | Ethnic/Race | https://www.icnabayarea.org/ |
| Jewish Family & Children's Services | Ethnic/Race | https://www.jfcs.org/ |
| Jewish Family Services of Silicon Valley | Ethnic/Race | https://www.jfssv.org/ |
| Korean American Community Services, Inc. (KACS) | Ethnic/Race | https://www.kacssv.org/ |
| Latina Coalition of Silicon Valley | Ethnic/Race | https://www.latinacoalition.org/ |
| Latinas Contra Cancer | Ethnic/Race | https://www.latinascontracancer.org L |
| Latino Business Foundation Silicon Valley | Ethnic/Race | https://www.lbfsv.org/ |
| Latinos United for a New America (LUNA) | Advocacy/Social Justice | https://www.lunalatinosunidos.org/ |
| LEAD Filipino | Ethnic/Race | https://leadfilipino.org/ |
| Let's Talk Housing | Hunger & Poverty | https://www.letstalkhousingscc.org/ |
| LGBTQ Youth Space (A Caminar Program) | LGBTQ+ | https://youthspace.org/ |
| LifeMoves | Homeless/Housing | https://www.lifemoves.org/ |
| Live Oak Adult Day Services - Cupertino | Seniors/Elderly | https://liveoakadultdaycare.org/ |
| Live Oak Adult Day Services - Gilroy | Seniors/Elderly | https://liveoakadultdaycare.org/ |
| Live Oak Adult Day Services - Los Gatos | Seniors/Elderly | https://liveoakadultdaycare.org/ |
| Live Oak Adult Day Services - Willow Glen | Seniors/Elderly | https://liveoakadultdaycare.org/ |
| Los Gatos - Saratoga Recreatiom | Seniors/Elderly | https://www.lgsrecreation.org/ |
| MACLA/Movimiento De Arte Y Cultura Latino Americana | Ethnic/Race | https://maclaarte.org/ |
| Mexican Heritage Plaza | Ethnic/Race | https://www.schoolofartsandculture. org/ |
| Midtown Family Services | Homeless/Housing | https://midtownfs.org/ |
| Mission College - Disability Support Program and Services | Disabilities | |
| Momentum for Health | Health & Disease | https://momentumforhealth.org/ |

| Organization | Cause | Web Page |
|---|--------------------------|--|
| Moving Forward-Santa Clara Adult Ed | Disabilities | |
| National Alliance of Mental Illness (NAMI) Santa Clara County | Health & Disease | http://www.namisantaclara.org |
| Next Door Solutions to Domestic Violence | Social Services | https://www.nextdoorsolutions.org/ |
| On Lok | Seniors/Elderly | https://onlok.org/ |
| Oshman Family Jewish Community Center | Seniors/Elderly | https://www.paloaltojcc.org/ |
| PACT San Jose | Advocacy/Social Justice | https://www.pactsj.org/ |
| Pakistani American Community Center | Ethnic/Race | http://www.pacc-ca.org/ |
| PARS Equality Center | Ethnic/Race | https://parsequalitycenter.org/ |
| Planned Parenthood Mar Monte Inc | Women's Issues | https://www.plannedparenthood.or g/planned-parenthood-mar-monte |
| Portuguese Organization for Social Services and Opportunities (POSSO) | Ethnic/Race | https://portuguesecenter.org/ |
| Project Hired | Disabilities | https://www.projecthired.org/ |
| Project More Foundation | LGBTQ+ | https://domoreproject.org/ |
| Recovery Cafe San Jose | Social Services | https://recoverycafesj.org/ |
| Sacred Heart Community Service | Hunger & Poverty | https://www.sacredheartcs.org/ |
| Saint Catherine Church | Religion | https://stca.org/ |
| Salvation Army | Social Services | https://siliconvalley.salvationarmy.or |
| San Andreas Regional Center | Disabilities | https://www.sanandreasregional.org |
| San Jose Bridge Communities | Social Services | https://www.sjbridgecommunities.or |
| San Jose City College Disability Support Programs and Services | Disabilities | |
| San Jose Conservation Corps | Education | https://www.sjcccs.org/ |
| San Jose Conservation Corps + Charter School | Other | https://www.sjcccs.org/ |
| San Jose Grail Family Services | Social Services | https://gfsfamilyservices.org/ |
| San Jose/Silicon Valley NAACP | Advocacy/ Social Justice | http://www.sanjosenaacp.org/ |
| Santa Clara Senior Center | Seniors/Elderly | https://www.santaclaraca.gov/our- city/departments-g-z/parks- recreation/community- centers/senior-center |
| Saratoga Area Senior Coordinating Council | Seniors/Elderly | https://www.sascc.org/ |
| Second Harvest Food Bank | Hunger & Poverty | https://www.shfb.org/ |
| Self-Help for the Elderly | Seniors/Elderly | www.selfhelpelderly.org |
| Services Immigrant Rights and Education Network (SIREN) | Advocacy/Social Justice | https://www.sirenimmigrantrights.or |
| Sewa International Bay Area | Hunger & Poverty | https://sewausa.org/ |



| Organization | Cause | Web Page |
|--|------------------|---|
| Shreemaya Krishnadham Bay Area Youth Vaishnav Parivar | Ethnic/Race | https://bayvp.org/ |
| Si Se Puede Collective | Ethnic/Race | https://www.sspcmayfair.org/ |
| Silicon Valley Bike Coalition | Transit | https://bikesiliconvalley.org/ |
| Silicon Valley Center for Independent Living | Disabilities | |
| Silicon Valley Independent Living Center | Disabilities | https://svilc.org/ |
| Silicon Valley Independent Living Center | Disabilities | https://svilc.org/ |
| Silicon Valley Korean American Federation | Ethnic/Race | http://svkaf.org/content_view.php?c o_id=contact |
| Social Vocational Services | Disabilities | http://www.SocialVocationalServices .org |
| Society of Saint Vincent De Paul Santa Clara County | Religion | https://www.svdp.org/ |
| Somos Mayfair | Ethnic/Race | https://www.somosmayfair.org/ |
| South Bay Coalition to End Human Trafficking | Social Services | https://southbayendtrafficking.org/ |
| South Bay Islamic Association | Ethnic/Race | https://sbia.info/ |
| Sunnyvale Community Services | Social Services | https://svcommunityservices.org/ |
| Sunnyvale Hindu Temple & | Poligion | https://www.sunnyvale- |
| Community Center | Religion | hindutemple.org/ |
| SV @ Home | Homeless/Housing | https://siliconvalleyathome.org/ |
| Sycamore Glen (Senior Housing) | Seniors/Elderly | |

| Organization | Cause | Web Page |
|--|-------------------------|--|
| Taiwanese American Center | Ethnic/Race | https://sites.google.com/taiwanacen |
| raiwanese American Center | Ltillic/ Nace | ter.org/tac/home |
| The Unity Care Group | Children/Youth | https://www.unitycare.org/ |
| Timpany Center @ San Jose State University | Seniors/Elderly | www.sjsu.edu/timpany |
| TransForm | Transit | https://www.transformca.org/ |
| Ujima Adult & Family Services | Ethnic/Race | https://www.ujimaagency.org/ |
| United Way Bay Area | Hunger & Poverty | https://uwba.org/ |
| Vietnamese Amer. Prof. Womens Association | Ethnic/Race | |
| Vietnamese American Service Center | Ethnic/Race | https://vasc.sccgov.org/home |
| Vietnamese Voluntary Foundation (VIVO) | Ethnic/Race | https://www.vivousa.org/ |
| Vision Literacy North County | Education | https://www.visionliteracy.org/ |
| Vista Centers for the Blind and Visually Impaired | Disabilities | https://vistacenter.org/ |
| West Valley College - Disability Support Program and Services | Disabilities | |
| West Valley Community Services | Hunger & Poverty | https://www.wvcommunityservices. org/ |
| Working Partnerships USA | Advocacy/Social Justice | https://wpusa.org/ |
| Yu Ai Kai Senior Services | Seniors/Elderly | https://yuaikai.org/ |
| YWCA of Silicon Valley | Women's Issues | https://yourywca.org/ |



Appendix I: Phase 1 -Broad and Diverse Input



Appendix I1:
Phase 1
Community
Engagement
Summary
Memorandum



Phase 1 Engagement Summary

Phase 1 Engagement Goals

- Solicit broad feedback from a broad spectrum of stakeholders and community members.
- Gather information on existing travel behaviors, challenges, and needs.
- Gather information on existing VMT mitigation practices.
- Feedback on a broad set of VMT reduction strategies.

Phase 1 Events

The project team hosted the following events as part of Phase 1:

- 6 Pop-ups
- 1 Virtual community meeting
- 1 Community web survey
- 1 Local jurisdiction web survey
- 2 CBO focus groups
- 2 Local jurisdiction focus groups
- 2 Technical advisory meetings
- 2 Explainer videos
- Additional presentations to organizations and VTA committees



Phase 1 Results

Summary of Broad Community Feedback

"What solves your biggest transportation challenges?" "What would help you or others drive less?"

- <u>Frequency of service.</u>
 Buses not having signal priority or getting held up in traffic. Badly timed transfers.
- I live in South county and there is really poor transit coverage.
- I don't feel safe riding transit especially at night.
- As I age, I worry about mobility since I am no longer able to safely ride my bike or drive.
- Add EV shuttle services for large hospitals, medical clinics, and shopping centers too.
- There is an embedded culture of car ownership.
- It's impossible for me to take my dogs to daycare via transit.

- Lack of Wi-fi on transit.
- Delayed transit times, ongoing human trafficking from individuals wearing modern plain clothing.
- Money is my biggest issue. I make minimum wage so even Clipper is hard to afford.
- Home to work takes 12
 minutes driving alone vs
 50+ minutes by Caltrain +
 VTA. Bicycling is feasible
 but zigzags along
 unpleasant wide roads
 with narrow bike lanes,
 and busy intersections
 with slip lanes and long
 red time.
- Lack of dense <u>development in Santa</u> Clara County means <u>there's less available to</u> you on foot, bike, or bus.

- I live far from work with little children. I need to be able to get home quickly in an emergency.
- Weekend service is too <u>limited</u>. The weekend is when I have the most places to go to other than work but have the fewest options available.
- My job offers free parking, and free vehicles for work trips, no commuter benefit, no transit pass.
- Inability to chain trips on foot and transit since transit is not frequent enough.
- Lack of awareness of transit pass and discount options.
- Being motivated to leave my home is my biggest transportation challenge.



Summary of Local Jurisdiction Feedback

What types of projects are most challenging to mitigate? What else would you like to share?

- State guidance on how to assess VMT impacts do not work well in rural unincorporated areas, or for regional serving uses or attractions.
- We need to learn about all available funding for transportation improvements within communities of concern.
- Achieving City staff expertise and policy-maker familiarity with VMT concepts is key.
- The CEQA threshold of 15% below the existing city/regional average would not help achieve San Jose's 2040 VMT goal to reduce VMT per service population by 45% from the 2017 level.
- City staff found it <u>difficult to</u> <u>identify a meaningful,</u> <u>VMT-reducing</u> <u>improvement in a high-</u> <u>VMT area.</u>
- It would be helpful to have a per square foot mitigation fee.
- No project has exceeded our VMT thresholds.

- Equity should be secondary to identifying Countywide VMT solutions for CEQA.
- The most difficult projects to mitigate are the townhouse projects just large enough to not be screened out of the VMT analysis process.
- We are struggling with how we measure actual VMT in practice once the development is occupied to verify the effectiveness of the mitigations.
- The VMT screening indicated a VMT analysis was needed, only that ultimately showed the project resulted in a decrease of regional VMT and would not have a significant impact.
- VMT for an industrial site is created by employees (which can be partially mitigated) and by heavy equipment and hauling (which cannot be effectively mitigated).
- How do we determine staff resources required for the

- verification process and how do we manage that moving forward as more developments come online?
- A key mitigation measure prioritized by the City includes transit service improvements that are dependent on its partnership with VTA.
- Concerns include reconciling the City's VMT goals with GP policies related to maintaining acceptable LOS at major intersections.
- The Specific Plan Area is currently located outside of an established core or transit station area which will make it challenging to attract a significant share of residents, employees, and visitors to use transit.
- Gilroy cannot achieve the level of reductions required given its small size and location far from employment centers.



VMT Reduction Strategy Preferences

We asked participants "Which VMT reduction strategies best solve your biggest transportation challenge?" **Table 1**, presents the results of the VMT reduction strategies. Key findings include:

- Community Results (pop-up, virtual, and web survey):
 - Frequent and Fast Transit Service
 - Biking and Walking Paths
 - Many Things To Do Close By

Notes about community respondents:

- The younger respondents were overrepresented compared to county population and many already take transit.
- Only about half of respondents felt they needed access to a vehicle to meet day-to-day needs (web-survey only).
- Travel speed, cost, and availability of the transportation mode matter to the respondents.
- Little interest in carshare (cost, lack of availability, and need for flexibility), and carpooling (need for flexibility, convenience, and speed)

We asked local jurisdictions to rank VMT reduction strategies from most useful¹ to least useful. **Table 1**, presents the results of the VMT reduction strategies. Key findings include:

- Local Jurisdiction Results (web survey):
 - Access to vehicles
 - Mobility Services
 - Transit, Bike, & Carpool Incentives

Notes about local jurisdiction responses:

- Local jurisdictions are supportive of transit, but their experience is that it is not effective at reducing VMT.
- The leading options were selected as a way to meet first-mile/last-mile service and to fill travel gaps.
- "Return to source funding" of mitigation was a concept that was important for local jurisdictions.

¹ "Useful" in this case can mean feasible to implement, relevant to your jurisdiction, and/or supported by other policies and planning efforts.



Table 1: Which VMT Reduction Strategies Best Solve Your Biggest Transportation Challenge?

| VMT Reduction Strategy | | | Virtual Meeting ¹ | | Survey ¹ | | Local Jurisdictions ² | |
|--|------------|------------|---------------------------------|------------|---------------------|------------|-------------------------------------|------------|
| | Count | Percent | Count | Percent | Count | Percent | Weighted Value | Percent |
| On-Demand Mobility | 26 | 6% | 4 | 6% | 42 | 6% | <u>69</u> | <u>25%</u> |
| Mobility Services | - | - | - | - | - | - | <u>58</u> | <u>21%</u> |
| Biking and Walking Paths | <u>105</u> | <u>25%</u> | <u>17</u> | <u>25%</u> | <u>166</u> | 23% | 32 | 11% |
| Many Things to do Close-by | <u>78</u> | <u>18%</u> | <u>8</u> | 12% | <u>156</u> | <u>21%</u> | 37 | 13% |
| Frequent and Fast Transit | <u>118</u> | <u>28%</u> | <u>15</u> | 22% | <u>256</u> | <u>35%</u> | 40 | 14% |
| Transit, Bike & Carpool Incentives | 32 | 8% | 7 | 10% | 31 | 4% | <u>45</u> | <u>16%</u> |
| Change Travel Cost | 45 | 10% | 3 | 4% | 59 | 8% | - | - |
| Other | 21 | 5% | 14 | 21% | 18 | 3% | - | - |
| Total | 425 | 100% | 68 | 100% | 728 | 100% | 281 | 100% |

Underlined text indicates most frequent or highest ranked responses. Notes:

Source: Fehr & Peers, 2023.



^{1.} Respondents were asked to select their top two strategies. The results are based on total number of votes.

^{2.} Respondents were asked to rank these strategies from most useful to least useful. The results are shown as a weighted score based on ranking.

Phase I Event Summary

Table 2 shows the general demographic statistics of Phase I outreach participants by event type.

Table 2: Event Summary

| Event Type | Participants | Age range | Race/ethnicity | Household Income | Format Tradeoffs |
|--|--|---|--|-------------------------------|--|
| Pop-Ups | 323 | Families with children and seniors | Mostly Asian- American, Caucasian and Latino/Hispanic with some African-American. | - | Gathering and documenting quick input (mapping, multiple choice). One-off interaction. Can target specific EPC geographies. |
| Virtual Community Meeting | 23 | Mostly between 25 and 34 years old, some between 45 and 54 years old | Largely Asian- American and Caucasian | Most marked income >200k | Gathering and documenting quick input (mapping, multiple choice). Low turnout. Focus on transportation enthusiasts, low EPC representation. |
| Community Web Survey | >350 responses | Mostly between 26 and 35 years old | 51% White and 29% Asian | 65% make over \$100,000 | Broad input from large sample size. No opportunity for dialogue. Good for understanding the relationship between multiple variables. Moderate EPC representation. |
| CBO Focus Groups | 16 participants representing 15 organizations | - | - | - | Good for in-depth conversations with back-and-forth dialogue on program trade-offs. Can target invites to specific EPC community leaders. |
| Local Jurisdiction Focus Groups | 31 participants representing 15 of 16 local jurisdictions in Santa Clara County | - | - | - | Good for in-depth conversations with back-and-forth dialogue on program trade-offs. |

Source: Fehr & Peers, 2023.



Age

Pop-ups: Mostly families and seniors.

Virtual Community Meeting: As shown in **Table 3**, 42% of Zoom poll participants were between 25 and 34 years of age. About 37% were over 45 years old.

Community Survey: Mostly (61%) under 45 years old.

Table 3: Age of Phase I Participants

| VMT Reduction Strategy | Pop-Ups | Virtual Meeting | | Community Survey | | Santa Clara County | |
|--|--|--------------------|----------------|---------------------|---------|--------------------------|---------|
| | | Count | Percent | Count | Percent | Count | Percent |
| less than or equal to 25 years old | Mostly families and seniors. VTP Open house had a few younger collegeaged advocates. | 1 | 5% | 50 | 13% | 544,607 | 29% |
| 26-35 years old | Same as above | 8 | 42% | 110 | 28% | 298,826 | 17% |
| 36-45 years old | Same as above | 2 | 11% | 76 | 20% | 268,938 | 14% |
| 46-55 years old | Same as above | 3 | 16% | 58 | 15% | 249,141 | 13% |
| 56-65 years old | Same as above | 2 | 11% | 48 | 13% | 227,289 | 12% |
| 66-75 years old | Same as above | 2 | 11% | 32 | 8% | 155,835 | 8% |
| 76-85 years old | Same as above | Included above | Included above | 12 | 3% | 88,614 | 5% |
| Other | Same as above | 1 | 4% | - | - | 37,695 | 2% |
| Total | | 68 | 100% | 387 | 100% | 1,870,945 | 100% |

Notes:

Source: Fehr & Peers, 2023.

Race/Ethnicity

We gathered race and ethnicity information through observation and asking optional survey questions. The results are shown in **Table 4** and described below:

Pop-ups:

• Viva Calle and VTP Open House skewed more Caucasian and some Asian-American.



^{1.} American Community Survey, 2022 1-year.

- Alviso Day by the Bay and De Anza Flea Market had between 40-60% Asian-American participants, 15-25% Latino participants, 15-25% Caucasian participants, and <10% African-American participants.
- Gilroy Dia De Muertos participants were between 80-90% Latino/Hispanic.

Virtual Community Meeting: As shown in **Table 4**, of the participants who took the Zoom poll, 37% were Asian-American and 32% were Caucasian.

Community Meeting: As show in **Table 4**, of the 51% of participants who took the survey, 51% were White and 29% were Asian-American.

Table 4: Race/Ethnicity of Phase I Participants

| VMT Reduction Strategy | Pop-ups | Virtual Meeting | | Survey | | Santa Clara County ¹ | |
|---|---|--------------------|---------|--------|---------|---------------------------------------|---------|
| | | Count | Percent | Count | Percent | Count | Percent |
| White | Mostly Asian- American and Caucasian. Some Latino/Hispanic | 6 | 32% | 214 | 51% | 511,254 | 27% |
| Black or African American | same as above | 1 | 5% | 5 | 1% | 41,239 | 2% |
| American Indian and Alaska Native | same as above | | | 4 | 1% | 2,932 | 1% |
| Asian | same as above | 7 | 36% | 120 | 29% | 753,965 | 40% |
| Native Hawaiian and Other Pacific Islander | same as above | - | - | 8 | 2% | 6,534 | 1% |
| Hispanic/Latino | same as above | - | - | 58 | 13% | 462,494 | 24% |
| Some other race | same as above | 2 | 11% | 11 | 3% | 92,527 | 4% |
| Not Specified | same as above | 3 | 16% | - | - | - | - |
| Total | same as above | 19 | 100% | 387 | 100% | 1,870,945 | 100% |

Notes:

1. American Community Survey, 2022 1-year.

Source: Fehr & Peers, 2023.



Commute Travel Modes

We asked participants to identify the travel mode for their work commute or a trip they made frequently (over two trips per week). The results are presented below in **Table 5**. Generally, most participants noted they drove alone.

Table 5: Commute Travel Modes of Phase I Participants

| VMT Reduction Strategy | Pop- Ups | | Virtual Meeting | | Survey | | Santa Clara County ¹ | |
|------------------------------------|-------------|---------|--------------------|----------------|--------|---------|---------------------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent | Count | Percent |
| Drive Alone/Personal Vehicle | 165 | 55% | 9 | 47% | 151 | 27% | 573,510 | 78.8% |
| Carpool | 15 | 5% | Included above | Included above | 32 | 6% | 85,750 | 11.8% |
| Transit | 58 | 19% | 3 | 16% | 43 | 8% | 19,997 | 2.7% |
| Bike | 38 | 13% | 3 | 16% | 103 | 18% | 14,613 | 2.0 |
| Walk | 15 | 5% | 1 | 5% | 4 | 1% | 19,283 | 2.7% |
| Other | 8 | 3% | | | 142 | 25% | 14,261 | 2.0% |
| Not Specified | 3 | 1% | 3 | 16% | 62 | 11% | - | - |
| Total | 302 | 100% | 19 | 100% | 557 | 100% | 727,414 | 100% |

Notes:

1. American Community Survey, 2022 1-year. Source: Fehr & Peers, 2023.





Appendix I2: Virtual Community Meeting Presentation





Equitable VMT Mitigation Program

Programa de mitigación de VMT equitativo de VTA Chương trình giảm thiểu VMT mang tính công bằng của VTA VTA 公平 VMT 缓解计划

Virtual Community Meeting #1
Primera reunión virtual con la comunidad
Cuộc Họp Cộng Đồng Qua Mạng #1
虛擬社區會議 #1

October 16, 2023

16 de octubre de 2023 Ngày 16 tháng 10 năm 2023 2023年10月16日



FEHR PEERS

Language Channels / Interpretation

Canales de Idiomas / Interpretación Kênh Ngôn Ngữ/Thông Dịch

語言頻道/口譯

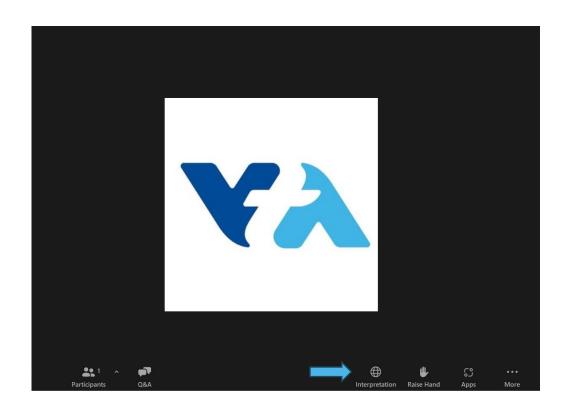
Click Interpretation ...

Click the language that you would like to hear; everyone should pick; do not use the default.

Haga clic en Interpretación. Seleccione el idioma que le gustaría escuchar. Todos deben elegir una de las opciones; no utilice el idioma predeterminado al inicio de la reunión.

Nhấp vào Interpretation (Thông Dịch). Chọn ngôn ngữ quý vị muốn nghe. Mỗi người nên chọn một ngôn ngữ; không sử dụng ngôn ngữ mặc định.

點擊「口譯」 選擇您想聽到的語言。每個人都應選擇一個語言;不要使用預設。



Staff and Interpreter Introductions

Presentación del personal y del intérprete Giới Thiệu Nhân Viên và Thông Dịch Viên

工作人員和口譯員介紹

Carry the Vision:

Brittany Mendoza

Interpreters:

Alex Zajdman Van Nguyen Hong Jing Yang

Caltrans:

Mark Leong

VTA:

Deanna Bolio Ian Lin Laura Posadas Rob Swierk

Fehr & Peers:

Taylor McAdam



What is the project about?

¿De qué se trata el proyecto? Dự án này nói về cái gì?

本項目有關何事?

Reducing driving from development projects

Reducir los niveles de conducción vehicular desde los proyectos de desarrollo

Giảm việc lái xe từ các dự án phát triển

減少開發項目的驅動

Improving transportation options

Improving equity, Mejorar la equidad, especialmente para las especially for comunidades que más communities that need la necesitan

transporte

Cải thiện các lựa chọn Mejorar las opciones de giao thông

> Cải thiện tính công bằng, đặc biệt là đối với các cộng đồng cần nó nhất

改善交通選項

提高公平性,特別是 對最需要平等的社區



it the most

Meeting Recording

Grabación de la reunión Ghi âm cuộc họp

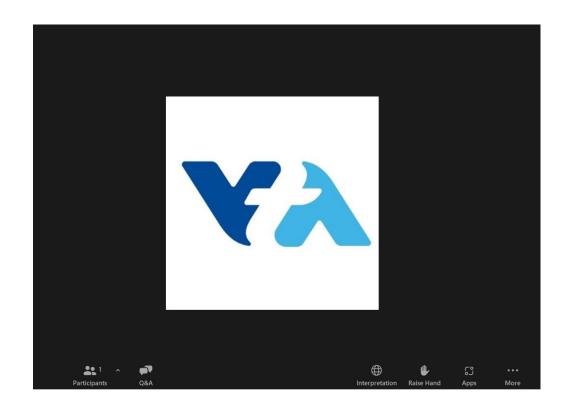
會議錄音

The meeting will be automatically be recorded.

Esta reunión está siendo grabada.

Cuộc họp này đang được ghi lại.

本次會議正於錄製中。





How to Participate

Cómo participar Cách thức tham gia

如何參與

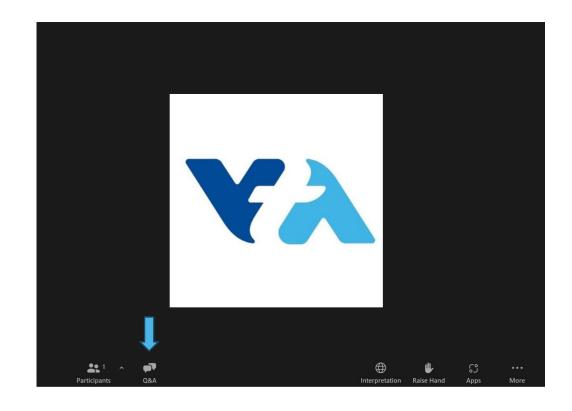
Please use the Q&A to request Zoom technical assistance, ask questions or share comments.

Utilice la función de preguntas y respuestas (Q&A) para solicitar asistencia técnica con Zoom, hacer preguntas o compartir comentarios.

Vui lòng sử dụng phần Q&A (Hỏi & Đáp) để yêu cầu hỗ trợ kỹ thuật cho Zoom, đặt câu hỏi hoặc đưa ra nhận xét.

請用Q&A向Zoom請求技術協助、提問或分享評論





Productive Meeting Tips

Consejos para tener una reunión productiva Lời Khuyên Họp Hiệu Quả

高效會議技巧

- Be respectful of one another.
- Please share time to allow others to speak.
- Participants will automatically be muted.
- Disruptive participants may be removed from
- the meeting.

- Sean respetuosos los unos con los otros.
- Por favor comparta el tiempo de su participación para permitir que otros hablen.
- Los participantes serán silenciados automáticamente.
- Los participantes que causen perturbaciones podrán ser retirados de la reunión.

- Hãy tôn trọng lẫn nhau.
- Vui lòng chia sẻ thời gian với người khác để họ có thể nói.
- Người tham gia sẽ tự động bị tắt tiếng.
- Những người tham gia gây cản trở có thể bị mời ra khỏi cuộc họp.

- 互相尊重。
- 請給他人發言的時 間。
- 參與者將被自動靜
- 搗亂者可能會被踢 出會議。



Agenda **Agenda Chương Trình**

議程

- 1. Project overview
- 2. What input are we looking for today
- 3. Interactive exercises
- 4. Question & Answer period
- 5. Next Steps

Solutions that move you

- 1. Descripción del proyecto
- 2. ¿Qué tipo de comentarios buscamos hoy?
- 3. Ejercicios interactivos
- 4. Preguntas y respuestas
- 5. Próximos pasos

- 1. Tổng Quan Dự Án 1. 項目概況
- 2.Chúng tôi đang tìm ý kiến đóng góp nào hôm nay?
- 3. Bài Tập Tương Tác
- 4. Hỏi & Đáp
- 5.Các Bước Tiếp Theo

- 2. 我們今天需要什麼 意見?
- 3. 互動練習
- 4. 問答
- 5. 後續步驟

Demographics/Poll

Demografía/Encuestas Nhân Khẩu Học/Thăm Dò Ý Kiến

人口統計/民調





Welcome from Caltrans

Bienvenidos de Caltrans Chào Mừng từ Caltrans

來自加州交通局(Caltrans)的歡迎







What is the project about?

transporte

la necesitan

¿De qué se trata el proyecto? Dự án này nói về cái gì?

本項目有關何事?

Reducing driving from development projects

Reducir los niveles de conducción vehicular desde los proyectos de desarrollo

Mejorar las opciones de

Giảm việc lái xe từ các dự án phát triển

減少開發項目的驅動

Improving transportation options

> Mejorar la equidad, especialmente para las comunidades que más

Cải thiện các lựa chọn giao thông

改善交通選項

Improving equity, especially for communities that need it the most

Cải thiện tính công bằng, đặc biệt là đối với các cộng đồng cần nó nhất

提高公平性,特別是 對最需要平等的社區



Project Concept

Concepto del proyecto Khái Niệm Dự Án

項目概念



New Developments Generate Driving

Los nuevos desarrollos generan más tráfico de vehículos particulares

Những Phát Triển Mới Tạo Điều Kiện Cho Việc Lái Xe

新開發項目產生駕駛量





Equitable VMT Mitigation Program

Programa de mitigación equitativa VMT

Chương Trình Giảm Thiểu Hợp Lý VMT

公平VMT緩解計劃







Transportation Solutions for the Community

Soluciones de transporte para la comunidad

Giải Pháp Giao Thông cho Cộng Đồng

社區交通解決方案



What is VMT & why is it important?

¿Qué significa VMT y por qué es importante? VMT là gì & tại sao nó lại quan trọng? 什麼是VMT, 為什麼它很重要?

Vehicle Miles Traveled (VMT) measures how much people drive; VMT is tied to air quality, health, noise, and street safety

Las Millas Recorridas por Vehículo (VMT, por sus siglas en inglés) miden cuánto conducen las personas; las VMT están ligadas a la calidad del aire, la salud, el ruido y la seguridad vial

Số Dặm Xe Đã Đi (Vehicle Miles Traveled, VMT) đo lường số người lái xe; VMT gắn liền với chất lượng không khí, sức khỏe, tiếng ồn và an toàn đường phố

車輛行駛里程(VMT)衡量人們的駕車量; VMT與空氣品質、衛生、噪音和街道安全息息相關。



How do we reduce VMT?

¿Cómo reducimos las VMT? Làm thế nào để chúng tôi giảm VMT?

我們如何減少VMT?

Safer Bike & Pedestrian Routes

Rutas para peatones y bicicletas más seguras Các Tuyến Đường dành cho Người Đi Bộ và Xe Đạp An Toàn Hơn 更安全的腳踏車和行人路線



More Affordable Transit

Transporte público más barato Phương Tiện Công Cộng Giá Cả Phải Chăng Hơn 更實惠的公共交通



Faster & More Frequent Transit

Transporte público más rápido y frecuente Phương Tiện Công Cộng Nhanh Hơn và Thường Xuyên Hơn 更快、更頻繁的公共交通



Bring Jobs, Housing & Shops Closer

Hacer que los empleos, las viviendas y los comercios estén más cercanos Đem Việc Làm, Nhà Ở và Cửa Hàng Đến Gần Nhau Hơn

拉近工作、住宅和商店之間的距離



And more..

Y otros métodos Và các phương pháp khác 以及其他方法



Why are we focusing on equity?

¿Por qué nos centramos en la equidad? Tại sao chúng tôi tập trung vào tính công bằng?

我們為何要關注平等?



Engage historically underrepresented people in the process

Involucrar en el proceso a personas históricamente subrepresentadas

Thu hút những người ít được đại diện từ trước tới nay tham gia vào quá trình này

讓史上代表性不足的人群參與此過程中

Envision and create equitable outcomes

Visualizar y crear resultados equitativos

Hình dung và tạo ra kết quả công bằng

想像並創造平等的結果



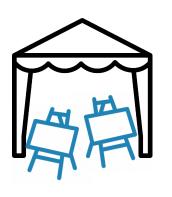
How are we engaging with people?

¿Cómo nos relacionamos con la comunidad? Chúng tôi tương tác với mọi người như thế nào?

我們如何使人參與?



Virtual Meetings Reuniones virtuales Cuộc Họp Qua Mạng 虛擬會議



Pop-Up Events
Eventos en los
vecindarios
Sự Kiện Dựng Tạm
快閃活動



Community Survey Encuesta comunitaria Khảo Sát Cộng Đồng 社區民調



Presentation to Groups
Presentaciones a grupos
Trình Bày với Nhóm
小組演講



How are we engaging with people?

¿Cómo nos relacionamos con la comunidad? Chúng tôi tương tác với mọi người như thế nào?

我們如何使人參與?







How will we use your input?

¿Cómo usaremos sus comentarios? Chúng tôi sẽ sử dụng ý kiến đóng góp của quý vị như thế nào?

我們將如何使用您的意見?

Phase 1. Summarize

Fase 1: Resumir

Giai Đoạn 1: Tóm Tắt

第1階段:總結

Phase 2. Filter / Refine

Fase 2: Filtrar y refinar

Giai Đoạn 2: Sàng lọc và

Điều Chỉnh

第2階段: 篩選並加細

Phase 3. Confirm

Fase 3: Confirmar

Giai Đoạn 3: Xác Nhận

第3階段: 確認



Other ideas for cities, county, VTA

Otras ideas para las ciudades, el condado y VTA Các ý tưởng khác cho các thành phố, quận và VTA

其他針對城市、縣和VTA的想法



Building on past studies and plans

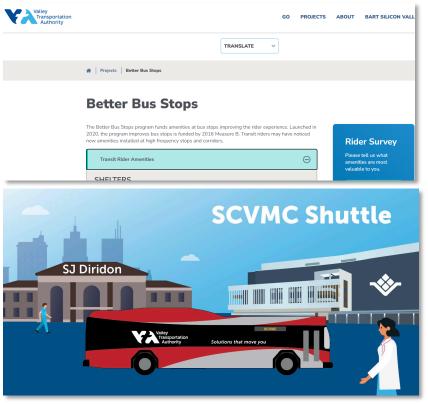
Aprovechamiento de estudios y planes anteriores Xây dựng dựa trên các nghiên cứu và kế hoạch trước đây

以過去的研究和策畫為基礎











What travel challenges do you face?

¿Qué dificultades enfrenta al transportarse? Quý vị phải đối mặt với những khó khăn đi lại nào?

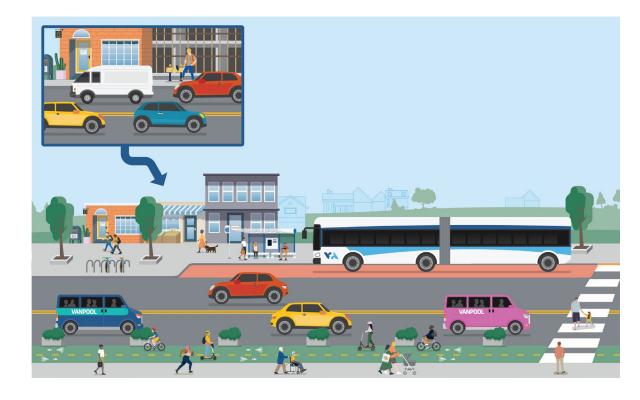
您面臨哪些交通挑戰?

Cost? Travel time? Availability? Safety? Disabilities? Reliability?

¿Costo? ¿Tiempo de viaje? ¿Disponibilidad? ¿Seguridad? ¿Discapacidades? ¿Fiabilidad?

Chi phí? Thời gian đi lại? Sự có sẵn? Sự an toàn? Tình trạng khuyết tật? Độ tin cậy?

費用?交通時間?可用性? 安全性?身心障礙?可靠性?





What would help you drive less?

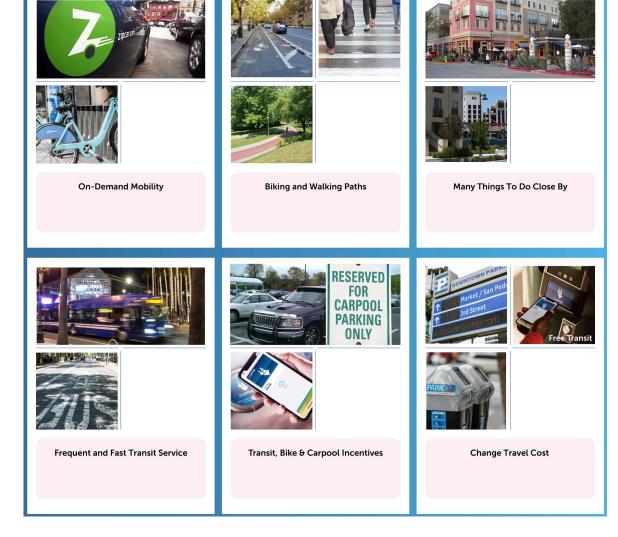
¿Qué le ayudaría a conducir menos? Điều gì sẽ giúp quý vị lái xe ít hơn? 什麼能幫助您少開車?

Here are some options to help reduce driving and expand travel options

Aquí hay algunas opciones para ayudarle a reducir la conducción y ampliar las opciones de viaje:

Dưới đây là một số tùy chọn để giúp giảm việc lái xe và mở rộng các lựa chọn đi lại:

以下是一些有助於減少駕車並擴張出行選擇的選項:





On-Demand Mobility

Movilidad a través del alquiler a corto plazo de medios de transporte Đi Lại Theo Nhu Cầu

按需交通工具







Walking and Biking Paths

Vías para caminar y utilizar bicicleta Lối Đi dành cho Xe Đạp và Đi Bộ

腳踏車道和步道







Many Things to Do Close By

Cercanía de muchas cosas para hacer Nhiều Điều Cần Làm Gần Đó

附近有很多可做的事







Frequent and Fast Transit Service

Servicio de transporte público frecuente y rápido Dịch Vụ Xe Công Cộng Thường Xuyên và Nhanh Chóng

頻繁、快速的交通服務







Transit, Bike, and Carpool Incentives

Incentivos para el uso del transporte público, bicicletas y viajes compartidos Ưu Đãi Khi Đi Xe Công Cộng, Xe Đạp và Đi Chung Xe

捷運、腳踏車和共乘獎勵







Change Travel Costs

Cambio de los costos de transporte Thay Đổi Chi Phí Vận Chuyển

改變交通費用







Interactive Exercises

Ejercicios Bài tập tương tác

互動練習

Exercise #1: What travel challenges do you face?

Ejercicio N.º 1: ¿Qué dificultades enfrenta al transportarse?

Bài Tập #1: Quý vị phải đối mặt với những khó khăn nào khi đi lại?

練習#1: 您面臨哪些交通挑戰?

Exercise #2: Which option helps solve your biggest travel challenges? What would help you drive less?

Ejercicio N.º 2: ¿Qué opción le ayudaría a resolver sus mayores dificultades al trasportarse? ¿Qué le ayudaría a conducir menos?

Bài Tập # 2: Lựa chọn nào giúp giải quyết những những khó khăn lớn nhất của quý vị khi đi lại? Điều gì sẽ giúp quý vị lái xe ít hơn?

練習#2: 哪個選項可以幫助您解決最大的交通挑戰? 什麼能幫助您少開車?



Question & Answer Period

Periodo de preguntas y respuestas Thời Gian Hỏi & Trả Lời

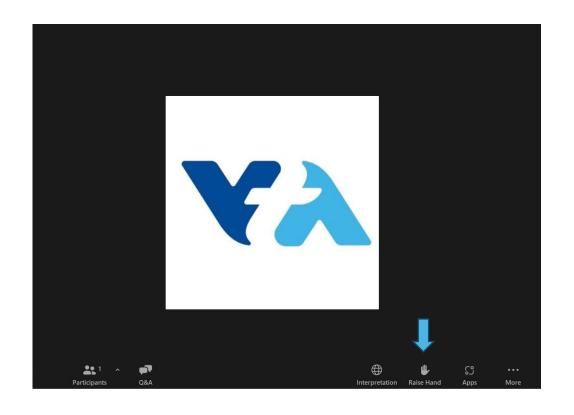
問答時間

"Raise your hand" or use Q&A to ask questions. Raise your hand by dialing * 9 if you are joining via phone.

"Levante la mano" o utilice la función de "Preguntas y Respuestas" (Q&A) para hacer preguntas. Si nos acompaña por teléfono, levante la mano marcando *9.

"Raise your hand" (Giơ tay) hoặc sử dụng Q&A để đặt câu hỏi. Giơ tay bằng cách nhấn số *9 nếu quý vị tham gia qua điện thoại.

「舉手」或用Q&A提問。如果您通過電話參與,請撥*9舉手。



How will we use your input?

¿Cómo usaremos sus comentarios? Chúng tôi sẽ sử dụng ý kiến đóng góp của quý vị như thế nào?

我們將如何使用您的意見?

Phase 1. Summarize

Fase 1: Resumir

Giai Đoạn 1: Tóm Tắt

第1階段:總結

Phase 2. Filter / Refine

Fase 2: Filtrar y refinar

Giai Đoạn 2: Sàng lọc và

Điều Chỉnh

第2階段: 篩選並加細

Phase 3. Confirm

Fase 3: Confirmar

Giai Đoạn 3: Xác Nhận

第3階段:確認



Other ideas for cities, county, VTA

Otras ideas para las ciudades, el condado y VTA Các ý tưởng khác cho các thành phố, quận và VTA

其他針對城市、縣和VTA的想法



Thank You & Next Steps

Agradecimiento y próximos pasos Cảm Ơn Quý Vị & Các Bước Tiếp Theo

感謝與後續步驟

Second phase of engagement Spring 2024; Draft recommendations & report Fall 2024; Stay tuned on www.vta.org/EquitableVMT

Segunda fase de las actividades de participación: primavera de 2024; Borrador de las recomendaciones e informe: otoño de 2024 Entérese de todo lo que pasa en: www.vta.org/EquitableVMT

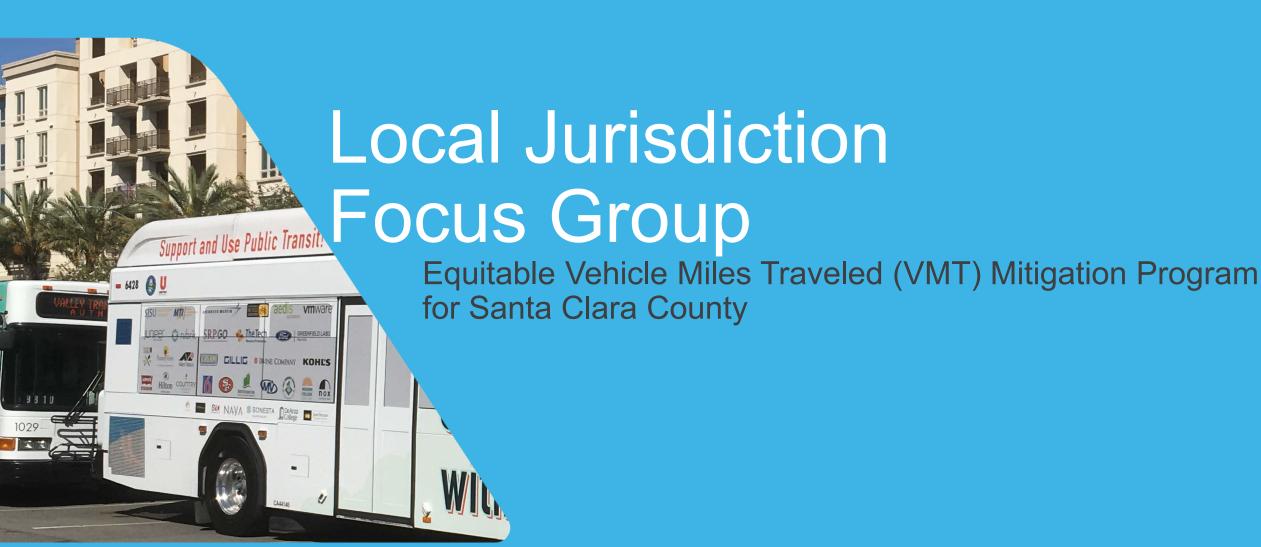
Giai đoạn tham gia lần thứ hai - Mùa xuân 2024; Những đề nghị được phác thảo & Báo cáo - Mùa thu 2024 Tiếp tục theo dõi trên www.vta.org/EquitableVMT

第二階段參與 - 2024年春季 -- 建議與報告草案 - 2024年秋季 請繼續關注 www.vta.org/EquitableVMT



Appendix 13: Local Jurisdiction Focus Group Presentation









Agenda

| 1. | Welcome / Introductions | (10:00) |
|----|-----------------------------------|---------|
| 2. | Statewide Mitigation Practices | (10:05) |
| 3. | Local Jurisdiction Survey Results | (10:20) |
| 4. | Potential VMT Reduction Needed | (10:45) |
| 5. | Wrap-Up | (11:25) |



Introductions



Solutions that move you

Introductions

Thanks for joining us!

Cupertino

Gilroy

Los Altos

Los Gatos

Milpitas

Mountain View

Palo Alto

Saratoga

Sunnyvale

County of Santa Clara

Caltrans

VTA

+Project Team





- Programs Reviewed (13)
 - VMT Exchange (4)
 - VMT Bank (2)
 - VMT Fee (2)
 - In-Process (5)





- Project Types
 - Land Development (7)
 - Transportation (2)
 - Both (3)
 - Unspecified (1)



Source: MTC



- VMT Exchange
 - Only operating VMT exchange
 - Identify VMT reduction needed
 - Fund bicycle improvements to address VMT reduction needed





Statewide VMT Mitigation Practices

- One operating VMT Exchange in the City of Escondido
- VMT Exchange is Most Common
- Most with a Defined Program Structure
- Most Not Adopted



Questions?





Local Jurisdiction Survey



- Understand local VMT practices
- Interest in a crossjurisdictional mitigation program



- 19 questions
- 14 responses from 13 unique jurisdictions
- 100% response rate except on five questions
 - Only 10 of 14 answered Q3-7





Needs

- Local VMT generation/reduction data
- Off-site VMT mitigation for nonresidential development
- VMT mitigation:
 - Access to vehicles?
 - Mobility services?





- Limits of on-site VMT mitigation
- VMT mitigation uncertainty
- Rural locations and non-residential development
- Transit effectiveness
- Relationship between CEQA mitigation and equity

Discussion



Solutions that move you

Discussion

- VMT Mitigation Ranking Results Why are these the most attractive options? (Q14)
 - Access to vehicles
 - Mobility services



? 14

 Most useful VMT mitigation measures?



- Access to Vehicles (80)
- Mobility Services (58)
- TDM Programs and Incentives (45)
- Transit Services (40)
- Land Use Strategies (37)
- Active Transportation Facilities (34)



VMT Mitigation Measures

| Mitigation Measure | Examples |
|-----------------------------|--|
| Access to Vehicles | Carshare and rental car subsidies, or e-bike subsidies |
| Mobility Services | Implemented or expanded on-demand shuttle services, shared ride van services, or bike- and scooter-share services |
| TDM Programs and Incentives | Subsidized or free transit passes, subsidized or free passes for bike- and scooter-share services or on-demand shuttles; subsidized bike leasing; or commute trip reduction services (e.g., Guaranteed Ride Home Program). |



VMT Mitigation Measures

| Mitigation Measure | Examples |
|----------------------------------|--|
| Transit Service Improvements | Increased transit service frequency, increased network coverage, implementation of transit-priority roadway treatments |
| Land Use Strategies | Transit-oriented development, increased job and residential density, increased density of housing near transit, implementation of trip-end facilities (e.g., bike parking), or Housing Relocation-Subsidy Program (HRSP) |
| Active Transportation Facilities | Expanded bike network, expanded pedestrian network, or improved street connectivity |



Discussion

• What challenges associated with collecting VMT data and monitoring VMT impact mitigation are most challenging for your jurisdiction? (Q11, Q12 & Q17)



? 11

VMT monitoring?



- Process unique to each project (4)
- Annual reporting of trip counts relative to trip reduction threshold (4)
- Annual-to-3-year* reporting of trip counts relative to project trip generation (1)
- No process (2)



? 12

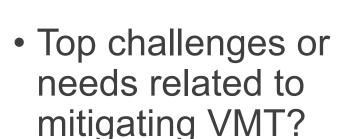
VMT mitigation process?



- Require TDM Plans (2)
- Require TDM measures from VTA VMT Mitigation Tool (2-3)
- Require adjustments to project characteristics, network improvements, parking strategies, programmatic TDM (4)
- Impose Transportation Impact Fee (2)
- No process (2)









- Measure Effectiveness Unclear (8)
- Measures Not Suitable (7)
- Limited Transportation Options (6)
- Challenging Land Use Patterns (5)
- Insufficient Funding (5)
- Lack of a VMT Policy (2)
- Lack of Good/Acceptable Data (2)
- Lack of Travel Model (2)
- Transportation Analysis Guidelines (1)



Discussion

• What are your needs and/or concerns related to VMT screening and the use of CEQA streamlining for VMT? (Q9 & Q10)







 What percent of projects screen out of VMT analysis?

- Non-Residential varies
 - 7 jurisdictions: 65-100%
 - 3 jurisdictions: 25-50%
 - Remaining 3 jurisdictions, 0% or N/A
- Residential most, 65-100%



? 10



Apply CEQA Streamlining?

- Yes (6)
- No (5)
- No, but interested (2)



Potential VMT Reduction Needed



VMT Methods – VTA Travel Model

Land Use



697,400 new residents



262,180 new employees



VMT Methods – VTA Travel Model

- Transportation Improvements
 - Transit
 - Express Lanes
 - Interchange Improvements
 - Expressway and Local Transportation Improvements







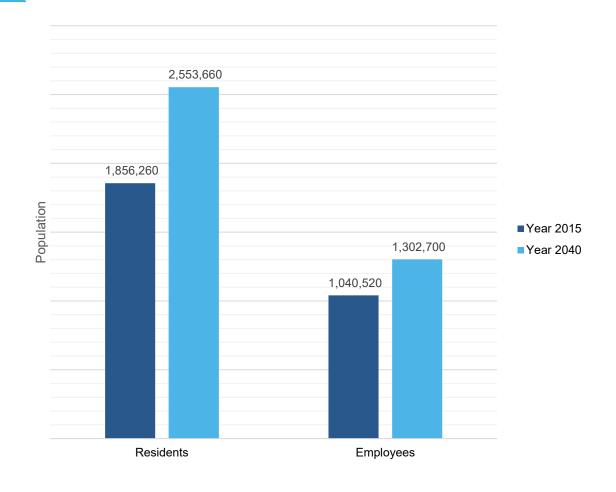
VMT Metric

- Total VMT generated per service population
 - Daily VMT
 - All vehicle trips, vehicle types, and trip purposes
 - All land use types
 - Service population is residents and employees



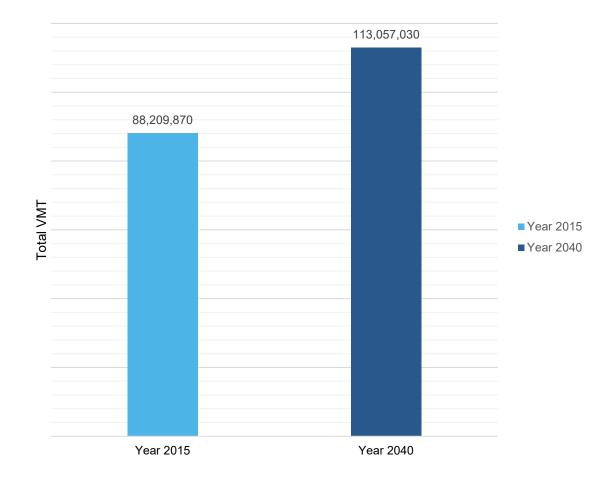


Santa Clara County Service Population



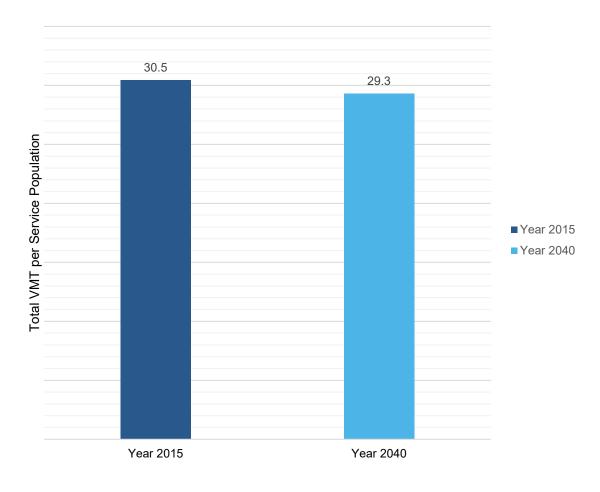


Santa Clara Countywide Total Daily VMT



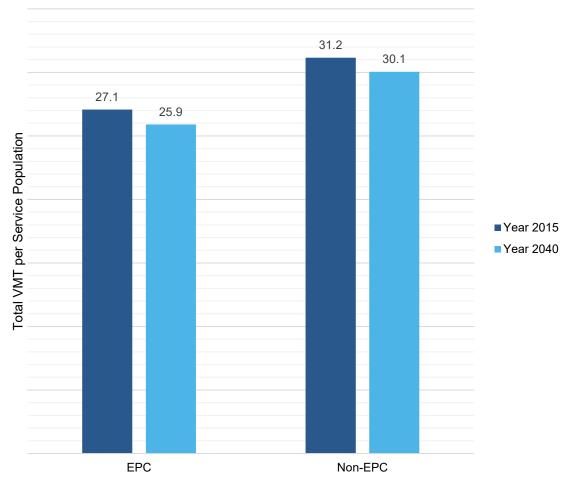


Santa Clara Countywide Total Daily VMT per Service Population





Total Daily VMT per Service Population for Non-EPC and EPC Areas





Potential VMT Reduction Needed

We estimated how much VMT reduction would be needed under four different scenarios

| | VMT Target set at 85% of Baseline Rate | VMT Target set at 70% of Baseline Rate |
|---|--|--|
| VMT Target applies only to future development | Scenario 1 | Scenario 2 |
| VMT Target applies to everything (both existing and future population and jobs) | Scenario 3 | Scenario 4 |



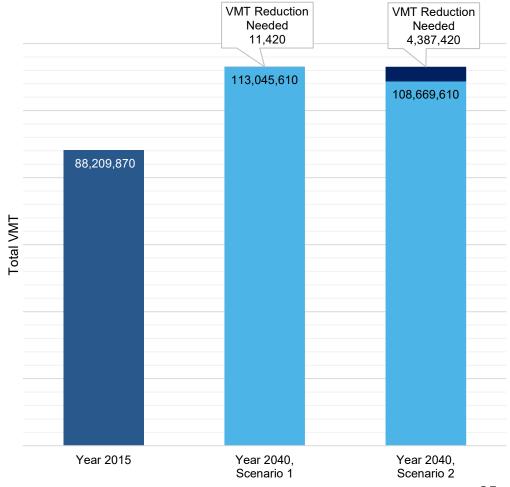
VMT Targets Applied Only to Future Development

Scenario 1:

Target = 85% of Baseline

Scenario 2:

Target = 70% of Baseline





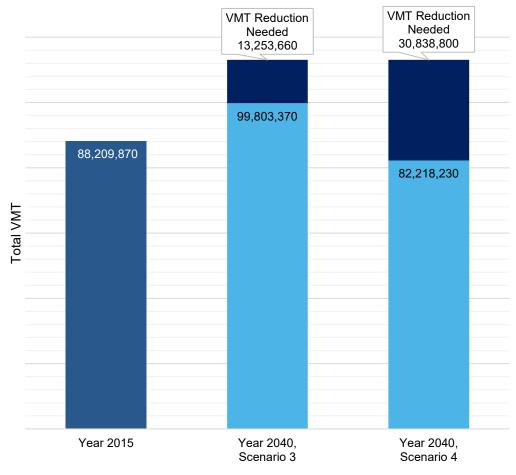
VMT Targets Applied to Both Existing and Future Development

Scenario 3:

Target = 85% of Baseline

Scenario 4:

Target = 70% of Baseline



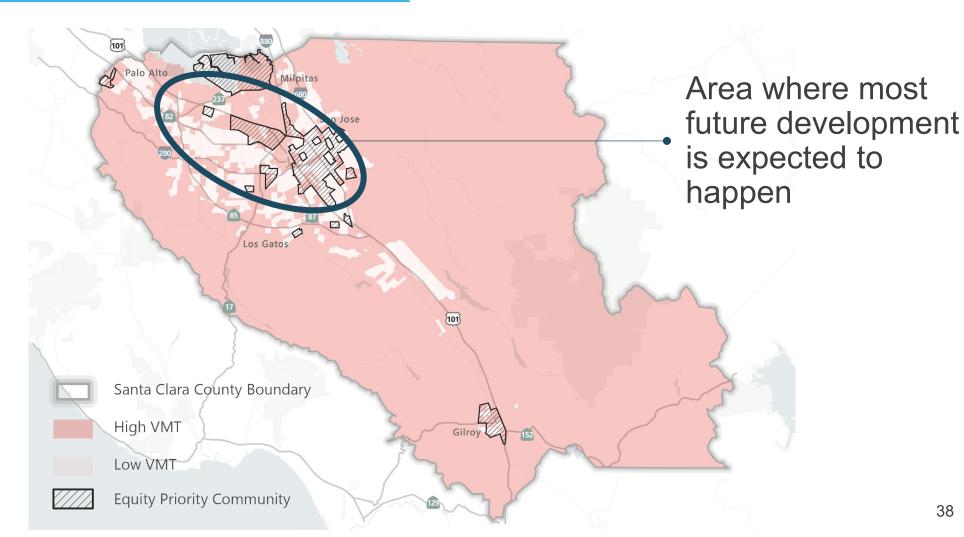


Observations about Future VMT

- Countywide VMT rates are expected to decline as population increases
- EPC areas tend to have lower VMT rates than non-EPC areas
- VMT rates in EPC areas are expected to decline somewhat faster than the VMT rates in non-EPC areas



Future Development Areas





Observations about Potential VMT Reductions

- Future development is anticipated to occur throughout the north-central county in a mix of high and low VMT areas
- Development that occurs in high-VMT areas is more likely to trigger significant VMT impacts and require mitigation
- As targets become more aggressive, more VMT reductions would be needed



Questions and Discussion

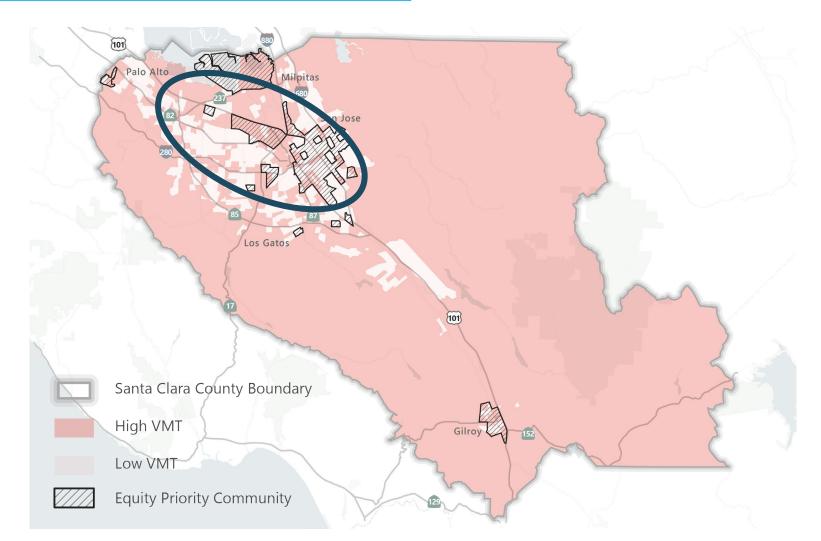


Questions about Potential VMT Reductions

- Target VMT Rate:
 - Should it be set at 85% of the Baseline Rate?
 - 70%?
 - Something else?



Potential VMT Reduction Needed



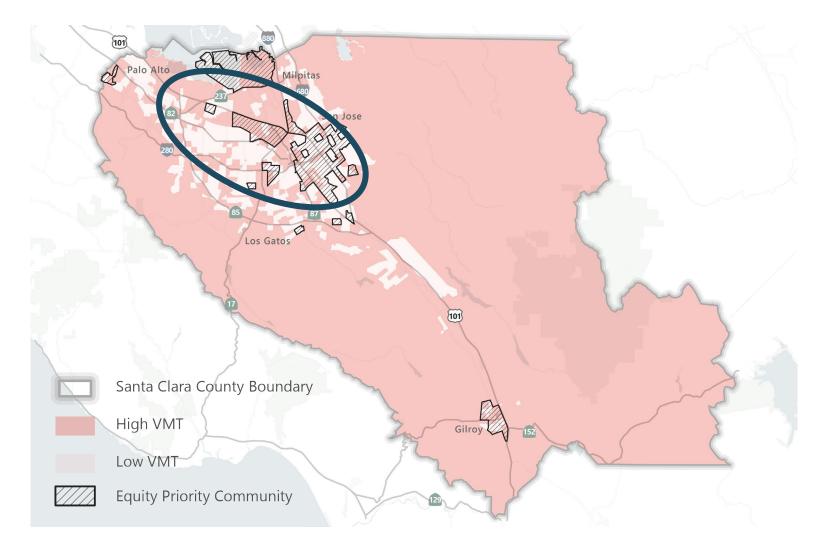


Questions about Potential VMT Reductions

- Should VMT reduction strategies be focused in localized high-VMT areas?
- Should VMT reduction strategies be focused in EPC areas?
- How should the program consider that some EPC areas are low-VMT while others are high-VMT?



Potential VMT Reduction Needed

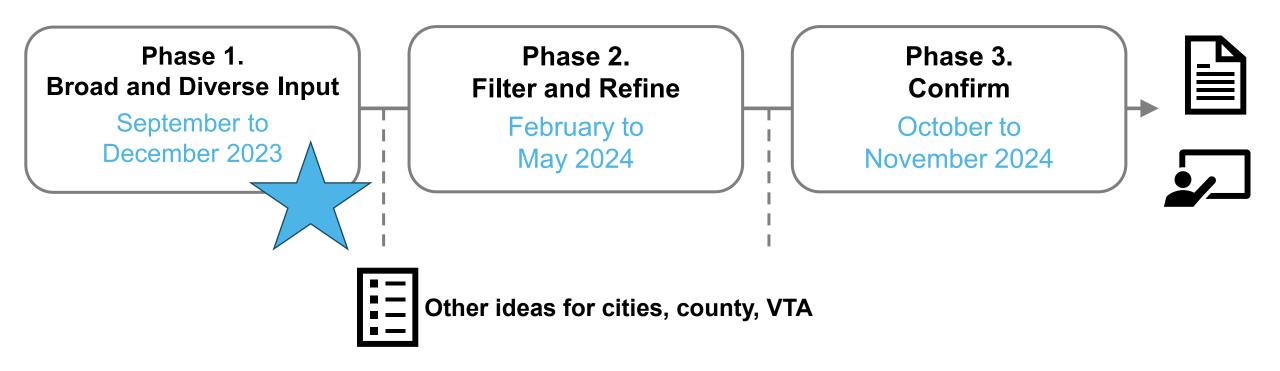




Wrap up



How will we use your input?





What's next?

- Phase II Filter and Refine
- Presentation to Jurisdiction contact us if interested



How can you help?

- Stay up to date
 - www.vta.org/EquitableVMT
- Share upcoming events listed on website
- Share the community survey
 - www.vta.org/vmtsurvey







Thank You

Contact: Robert Swierk, VTA at Robert.Swierk@vta.org



Scan for the project website



Solutions that move you

Appendix I4:
Community
Based
Organizations
Focus Group
Presentation







Agenda

- Introductions
- What is This Project About?
- Discussion: How Can We Reduce Driving and Improve Travel Options?
- Questions
- Wrap Up



Introductions



Solutions that move you

Introductions

- Fehr & Peers
 - Taylor McAdam
 - Alexandra Lee-Gardner

- Catalyze SV
 - Rocio Molina
- Mariposa Planning
 - Chris Lepe

- VTA
 - Rob Swierk
 - Laura Posadas



Introduce Yourself

Name

Organization

What motivated you to participate in this project?



What is This Project About?



Project Goals

We want to reduce driving and expand travel options for people to get around Santa Clara County.

We want to do this in a way that:

- Works across jurisdictional lines
- Improves equity, especially for communities that need it the most



How are we developing an equitable program?



Equitable Process

Engage historically underrepresented people in the process

Equitable Outcomes

Improve travel options for all Santa Clara County residents and workers, but especially for those living in communities with fewer resources



How are we engaging with people?



10 Pop-Up Events at public gathering places or as part of community events



Community Surveys during 2 Phases



3 Community Meetings



3 Community Focus Groups,



4 Technical Focus Groups





Presentations to VTA Committees & Board

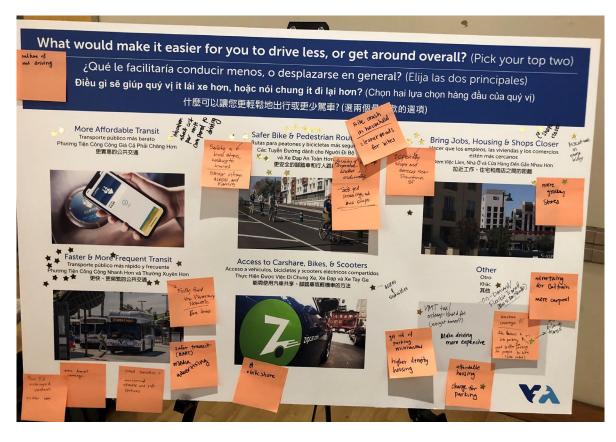


Presentations at City/County meetings (upon request)



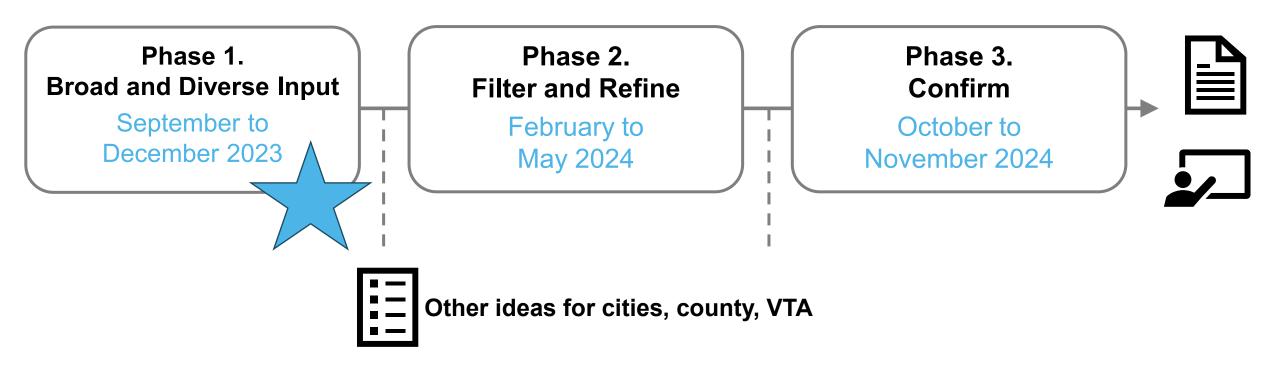
How are we engaging with people?







How will we use your input?





What are your communities' biggest transportation challenges? (Discussion)



What travel challenges do your community members face?

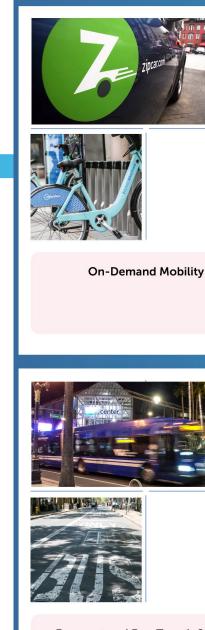
- Cost
- Travel Time
- Availability
- Safety
- Accessibility
- Reliability

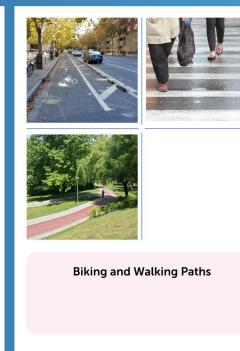




Projects that can Reduce Driving

Could any of these projects help solve your communities' biggest transportation challenges?













Frequent and Fast Transit Service





Transit, Bike & Carpool Incentives





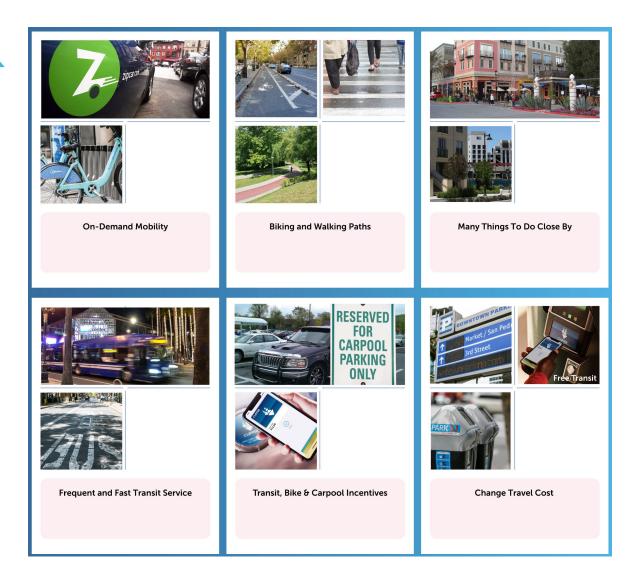


Change Travel Cost



Discussion

- What are the biggest travel challenges that your community members face?
- Which options help solve your communities' biggest transportation challenges?





Questions?

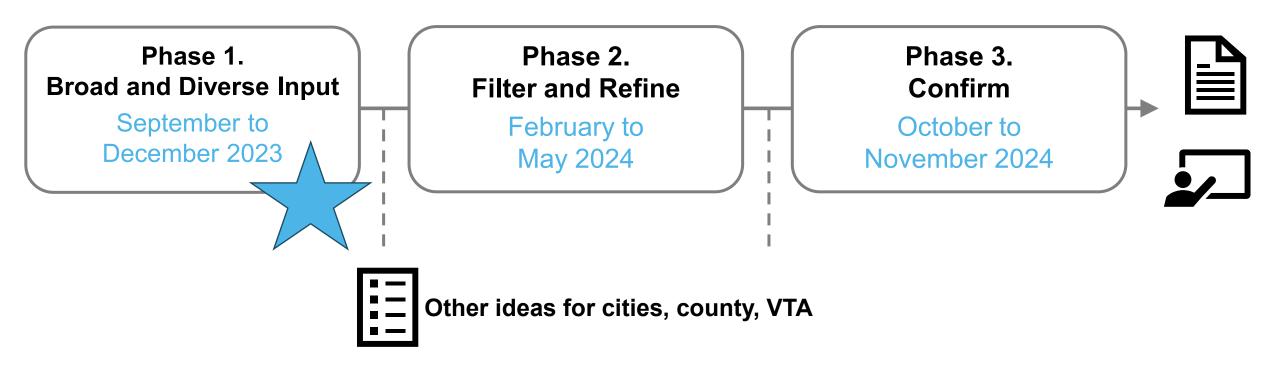


Wrap up



Solutions that move you

How will we use your input?





What's next?

- Phase II Filter and refine
- Post Focus Group survey (< 5 minutes)
 - Please fill out to receive a \$50 Clipper Card

Presentation to Organizations – contact us if interested



How can you help?

- Stay up to date
 - www.vta.org/EquitableVMT
- Share upcoming events listed on website
- Share the community survey
 - www.vta.org/vmtsurvey







Thank You

Contact: Robert Swierk, VTA at Robert.Swierk@vta.org



Scan for the project website



Solutions that move you

Appendix J4: VMT Mitigation Reduction Informational Videos



Informational Videos

The project team developed three informational videos about vehicle miles traveled (VMT) mitigation which were posted by the VTA for public consumption. These two videos are described and linked below. Both may be accessed via the VTA Equitable VMT Mitigation Program for Santa Clara County project website (https://www.vta.org/projects/equitable-vmt-mitigation-program-santa-clara-county) or direct links below.

"Project Introduction"

This video introduces the purpose of the project, what VMT is (briefly), how we can reduce VMT (briefly), why the project is focused on equity, and how the community can benefit from the project and get involved.

Link: https://youtu.be/Wj9dUl3r-9w?si=ktRlKzswPainL 0D

"What is VMT and Why Does it Matter?"

This introductory video presents the ABCs of VMT. It explains that VMT is a measure of the total amount of driving that happens in an area and how recent changes in state law have required cities and counties to use VMT to evaluate new development. It presents that VMT is related to important issues such as greenhouse gas emissions, air quality, noise pollution, and street safety. Lastly, the video describes how lowering VMT may improve both quality of life and the environment.

Link: https://youtu.be/Ynips306aFc?si=kreCc5J8nvGf5uQ8

"Why It's Important to Reduce VMT"

This second video dives deeper to describe that the transportation sector is the largest greenhouse gas emitter in California. It presents how reducing the amount of driving, or VMT, would help the County, member jurisdictions, and state as a whole, meet climate and air quality goals. The video includes a primer on VMT background including illustrations of how VMT is calculated for different trip types and purposes.

Link: https://youtu.be/ICPqJf3Y8XA?si=mUYZaxNrOWACPuPS



Appendix J: Phase 2 -Filter and Refine



Appendix J1:
Phase 2
Community
Engagement
Summary
Memorandum



Phase 2 Engagement Feedback Summary

Phase 2 Engagement Goals

- Solicit specific input on the three example VMT reduction projects
 - E-Bike Subsidies
 - Bus Speed Improvements
 - Enhanced Vanpool
- Gather input on the program sponsor and program structure
 - Sponsors:
 - VTA
 - Joint Powers Board
 - New agency
 - Private entity
 - Program structure
 - VMT impact-based fee
 - VMT exchange
 - VMT bank

Phase 2 Events

The project team hosted the following events as part of Phase 2:

- 1 VTA staff workshop
- 1 Local jurisdiction workshop
- 1 CBO focus groups
- 1 Virtual community meeting
- 2 In person workshops
- Additional presentations to organizations and VTA committees

Phase 2 Feedback

Example VMT Reduction Projects

At each outreach event, we shared details about three example VMT reduction projects and asked the community if these projects would be useful to your community and how to better improve them. The results of the engagement are described below as follows.

- **Favorability Score**: Based on community and local jurisdiction/VTA staff responses of support and answers on whether the projects were useful to them, each project type was assigned a favorability score of high, medium, or low.
- Project Feedback/Needs: We heard specific feedback that could improve the
 usefulness or value of the example VMT reduction projects. Feedback included ideas
 about the project features that could further reduce VMT as well as feedback to better
 meet community needs. The feedback has an annotation noting the category of the
 feedback which is included as follows:
 - <u>V</u>MT Reduction: Additional VMT reduction projects or features of a VMT reduction project that may support further VMT reductions.
 - <u>Equity</u>: Identifies a need or consideration to better serve the Equity Priority Community population or area.
 - <u>C</u>o-benefits: Co-benefits that can help justify funding, planning, and implementation of the feasible VMT reduction measures. This includes improved air quality, energy and fuel savings, water conservation, enhanced pedestrian, or traffic safety, improved public health, improved ecosystem health etc.
- Supportive or Additional Projects: These are supportive or additional projects that community members identified as necessary to ensure the usefulness of the example VMT reduction projects. Supportive projects require the implementation of entirely separate projects aimed at complementing the VMT reduction projects.

E-Bike Subsidies

Favorability score - high

- Many see e-bikes as great alternative travel mode to replace car trips
- Many feel that solving the cost factor will see an increase in use/e-bike consumption

Project Feedback/Needs

- Require or offer for those who register to participate in bike education courses. Could be hosted in partnership with Silicon Valley Bicycle Coalition or other partner organizations (C)
- Partner with local CBOs (e.g., Peninsula Clean Energy, which already has a program) to administer and market subsidies (E)

- Organizations could advertise program and help with registration and the process of procuring the bikes (E)
- Partner with online and in-person e-bike stores to help reduce research and streamline purchase processes (E)
- Ensure that program allows multiple subsidies per household (E)
- Consider expanding program to include e-scooters and other electronic micro-mobility (Limit class of e-bikes applicable as part of this program, include the cost of helmet in subsidy) (V,C)
- Include welcome packet with information about existing programs such as Bay Wheels, the VTA County bike map, and Link program access (C)
- Consider marketing to young folks through youth and school programs (C)
 - Consider who is the target age (C)
 - Should there be an age minimum? (C)
- Include as TDM strategy option for new developments (V)
 - Building manager could help to enroll residents/employees in program (C)
 - Developer required to share program information as part of "welcome packet" (C)
- Consider expanding program to middle income families as well (V)
- Plan for additional bike parking inside bus or consider alternative ways to store buses on bikes that are easier for heavier bikes (C)
- Consider re-framing the project to include discounted or free bikeshare membership and discounted e-bike rides. Bay Wheels already has a discounted membership program, but the eligibility requirements may be a barrier for some people who could benefit from it, so this program could offer additional discounts on top of the Bay Wheels for All program. Although this project is expected to have minimal VMT reduction it would reduce the need for bike storage and ongoing bike maintenance (E,C)
 - Could also include subsidized 1-day free access to bikeshare to allow people to "test ride" e-bikes (C)

Supportive or Additional Projects

- Expand bike network: Access to adequate facilities was one of the most frequent concerns from the community. We heard that people would be more comfortable biking and using an e-bike if they felt there was a safe and comfortable bike network. This concern was more prevalent in EPC areas such as East San José that have fewer high quality bike facilities. While this project is projected to have a low VMT impact, there are other safety and equity benefits to a better bike network. Suggest prioritizing bike improvements in EPC areas develop a connected and low stress bicycle network. This should be done before or coinciding with the e-bike subsidy project.
- Increase bike parking and e-bike charging: Almost every group voiced concerns about the lack of secure and convenient e-bike parking. This is particularly concerning for EPC populations that may have fewer secure spaces at their house to store e-bikes

or may not be able to support charging facilities. Suggest existing developments provide adequate e-bike charging and bike parking and consider changing bike parking requirements for new developments to better meet the needs of e-bikes. Consider locations to provide public bike parking/charging and opportunities to add parking/charging facilities to new projects. This should be done before or coinciding with the e-bike subsidy project.

- Upgrade planning and regulations: The influx of e-bikes and other emerging micromobility technologies comes with new safety considerations for bicyclists, pedestrians, and vehicles. Suggest looking for opportunities to develop regulations to e-bike and other micromobility speeds and improve safety conditions on facilities. Additionally work to consider the needs of e-bike and micromobility users when designing and reviewing development plans and street improvement plans such as ensuring adequate bicycle parking and charging locations. This should be done before or coinciding with the e-bike subsidy project.
- Bikeshare subsidies: Consider discounted or free bikeshare access (including free e-bikes) to use existing bikeshare services. This reduces need to bike storage and maintenance and may increase ease of use for some folks. This could be done in addition to the e-bike subsidy project. Bay Wheels already has a discounted membership program, but the eligibility requirements may be a barrier for some people who could benefit from it, so this program could offer additional discounts on top of the Bay Wheels for All program. This would reduce the need for bike storage and ongoing bike maintenance.

Bus Speed Improvements

Favorability score - medium

- Many see benefits of more reliable/speedy service
- People enjoyed side benefits of complete street design that will improve protection for bike lanes, connect existing bike lane gaps at bus stops, and reduce vehicle speeds

Project Feedback/Needs

- Include adequate lighting at bus boarding islands (C)
- Ensure bus boarding islands are ADA accessible and a positive experience for those with disabilities (E,C)
- Design bus only lanes to limit private vehicle access (red painted lanes, better signage, more enforcement) (V)
- Consider adding bike lockers or other bike parking options at bus boarding islands (see e-bike subsidies project feedback) (C)
- Suggested additional locations could include El Camino Real, 522/22 route, Story Road (San José), Senter Road (San José), King Road (San José), 1st Street (Gilroy), Monterey Road (South County), Tully Road (San Jose) (V)

Supportive or Additional Projects

- Expand service: Many EPC members shared they would not benefit from this project because the service did not go where they wanted to go when they wanted to go there. This project may have a higher VMT reduction if paired with projects to expand transit service.
 - Community members also shared that transit service increases that would bring a bus from low frequency to high frequency (i.e., 15-minute headways) would be more impactful to their travel habits (i.e., they might shift from driving) than a 5-minute travel time savings on a route that already runs frequently. This should be done before or coinciding with the bus speed improvement project.
- **Mobility hubs**: Consider creating mobility hubs with access to transit and first/last mile services. While not directly related to this project, we heard lots of support for this idea.
- Transit subsidies: Cost or perceived cost continues to be a barrier to riding transit for some folks. While a transit subsidy might not be the right fit for this program, consider supplementing this program with a transit subsidy program (or expand the Clipper START Pilot Program) to reduce the cost of transit for low-income riders. Alternatively, consider allowing youth and seniors (or riders of all ages) to ride for free. This should be done before or coinciding with the bus speed improvement project.

Enhanced Vanpools

Favorability ranking - medium

 Many see the advantages of vanpooling as a way to reduce commute stress and improve commute time

Project Feedback/Needs

- Suggest extensive advertising of program to raise awareness (C)
 - This could include paid digital ads, billboards, and ads on buses (C)
 - Partner with CBOs and target employers (healthcare, hotel housekeeping, agriculture, etc.) to spread information about the program (E, C)
- Consider partnering with organization or employer as organizer (C)
 - CBO or employer helps to facilitate vanpool, organize carpool groups, and help to find place to park overnight (E, C)
- Include information about VTA's existing guaranteed ride home program for those signing up or interested in the program (C)
- Allow vanpools to use express lanes. Market vanpool program through express lane program. (V, C)
- Include purchase of zero emission vehicles (C)
- Allow vans to park at transit centers, park and ride lots, or other public parking areas overnight (C)

 Partner with employers to allow for reserved parking or reduce parking price to park van at employment location (V,C)

Supportive or Additional Projects

• Shuttle Service/On-Demand Shuttle: We heard from nearly all groups they would prefer a shuttle program instead of or in addition to the vanpool project. A fixed shuttle or on-demand shuttle would better fill the transit gaps that exist in the county and provide access to additional destinations beyond places of work. The shuttle program was also more favorable because it is more convenient and has fewer logistic complications compared to a vanpool. We heard strong support for shuttles that were driven by a paid driver as they were perceived to be more reliable and easier to coordinate logistics compared to vanpools that would be driven by fellow co-workers or commuters. Consider a shuttle and/or on-demand shuttle program that connects residential neighborhoods to major employment centers, shopping areas, health centers, and main streets or downtown areas. Consider providing shuttle access to engagement events and council meetings. This program could also provide connections to other counties. Consider developing an app and/or phone line to allow for ease of use. This could be done in addition to the enhanced vanpool project.

Program Sponsor and Structure

In addition to the example VMT reduction projects, we also asked participants in the VTA workshop and local jurisdiction workshops to give input on the program sponsor and structure. We asked participants to rank the sponsor and structure options from most desirable (1) to least desirable (2) and provide input on their reasoning. The rankings and additional considerations are summarized below. For the local jurisdiction feedback, each jurisdiction present at the workshop was assigned one vote and we quantified the vote rankings with higher scores representing a more desirable option. Since the VTA workshop was made up of VTA staff, quantifying the ranking with scores was not appropriate; however, a general most to least desirable ranking is included.

Program Sponsor

Table 1: Program Sponsor

| Rank | VTA Results | Local Jurisdiction Results |
|------|--------------------|--------------------------------|
| 1 | VTA | VTA (40 points) |
| 2 | Joint Powers Board | Joint Powers Board (23 points) |
| 3 | New Agency | New Agency (18 points) |
| 4 | Private Agency | Private Agency (14.5 points) |

Fehr & Peers, 2024.

Equitable VMT Mitigation Program for Santa Clara County July 3, 2024

Supplementary to the rankings in **Table 1**, VTA and local jurisdiction staff shared feedback about how they ranked the sponsors and provided reasoning for why they thought VTA was the most desirable sponsor.

VTA Staff Feedback for VTA as the Sponsor

- VTA is countywide organization responsible for delivering capital projects
- VTA has the countywide perspective and already coordinates countywide
- VTA would have fewer administrative costs since much of this structure is already set up at VTA
- While VTA is set up to administer this program, there would be costs associated with administration. VTA should be the sponsor but would need to consider the cost and staffing implications

Local Jurisdiction Staff Feedback for VTA as the Sponsor

- Programs can be countywide
- VTA as a Congestion Management Agency (CMA) has countywide responsibilities and could be set up to administer this type of program. They have the staffing and existing coordination to take on this program
- Removes burden and obligation from local jurisdictions
- Ensure that there is transparent oversight that is separate from VTA
- Balance mitigation actions and funding distribution to benefit the entire county over specific cities
 - Consider return to source (i.e., the extent to which mitigation dollars can be applied outside of the jurisdiction in which they are generated.)
- Consider how VTA will staff. Will management/administration fees be covered in the exchange fee?

Program Structure

Table 2: Program Structure

| Rank | VTA Results | Local Jurisdiction Results |
|------|-------------|----------------------------|
| 1 | Bank | Exchange (23 points) |
| 2 | Exchange | Bank (22 points) |
| 3 | Fee | Fee (16 points) |

Fehr & Peers, 2024.

Supplementary to the rankings in **Table 2**, VTA and local jurisdiction staff shared feedback about how they ranked the structure and provided reasoning for why they thought either a bank or an exchange was the most desirable structure. Since VTA staff ranked the VMT bank as the most desirable option, their feedback was focused on a VMT bank, while local jurisdiction staff feedback was focused on a VMT exchange program, which was the highest ranked option for local jurisdiction staff.

VTA Staff Feedback for a VMT Bank

- This allows the funding to go to larger projects that are funded by many developers over time. This can be preferable to one developer needing to fully fund a mitigation action.
- Exchange and bank ranked relatively close with slightly more preference for a bank over exchange. There was favor for starting with an exchange and switching to a bank later in the program life.

Local Jurisdiction Staff Feedback for a VMT Exchange

- Can accommodate a range of projects. This would help support smaller cities by addressing VMT mitigation county-wide rather than location specific.
- In support of exchange structure but anticipate concerns about administration and explaining to the public and decision-makers. Suggest developing brochure on how the exchange will work to share with developers.
- Consider moving to a bank in the long term to allow for a broader set of VMT reduction projects. Bank would better meet the needs of smaller development projects rather than requiring they fund an expensive VMT reduction project that is larger than the VMT impact because there are no projects that are scaled to their need.
- Concerns that applicants will need to fully fund a mitigation action. How will "fair share" be determined.

Questions about a VMT Exchange from VTA and Local Jurisdiction Staff

Given the newness of VMT mitigation programs, the questions listed below about a VMT exchange are a blend of legal considerations and practical considerations. Statutory requirements only provide general guidelines, and since there is no directly relevant case law available there is limited guidance that can be given at this stage. In practice, many of these

Equitable VMT Mitigation Program for Santa Clara County July 3, 2024

questions will be resolved through discussion and negotiations between the program sponsor and the lead agencies.

We have grouped these questions into three categories to address what will be determined within our framework and what will be resolved in later stages of the program creation.

Legal requirements are aspects of the program framework prescribed by state, regional or local regulations. These questions will be addressed in the report and alluded to in the executive slide deck. It should be noted, there is minimal precedent to draw from related to regional VMT mitigation programs so responses will speak to the overarching requirements for the program. Exact specifications for how the program meets these requirements will be negotiated by the program sponsor and lead agencies in concert with legal counsel when creating the legal documents for the program.

- Did SB 743 require a VMT bank?
- What are the administrative and reporting requirements (for VMT Exchange, etc.)?
- Could funds go toward a percentage of a project? / What does "applicants must fund entire mitigation" mean?
- Why does the VMT bank have more administrative requirements?

Administrative Procedures are details about how and by whom the program will be administered. Similar to legal requirements, foundational elements of the administrative process will be defined in the report and alluded to in the executive slide deck, while some of the specifications will need to be negotiated by the program sponsor and lead agencies in concert with legal counsel when creating the legal documents for the program.

- What would an example of the exchange's eligibility criteria to add a new action be? (Known and options will be included in Report)
- How often would the pre-qualified list be updated? (Mentioned in Report, but specifics will be determined later between the program sponsor and lead agencies)
- How will the reduction be calculated for the projects/actions? (Assuming this is referring to post-implementation.) (Mentioned in Report, but specifics will be determined later between the program sponsor and lead agencies)

Other includes all other questions related to the program. These are likely items that can be discussed informally.

- Can the VMT mitigation be calculated/measured as GHG emission reductions?
- Can you explain further the "first-in problem" that the most cost-effective measures will be funded first?

Phase 2 Event Summary

This section summarizes who attended the Phase 2 events. For the community workshops, we also detail some demographic information about attendees including age and race. At in-person and CBO workshops, out demographic information is based on our observations. At the virtual community meeting, we collected demographic and commute mode information via a Zoom Poll. This summary reflects events through the end of June 2024; the project team held several more in-person workshops, pop-up tabling events and meetings with other organizations, largely focusing on EPC populations, before the end of Phase 2.

Table 3 shows the number of participants for Phase 2 by event type.

Table 3: Event Summary

| Event Type / Quantity | Participants | | |
|--|---|--|--|
| In-Person Community Workshops (2) | 24 community members | | |
| Virtual Community Workshop (1) | 18 community members | | |
| CBO Staff Workshop (1) | 14 staff from 12 organizations | | |
| Local Jurisdiction Staff Workshop (1) | 21 staff from 12 of 16 local jurisdictions (+Caltrans) | | |
| VTA Staff Workshop (1) | 13 staff from 4 divisions | | |
| Discussion Item at VTA Committee Meetings (5) | 6 public comments and 20+ Committee comments at March 2024 TAC, CAC, BPAC, PAC and CMPP | | |
| Meetings with Individual Organizations and Jurisdictions | 2 meetings with organizations (+1 scheduled); 2 meetings with cities (+1 scheduled) | | |

Source: Fehr & Peers, 2024.

Age

- In-Person Community Workshops: Mostly older adults and seniors. Gilroy had a better mix of younger and older adults.
- Virtual Community Meeting: As shown in **Table 4**, 31% of Zoom poll participants were between 26 and 35 years of age. About 44% were over 45 years old.
- CBO Staff Workshops: Mostly adults. Missing young adults under ~25-30 years old.

Table 4: Age of Virtual Community Meeting Participants

| Age | Virtual Mee | ting | Santa Clara County | | |
|------------------------------------|-------------|---------|-----------------------|---------|--|
| | Count | Percent | Count | Percent | |
| less than or equal to 25 years old | 1 | 6% | 544,607 | 30% | |
| 26-34 years old | 5 | 31% | 298,826 | 16% | |
| 35-44 years old | 3 | 19% | 268,938 | 15% | |
| 45-64 years old | 5 | 31% | 476,430 | 26% | |
| 65 years old and older | 2 | 13% | 244,449 | 13% | |
| Total | 16 | 100% | 1,833,250 | 100% | |

Notes:

Source: Fehr & Peers, 2024.

Race/Ethnicity

We gathered race and ethnicity information through observation and asking optional Zoom poll questions:

- In-Person Community Workshops:
 - East San José was a mix of White, Asian, and Hispanic participants
 - Gilroy was a mix of White and Hispanic participants.
- Virtual Community Meeting: As shown in **Table 5**, 38% of Zoom poll participants identified as White, 31% identified as Asian, and 31% did not specify.
- CBO Staff Workshops: Represented a range of organizations including organizations that focus in primarily Hispanic or South Asian communities. We did not have any representation from the Black community or Vietnamese communities.

^{1.} American Community Survey, 2022 1-year.

Table 5: Race/Ethnicity of Virtual Community Meeting Participants

| Age | Virtual Meeting | | Santa Clara County | |
|---|-----------------|---------|-----------------------|---------|
| | Count | Percent | Count | Percent |
| White | 6 | 38% | 511,254 | 27% |
| Black or African American | | | 41,239 | 2% |
| American Indian and Alaska Native | | | 2,932 | 1% |
| Asian | 5 | 31% | 753,965 | 40% |
| Native Hawaiian and Other Pacific Islander | | | 6,534 | 1% |
| Hispanic/Latino | | | 462,494 | 24% |
| Some other race | | | 92,527 | 4% |
| Not Specified | 5 | 31% | - | - |
| Total | 16 | 100% | 1,870,945 | 100% |

Notes:

Source: Fehr & Peers, 2024.

Commute Travel Modes

We asked Virtual Community Meeting participants to identify the travel mode for their work commute or a trip they made frequently (over two trips per week) in a Zoom Poll. The results are presented below in **Table 6** Generally, most participants noted they drove alone.

Table 6: Commute Travel Modes of Virtual Community Meeting Participants

| Mode | Virtual Community Meeting | | |
|------------------|---------------------------|---------|--|
| | Count | Percent | |
| Personal Vehicle | 6 | 38% | |
| Transit | 1 | 6% | |
| Bike | 5 | 31% | |
| Walk | 1 | 6% | |
| Not Specified | 3 | 19% | |
| Total | 16 | 100% | |

Source: Fehr & Peers, 2024.

Discussion Topics

Future discussion for the debrief includes discussing how the feedback summarized above fits into the framework and what the future of Phase 3 will look like.

^{1.} American Community Survey, 2022 1-year.

How will we use the feedback?

There was some support for all VMT reduction projects, therefore we will likely include all three VMT reduction projects in the report. We will also describe considerations by VMT reduction project type and document the level of support for future decision makers.

Potential considerations by VMT reduction project type

- Subsidy programs
 - Offer education courses
 - Partner with CBOs for marketing and support
 - Allow multiple subsidies per household
 - Share materials on supportive programs that exist (such as Guaranteed Ride Home or Bike locker rental info)
- Capital projects
 - Plan at community scale
 - Consider safety and complete street best practices
 - Universal design
- Services
 - Consider avenue to advertise program and raise awareness
 - Partner with CBOs to market and administer
 - Consider affordability and cost

What is the most effective way for us to confirm the VMT Mitigation Program Specifications in Phase 3?

- Goal of Phase 3:
 - Confirm program framework and provide feedback on the draft report
- Meeting types in Phase 3:
 - Virtual meeting
 - Meetings with others
- Key conversations for Phase 3:
 - Who is the primary audience?
 - How can we structure the virtual community meetings in Phase 3?

Appendix J2: Community Workshop Presentation





Programa de mitigación de VMT equitativo de VTA Chương trình giảm thiểu VMT mang tính công bằng của VTA

VTA 公平 VMT 缓解计划

Phase II Community Meeting

Reunión de la comunidad dentro de la Fase II Cuộc Họp Cộng Đồng Giai Đoạn II

第二阶段社区会议

May 2024 Mayo de 2024 Tháng 5 năm 2024 2024年5月



FEHR PEERS

Language Channels / Interpretation Canales de Idiomas / Interpretación Kênh Ngôn Ngữ/Thông Dịch 語言頻道 / 口譯

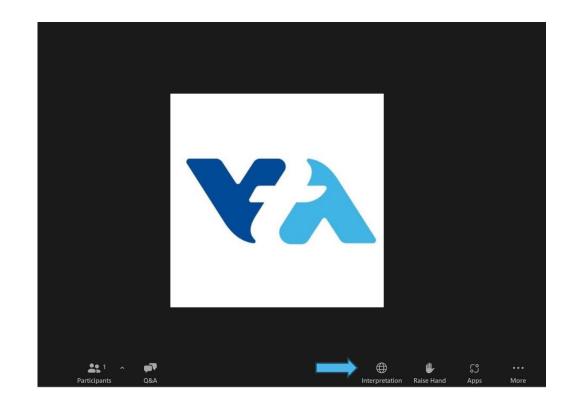
Click Interpretation .

Click the language that you would like to hear; everyone should pick; do not use the default.

Haga clic en Interpretación. Seleccione el idioma que le gustaría escuchar. Todos deben elegir una de las opciones; no utilice el idioma predeterminado al inicio de la reunión.

Nhấp vào Interpretation (Thông Dịch). Chọn ngôn ngữ quý vị muốn nghe. Mỗi người nên chọn một ngôn ngữ; không sử dụng ngôn ngữ mặc định.

點擊「口譯」 選擇您想聽到的語言。每個人都應選擇一個語言;不要使用預設。



Agenda Agenda Chương Trình 議程

- Welcome and introductions
- How reducing VMT benefits you
- What we heard from you
- What we did with the input
- Clarifying Questions
- Small Groups: your input on potential project types
- Next steps



- Bienvenida y presentaciones
- Cómo les beneficia reducir las millas recorridas por vehículo (VMT, por sus siglas en ingles)
- Lo que hemos escuchado de ustedes
- Qué hicimos con sus comentaros
- Preguntas aclaratorias
- Grupos pequeños: Su opinión sobre posibles tipos de proyectos
- Próximos pasos

- Chào mừng và giới thiệu
- Việc giảm VMT (số dặm xe đã đi) mang lại lợi ích cho quý vị như thế nào
- Những gì chúng tôi nghe được từ quý vị
- Những gì chúng tôi đã làm với ý kiến đóng góp
- Làm rõ các câu hỏi
- Nhóm nhỏ: Ý kiến đóng góp của quý vị về các loại dự án tiềm năng
- Các bước tiếp theo

- 欢迎辞和自我介绍
- 减少 VMT(车辆行驶 里程)对您有什么好 处
- 我们从你们那里听到了什么
- 我们如何处理这些意见
- 澄清疑问
- 小组讨论: 您对潜在项目类型的意见
- 下一步工作

Virtual Meeting Reunión virtual Cuộc họp qua mạng 虚拟会议

- Camera on? We welcome seeing you!
- Please mute yourself when not speaking:)
- Questions? Use the chat! VTA staff will answer.
- We're recording this
- Facilitators taking notes

- ¿Está la cámara encendida? ¡Le damos la bienvenida!
- Silencie su micrófono cuando no esté hablando :)
- ¿Preguntas? ¡Use el chat! El personal de VTA las responderá
- Estamos grabando esta reunion
- Los facilitadores están tomando nota

- Quý vị đã mở camera chưa? Chúng tôi muốn thấy quý vị!
- Vui lòng tắt tiếng khi không nói :)
- Quý vị có câu hỏi?
 Hãy sử dụng tính
 năng chat! Nhân viên
 VTA sẽ trả lời.
- Chúng tôi đang ghi lại cuộc họp này
- Người hướng dẫn đang ghi chép

- 照相机打开了吗?我 们欢迎您的到来!
- 不发言时请保持静音)
- 如果有任何疑问?使 用聊天工具!VTA工 作人员将回答。
- 我们正在记录
- 主持人正在做笔记



Productive Meeting Tips Consejos para tener una reunión productiva Meo hop hiệu quả

高效會議技巧

- Be respectful of one another.
- Please share time to allow others to speak.
- Participants will automatically be muted.
- Disruptive participants may be removed from the meeting.

- Sean respetuosos los unos con los otros.
- Por favor comparta el tiempo de su participación para permitir que otros hablen.
- Los participantes serán silenciados automáticamente.
- Los participantes que causen perturbaciones podrán ser retirados de la reunión.

- Hãy tôn trọng lẫn nhau.
- Vui lòng chia sẻ thời gian với người khác để họ có thể nói.
- Người tham gia sẽ tự động bị tắt tiếng.
- Những người tham gia gây cản trở có thể bị mời ra khỏi cuộc họp.

- 互相尊重。
- 請給他人發言的時間。

- 參與者將被自動 靜音。



What does VTA do? ¿Cuál es la función de VTA? VTA làm gì? VTA 是做什么的?

- Transit
 Transporte público
 Phương tiện công cộng
 公交
- Construction
 Construction
 Xây dựng
 建设
- Planning & Funding
 Planificación y financiación
 Lập kế hoạch & Kinh phí
 规划与筹资





Workshop Goals Objetivos del taller Mục tiêu của buổi hội thảo 研讨会目标

- We will share the new program we are developing and potential projects
- You give us feedback on the potential projects and how to make them more valuable to you or your community
- Compartiremos el nuevo programa que estamos desarrollando y los proyectos potenciales.
- Ustedes nos brindarán su opinión sobre los proyectos potenciales y cómo hacerlos más valiosos para ustedes mismos o su comunidad.
- Chúng tôi sẽ chia sẻ chương trình mới mà chúng tôi đang phát triển và các dự án tiềm năng.We're recording this
- Quý vị cung cấp cho chúng tôi phản hồi về các dự án tiềm năng và cách làm cho các dự án này có giá trị hơn đối với quý vị hoặc cộng đồng của quý vị.

- 我们将分享正在开发的新计划和潜在项目。
- · 您可以就潜在项目以 及如何使其对您或您 的社区更有价值向我 们提供反馈意见。



How will we use your input? ¿Cómo usaremos sus comentarios? Chúng tôi sẽ sử dụng ý kiến đóng góp của quý vị như thế nào? 我們將如何使用您的意見?



Other ideas for cities, county, VTA

Otras ideas para las ciudades, el condado y VTA Các ý tưởng khác cho các thành phố, quận và VTA



其他針對城市、縣和VTA的想法



Demographics/Poll Demografía/Encuestas Nhân Khẩu Học/Thăm Dò Ý Kiến 人口統計/民調





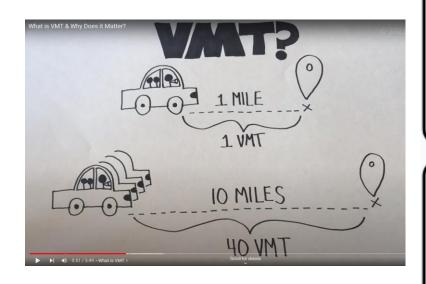
How reducing VMT benefits you

Cómo les beneficia reducir las Millas Recorridas por Vehículo (VMT, por sus siglas en ingles)

Việc giảm VMT (số dặm xe đã đi) mang lại lợi ích cho quý vị như thế nào 减少 VMT(车辆行驶里程)对您有什么好处



What is VMT and why does it matter? ¿Qué son las VMT y por qué son importantes? VMT là gì và tại sao nó lại quan trọng? 什么是 VMT? 为什么它很重要?





Better Air Quality
Mejor calidad del aire
Chất lượng không khí tốt hơn
更好的空氣質量



Less Noise Menos ruido Ít tiếng ổn 噪音更低



More Ways to Travel Más formas de viajar Nhiều cách hơn để đi du lịch 更多旅行方式



More Active Community Comunidad más activa Cộng đồng tích cực hơn 更活躍的社區



Safer Streets
Calles más seguras
Đường phố an toàn hơn
更安全的街道



Other Otro Khác 其他



Project Goals Objetivos del proyecto Mục tiêu của dự án 项目目标

We want to reduce driving and expand travel options for people to get around Santa Clara County in a way that:

- Works across jurisdictional lines
- Improves social equity

Queremos reducir la conducción de vehículos y ampliar las opciones de viaje para que las personas se desplacen por el Condado de Santa Clara de una manera que:

- Funcione cuando se atraviese las delimitaciones jurisdiccionales
- Mejore la equidad social

Chúng tôi muốn giảm lái xe và mở rộng các lựa chọn đi lại cho mọi người đi lại quanh Quận Santa Clara theo cách:

- Hoạt động trên các ranh giới pháp lý
- Cải thiện công bằng xã hội

我们希望通过以下方式减少驾车出行,扩大人们在圣达卡拉县内的出行选择。

- 跨司法管辖区工作
- 改善社会公平



Why is this project important? ¿Por qué es importante este proyecto? Tại sao dự án này lại quan trọng? 该项目为何重要?

- This program
 could generate
 millions of dollars
 in the coming
 25 years.
- How do you think these funds should be used to both reduce VMT and benefit your community?
- Este programa
 podría generar
 millones de
 dólares en los
 próximos 25 años.
- ¿Cómo creen que deberían usarse estos fondos para reducir las VMT y beneficiar a sus comunidades?

- Chương trình này có thể tạo ra hàng triệu đô la trong 25 năm tới.
- Quý vị nghĩ những khoản tiền này nên được sử dụng như thế nào để vừa giảm VMT vừa mang lại lợi ích cho cộng đồng của quý vị?
- 该项目在未来 25 年内将产生 数百万美元的 收益。
- 您认为应如何 使用这些资金 来减少 VMT 并造福您所在 的社区?



What we heard from you
Lo que hemos escuchado de ustedes
Những gì chúng tôi nghe được từ quý vị
我们从您那里听到了什么



Broad Community Feedback Gran cantidad de opiniones dentro de la comunidad Phản hồi rộng rãi của cộng đồng 广泛的社区反馈

- 730+ comments
- Top Feedback Topics
 - Transit's time and cost
 - Lack of efficient bike/ped routes
 - Safety concerns
 - Need to accommodate kids, pets
 - Driving reduces time and stress but not everyone is able to drive
 - Valley Transportation Authority

- Más de 730 comentarios
- Temas principales de los comentarios
 - Tiempo y costo del Transporte Público
 - Falta de rutas eficientes para bicicletas y peatones
 - Preocupaciones de seguridad
 - Necesidad de acomodos para niños y mascotas
 - Conducir reduce el tiempo y el estrés, pero no todo el mundo sabe conducir

- 730+ bình luận
- Các chủ đề phản hồi hàng đầu
 - Thời gian và chi phí của phương tiện công cộng
 - Thiếu các tuyến đường xe đạp hiệu quả
 - Mối quan tâm về an toàn
 - Cần hỗ trợ trẻ em, vật nuôi
 - Lái xe làm giảm thời gian và căng thẳng nhưng không phải ai cũng có thể lái xe

- 730 多条评论
- 反馈最多的主题
 - 公交的运营时间和 成本
 - 缺乏有效的自行车/ 步行路线
 - 安全问题
 - 需要照顾孩子和宠物
 - 开车可以节约时间 和减压--但并不是 每个人都能开车



Community Feedback Comentarios de la comunidad Phản hồi của cộng đồng 社区反馈

"What strategies best solve your biggest transportation challenge?"



"Chiến lược nào giải quyết tốt nhất những khó khăn lớn nhất về giao thông của quý vị?"

"哪些策略最能解决您在交通方面遇到的最大挑战?







389 Responses Respuestas phản hồi 条回复

Frequent and Fast Transit Service Servicio de transporte público frecuente y rápido Dich vu xe công công thường xuyên và nhanh chóng 頻繁、快速的交通服務







107 Responses Respuestas phản hồi 条回复

Change Travel Cost Cambiar el costo de viaje Thay đổi chi phí đi lai 改變行程費用





288

Responses

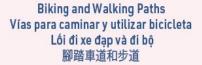
Respuestas

phản hồi

条回复









Many Things To Do Close By Muchas cosas para hacer cerca Nhiều điều cần làm gần đó 附近有很多可以做的事





72 Responses Respuestas phản hồi 条回复



70 Responses Respuestas phản hồi 条回复

FOR **CARPOOL PARKING**

On-Demand Mobility Movilidad a través de servicios por pedido Đi lại dùng nhiều phương tiện khác nhau 按需交通工具

Transit, Bike & Carpool Incentives Incentivos para utilizar el transporte público, bicicleta y hacer viajes compartidos Ưu đãi khi đi xe công cộng, xe đạp & đi chung xe hơi What we did with the input
Qué hicimos con sus comentaros
Những gì chúng tôi đã làm với ý kiến đóng góp
针对该意见,我们做了哪些工作



What we did with the input Qué hicimos con sus comentaros Những gì chúng tôi đã làm với ý kiến đóng góp 针对该意见,我们做了哪些工作

Developed a list of projects that could be funded by this program

- Prioritize reduction categories
- Compare to VTA's project list
- 3. Filter to meet program needs

Se desarrolló una lista de proyectos que podrían ser financiados por este programa

- Priorización de las categorías referidas a la reducción de las VMT
- Comparación con la lista de proyectos de VTA
- 3. Filtrar las ideas para satisfacer las necesidades del programa

Phát triển danh sách các dự án có thể được tài trợ bởi chương trình này

- Ưu tiên các danh mục để giảm VMT
- 2. So sánh với danh sách dự án của VTA
- 3. Sàng lọc để đáp ứng nhu cầu của chương trình

制定了可由该计划资助的项目清单

- 1. 优先考虑减少 VMT 的类别
- 2. 与 VTA 的项目清单进行比较
- 3. 筛选以满足计划需求



1. Prioritize Reduction Categories Priorización de las categorías referidas a la reducción Ưu tiên các danh mục làm giảm 确定减排类别的优先次序

- Does the project meet a community travel challenge?
- Is there a VMT reduction potential?
- Does the project work across jurisdictions?
- Is there city support?

- ¿El proyecto responde a la dificultad que tiene la comunidad con el transporte?
- ¿Existe potencial de reducción de las VMT?
- ¿El proyecto funciona en todas las jurisdicciones?
- ¿Hay apoyo de la ciudad?

- Dự án có đáp ứng được khó khăn đi lại của cộng đồng hay không?
- Có tiềm năng làm giảm VMT không?
- Dự án có hoạt động trên các khu vực pháp lý không?
- Thành phố có hỗ trợ không?

- 项目是否能应对社 区出行挑战?
- 是否有减少 VMT 的 潜力?
- 该项目是否可跨辖 区实施?
- 是否有城市支持?



1. Prioritize Automobile Travel Reduction Categories Priorización de categorías para reducir los viajes por automóvil Uu tiên các danh muc làm giảm



1. Transit Infrastructure Improvements

确定减排类别的优先次序

Mejoras a la infraestructura del transporte público

Dự án Transit Capital

公交資本项目

2. Transit Service Improvements

Mejoras en el servicio del transporte público

Cải tiến dịch vụ của phương tiện công cộng

公交服务改善项目



3. Many Things to do Close-By

Mas actividades y cosas que hacer alrededor cercanos

Nhiều hoạt động gần đó

附近有许多活动

4. Bike and Walking Facilities
Infraestructura para caminar y andar
en bicicleta

Tiện nghi dành cho xe đạp và đi bộ 自行车和步行设施

5. On-Demand Mobility

Movilidad bajo demanda

Đi lại theo nhu cầu

按需出行

6. Transit, Bike & Carpool Incentives

Incentivos para el uso del transporte público, bicicletas y viajes compartidos

Ưu đãi dành cho phương tiện công cộng, xe đạp & đi chung xe

公交、自行车和拼车激励措施

7. Change in Travel Costs

Cambio en los costos de transporte

Thay đổi chi phí đi lại 出行成本的变化

2. Compare to VTA's Project List Comparación con la lista de proyectos de VTA So sánh với Danh sách dự án của VTA 与 VTA 项目清单比较

- King Rd. Bus
 Speed Improvements
- Senter Rd. Bus
 Speed Improvements
- VTA Better Bus Stops
- Enhanced Vanpools
- E-Bike Subsidies
- Housing Subsidies
- Incentives to Use
 Other Modes

- Mejoras en la velocidad de los autobuses en King Road
- Mejoras en la velocidad de los autobuses en Senter Road
- Mejores paradas de los autobús de VTA
- Mejoras de los viajes compartidos en van
- Subsidios para bicicletas eléctricas
- Subsidios de Vivienda
- Incentivos para utilizar otros modos de transporte

- Cải thiện tốc độ xe buýt trên King Road
- Cải thiện tốc độ xe buýt trên Senter Road
- Điểm dừng xe buýt VTA tốt hơn
- Nâng cao việc đi chung xe van
- Trợ cấp xe đạp điện
- Trợ cấp nhà ở
- Ưu đãi khi sử dụng các phương thức vận chuyển khác

- King路公交车提速改 進
- Senter路公交车提速 改進
- VTA巴士站改进
- 加强拼车服务
- 电动自行车补贴
- 住房补贴
- 鼓励使用其他交通方式



3. Filter to Meet Program Needs Filtrar las ideas para satisfacer las necesidades del programa Sàng lọc để đáp ứng nhu cầu của chương trình 为满足计划需求进行筛选

Does project reduce VMT?

Could project be implemented quickly?

Could project be done in chunks – matching uneven funding?

Is there already another funding source?

¿Este proyecto reduce las VMT?

¿Podría implementarse este proyecto rápidamente?

¿Podría realizarse este proyecto en fases debido al carácter intermitente de la financiación?

¿Existe ya otra fuente de financiación?

Dự án này có làm giảm VMT không?

Dự án này có thể được thực hiện nhanh chóng không?

Dự án này có thể được thực hiện theo từng giai đoạn do nguồn vốn không liên tục không?

Đã có nguồn tài trợ khác chưa?

该项目是否能减少 VMT?

该项目能否快速实施?

由于拨款时断时续,该项目能否分阶段实施?

是否已有其他筹资来源?



3. Filter to Meet Program Needs - Results Filtrar las ideas para satisfacer las necesidades del programa - Resultados Sàng lọc để đáp ứng nhu cầu của chương trình - Kết quả 为满足计划需求进行筛选 - 结果

- King Rd. Bus
 Speed Improvements
- Senter Rd. Bus
 Speed Improvements
- VTA Better Bus Stops
- Enhanced Vanpools
- E-Bike Subsidies
- Housing Subsidies
- Incentives to Use Other
 Modes

- Mejoras en la velocidad de los autobuses en King Road
- Mejoras en la velocidad de los autobuses en Senter Road
- Mejores paradas de los autobús de VTA
- Mejoras de los viajes compartidos en van
- Subsidios para bicicletas eléctricas
- Subsidios de Vivienda
- Incentivos para utilizar otros modos de transporte

- Cải thiện tốc độ xe buýt trên King Road
- Cải thiện tốc độ xe buýt trên Senter Road
- Điểm dừng xe buýt
 VTA tốt hơn
- Nâng cao việc đi chung xe van
- Trợ cấp xe đạp điện
- Trợ cấp nhà ở
- Ưu đãi khi sử dụng các phương thức vận chuyển khác

- King路公交车提速改 進
- Senter路公交车提速 改造
- VTA巴士站改进
- 加强拼车服务
- 电动自行车补贴
- 住房补贴
- 鼓励使用其他交通方 式



Project Phasing Fases del proyecto Giai đoạn dự án 项目分期



- Near-Term
 - Projects that are ready to implement
- A corto plazo
 - Proyectos que están listos para implementarse
- Ngắn hạn
 - Các dự án đã sẵn sàng được thực hiện
- 近期
 - 准备实施的项目







- Long-Term
 - Projects that are more complex and need more study
- A largo plazo
 - Proyectos que son más complejos y necesitan más estudio
- Dài hạn
 - Các dự án phức tạp hơn và cần nghiên cứu thêm
- 长期
 - 更为复杂、需要更多研究的项目

Clarifying Questions? Preguntas aclaratorias Làm rõ các câu hỏi 结果



Your input on potential project types

Su opinión sobre los tipos de proyectos potenciales

Ý kiến đóng góp của quý vị về các loại dự án tiềm năng

您对潜在项目类型的意见



Bus Speed Improvements

Mejoras en la velocidad de los autobuses

Cải thiện tốc độ xe buýt

公交车提速



Bus Speed Improvements Mejoras en la velocidad de los autobuses Cải thiện tốc độ xe buýt 公交车提速













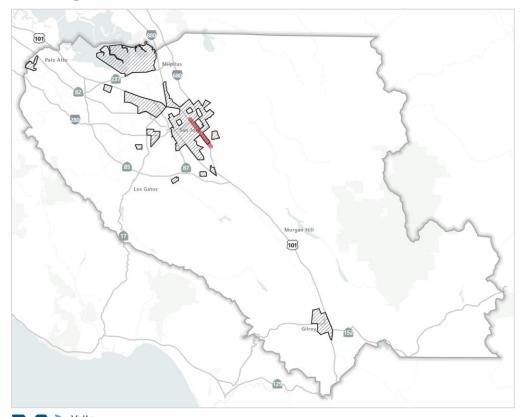
Bus Speed Improvements, Example Mejoras en la velocidad de los autobuses, ejemplo Cải thiện tốc độ xe buýt, ví dụ:



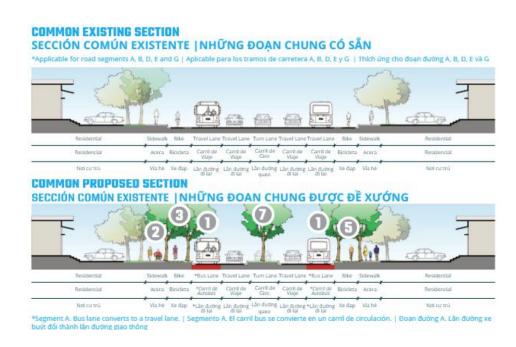
King Road

Solutions that move you

公交车提速,示例



- Side-running dedicated bus lanes
- Transit boarding islands



Bus Speed Improvements Mejoras en la velocidad de los autobuses Cải thiện tốc độ xe buýt 公交车提速



VTA High-Capacity Corridors Map

Figure 8 shows the investments needed to create VTA's high-capacity transit network. Designations are provided for each corridor segment to identify the anticipated implementation period (i.e., Near Term or Long Term) and level of investment (i.e., Tier 1 or 2).

Tier 1, Near Term

Tier 1, Long Term

Tier 2

TIER 1

Bus only lanes, bus stop enhancements (including first/last mile accessibility), and transit signal priority measures.

TIER 2

Transit signal priority, queue jump lanes, and bus stop enhancement measures.





E-Bike Subsidies

Subsidios para bicicletas eléctricas

Trợ cấp xe đạp điện

电动自行车补贴



E-Bike Subsidies Subsidios para bicicletas eléctricas Trợ cấp xe đạp điện 电动自行车补贴

010

- Electric assisted
 bike (e-bike)
- 15-28 mph,3-10 miles/trip
- Use for social outings, appointments, errands, school, work commuting
- Can be implemented throughout the region

- Bicicleta que cuenta con energía eléctrica (e-bike)
- 15-28 mph, 3-10 millas por viaje
- Úsela para salidas sociales, citas, mandados, escuela, transporte al trabajo
- Se puede implementar en toda la región

- Xe đạp điện (e-bike)
- 15-28 mile/giờ, 3-10 mile/chuyến
- Sử dụng cho các chuyến đi chơi bên ngoài, các cuộc hẹn, việc vặt, đi học, đi làm
- Có thể triển khai trên toàn khu vực

- 电动辅助自行 车(电动自行 车)
- 15-28 mph, 3-10 英里/出行
- 用于社交活动、 约会、差事、 上学、上下班 通勤
- 可在整个地区 推行



Applies to regular, cargo, adaptive e-bikes Se aplica a bicicletas eléctricas normales, de carga y adaptadas

Áp dụng cho xe đạp điện thông thường, xe đạp điện chở hàng và xe đạp điện dành cho người khuyết tật

适用于普通电动自行车、货运电动自行车和 自适应电动自行车 60



E-Bike Subsidies, Example Subsidios para bicicletas eléctricas, ejemplo Trợ cấp xe đạp điện, ví dụ: 电动自行车补贴, 示例



Mountain View E-Bike Voucher

- \$1,000-\$1,500
 voucher for
 low to moderate
 income
 residents to
 purchase a new
 electric bike
- Voucher amount adjusted for household size and income
- Purchase facilitated by local shop

Cupón para bicicletas eléctricas de la Ciudad de Mountain View

- Cupón de \$1,000 a \$1,500 para residentes con ingresos bajos a moderados para comprar una nueva bicicleta eléctrica
- Monto del cupón ajustado según el tamaño de la familia y los ingresos
- Compra facilitada a través de una tienda local

Phiếu giảm giá xe đạp điện của Thành phố Mountain View

- Phiếu giảm giá
 xe đạp điện mới \$1,000-\$1,500 dành cho cư dân có thu nhập từ thấp đến trung bình
- Số tiền phiếu giảm giả được điều chỉnh theo số người trong gia đình và thu nhập
- Việc mua hàng được hỗ trợ bởi cửa hàng địa phương

山景城(Mountain View)电动自行车 代金券

- 为中低收入居民 提供 \$1,000-\$1,500 的代金 券,用于购买一 辆新的电动自行 车
- 根据家庭人口和 收入调整代金券 金额
- 由当地商店协助购买







for Income-qualified Residents of Mountain View

The City of Mountain View, in partnership with Acterra, is excited to introduce the E-Bike Voucher Program! This initiative provides eligible low to moderate income Mountain View residents with vouchers to help them purchase electric bikes from designated vendors. By lowering barriers to e-bike adoption, we aim to enhance the well-being of both our community and the environment. The Program is accepting applications through April 28th.



Enhanced Vanpools

Mejoras de los viajes compartidos en van

Nâng cao việc đi chung xe van

增强型拼车



Existing Vanpools Viajes compartidos en van actuales Trợ cấp xe đạp điện, ví dụ: 电动自行车补贴, 示例



Bay Area Vanpool Program

- 7-15 people commuting together and sharing driving responsibilities
- \$900 subsidy (\$500 from MTC, \$400 from VTA)
- Partnership with Enterprise Rent-a-Car

Programa de viajes compartidos en van del área de la Bahía

- 7-15 personas viajan juntas y comparten responsabilidades en cuanto a la conducción
- Subsidio de \$900 (\$500 de la Comisión de Transporte Metropolitano, \$400 de VTA)
- Asociación con Enterprise Rent-a-Car

Chương trình đị chung xe van của Bay Area

- 7-15 người đi lại cùng nhau và chia sẻ trách nhiệm lái xe
- Trợ cấp \$900 (\$500 từ Ủy ban Giao thông Đô thị, \$400 từ VTA)
- Hợp tác với Enterprise Renta-Car

湾区拼车计划

- 7-15 人一起 通勤并分担 驾驶责任
- · \$900 补贴 (\$500 来自 大都会交通 委员会, \$400 来自 VTA)
- 与企业型租车公司合作



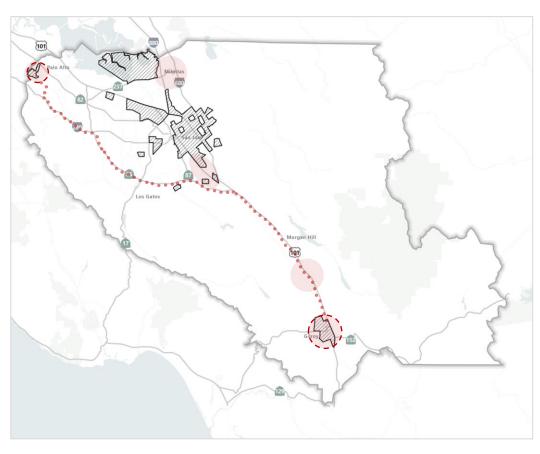






Enhanced Vanpools, Example Mejoras de los viajes compartidos en van, ejemplo Nâng cao việc đi chung xe van, ví dụ: 增强型拼车,示例





- Larger
 subsidies for
 shift worker
 vanpools (e.g.,
 agricultural,
 warehouse /
 industrial)
- Assistance in forming vanpools with co-workers who live nearby
- Applies countywide

- Mayores subsidios
 para los viajes
 compartidos en
 van de
 trabajadores que
 laboran por turnos
 (por ejemplo,
 agrícolas,
 industriales)
 Mayores subsidios
 en
 variales
 en
 van de
 trabajadores que
 laboran por turnos
 (por ejemplo,
 agrícolas,
 industriales)
- Asistencia en la organización de viajes compartidos en van con compañeros de trabajo que viven cerca
- Se aplica en todo el Condado

- Trợ cấp nhiều hơn cho việc đi chung xe van của công nhân làm việc theo ca (ví dụ: nông nghiệp, công nghiệp)
- Hỗ trợ thiết lập việc đi chung xe van với đồng nghiệp sống gần đó
- Áp dụng trên toàn quận

为作业的车多 协在同轮(、工提补 助附事工人供贴 与近组工农业拼更 住的成

拼车小组

适用于全



县

What Do We Need Input on?

¿Sobre qué necesitamos información? Chúng tôi cần ý kiến đóng góp về điều gì? 我们需要哪方面的意见?

- How valuable are these project types to you or your community?
- How can the projects be tailored to meet your needs or your community's needs?
- How can these project types most advance social equity in Santa Clara County?

- ¿Qué valor tienen estos tipos de proyectos para usted o su comunidad?
- ¿Cómo se pueden adaptar los proyectos para satisfacer sus necesidades o las de su comunidad?
- ¿Cómo pueden estos tipos de proyectos promover más la equidad social en el Condado de Santa Clara?

- Những loại dự án này có giá trị như thể nào đối với quý vị hoặc cộng đồng của quý vị?
- Làm thế nào các dự án có thể được điều chỉnh để đáp ứng nhu cầu của quý vị hoặc nhu cầu của cộng đồng của quý vị?
- Làm thế nào các loại dự án này có thể thúc đẩy công bằng xã hội nhất ở Quận Santa Clara?

- 这些项目类型对 您或您所在社区 的价值有多大?
- 如何调整这些项目以满足您或您社区的需求?
- 这些项目类型如何才能最大程度地促进圣达卡拉县的社会公平?









Bus Speed Improvements Mejoras en la velocidad de los autobuses Cải thiện tốc độ xe buýt 公交车提速



- Group feedback
- Comentarios del grupo
- · Phản hồi của nhóm
- 小组反馈



E-Bike Subsidies Subsidios para bicicletas eléctricas Trợ cấp xe đạp điện 电动自行车补贴



- Group feedback
- Comentarios del grupo
- · Phản hồi của nhóm
- 小组反馈



Enhanced Vanpools Mejoras de los viajes compartidos en van Nâng cao việc đi chung xe van 增强型拼车



- Group feedback
- Comentarios del grupo
- · Phản hồi của nhóm
- 小组反馈



Social Equity Equidad Social Công bằng xã hội 社会公平

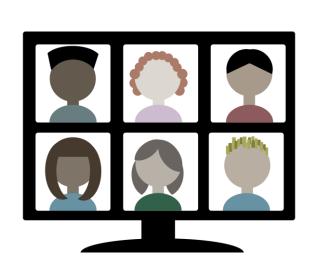
- How can these project types most advance social equity in Santa Clara County?
- ¿Cómo pueden estos tipos de proyectos promover más la equidad social en el Condado de Santa Clara?
- Làm thế nào các loại dự án này có thể thúc đẩy công bằng xã hội nhất ở Quận Santa Clara?
- 这些项目类型如何能最大程度地促进圣达卡拉县的社会公平?



Next Steps
Próximos pasos
Các bước tiếp theo
下一步计划

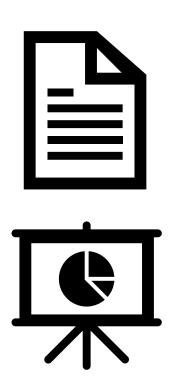


How will we use your input? ¿Cómo usaremos sus comentarios? Chúng tôi sẽ sử dụng ý kiến đóng góp của quý vị như thế nào? 我們將如何使用您的意見?











Thank you! ¡Gracias! Cảm ơn quý vị! 谢谢!





Stay tuned on Entérese de todo lo que pasa en Tiếp tục theo dõi trên 請繼續關注

Website: www.vta.org/EquitableVMT Email: community.outreach@VTA.org

Appendix J3: VTA and Local Jurisdiction Workshop Presentation







Agenda

| Welcome & Project Team Introductions | 1:30 pm |
|--|---------|
| Summary of Phase I Engagement | 1:35 pm |
| What we did with the Phase I Input | 1:45 pm |
| Exercise: Example VMT Mitigation Actions | 2:00 pm |
| Exercise: Draft Program Structure Recommendation | 2:20 pm |
| Exercise: Who is the Sponsor? | 2:40 pm |
| Schedule Update and Next Steps | 2:55 pm |



Summary of Phase I Engagement



Goals

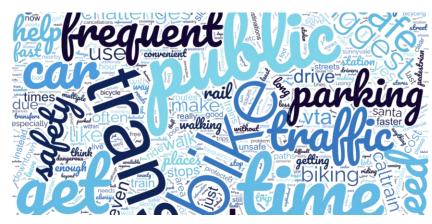
- Solicit broad feedback from an extensive spectrum of stakeholders and community members.
- Gather information on existing travel behaviors, challenges, and needs. (Community)
- Gather information on existing VMT mitigation practices. (Local Jurisdictions)
- Combine feedback into a broad set of VMT reduction projects. (Everyone)

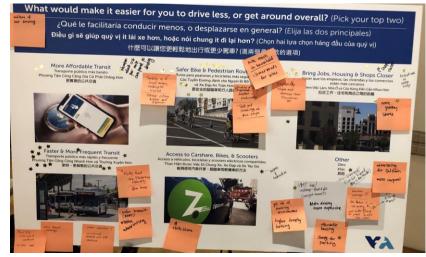




Broad Community Feedback

- 730+ unique pieces of feedback
- Sample feedback topics
 - Transit's travel time and financial burden
 - Lack of efficient bike/ped routes
 - Safety concerns
 - Need to accommodate kids, pets
 - Using a car reduces time and stress but not everyone is able to drive







Community Feedback



"What strategies best solve your biggest transportation challenge?"



- Frequent and Fast Transit (389)
- Biking and Walking Paths (288)
- Many Things to do Close-By (242)
- Change Travel Costs (107)
- On-Demand Mobility (72)
- Transit, Bike and Carpool Incentives (70)



CBO Focus Group Feedback



- High cost of transit with low frequency and long travel times
- Difficulty accessing transit stops and/or key amenities
- Limited neighborhood walkability/ bikeability, poor lighting



"What would solve the biggest challenges community members face?"

- Enhanced bike/ped facilities
- Improved frequency of transit
- Increased visibility of the range of transit services, fare options
- Education about transit and micromobility incentives



Local Jurisdiction Feedback



"Most useful VMT mitigation measures?"



- Access to Vehicles (80)
- Mobility Services (58)
- TDM Programs and Incentives (45)
- Transit Services (40)
- Land Use Strategies (37)
- Active Transportation Facilities (34)



What we did with the Phase I Input



What we did with the Phase I Input



Selection process for VMT mitigation actions:

- 1. VMT reduction category priorities
- 2. Example VMT reduction projects
- 3. Example VMT mitigation actions



VMT Reduction Categories: Prioritization Scheme



- Meeting community travel challenge
- VMT reduction potential
- Inter-jurisdictional
- Local jurisdiction support
- Implementation challenge for a countywide agency
- Project type (capital vs. operations)



VMT Reduction Category Priorities





What are the results of the VMT reduction category prioritization?



- Transit: Capital Enhancements
- Transit: Operational Enhancements
- Many Things to do Close-By
- Bike and Walking Facilities
- On-Demand Mobility
- Transit, Bike and Carpool Incentives
- Change in Travel Costs



Sample Projects and Plan Sources



- VTA TDM Program
- Multimodal Improvement Plans
- City/County Bike and Ped Plans
- Microtransit Service Plans
- VTA High-Capacity Transit Study

- Valley Transportation Plan (VTP) 2040
- Community Based Transportation Plans
- MTC Regional Vanpool Program
- Many more!





Could be implemented relatively quickly and are applicable to a variety of locations around the County?



- King Road Transit Speed and Reliability
- Senter Road Transit Priority Improvements
- VTA Better Bus Stops
- Enhanced Vanpools
- Subsidies for E-Bikes
- Housing Relocation Subsidy Program
- Incentives & Promotions to Use Other Modes





Are relatively inexpensive and/or can be scaled up or down easily?



- King Road Transit Speed and Reliability
- Senter Road Transit Priority Improvements
- VTA Better Bus Stops
- Enhanced Vanpools
- Subsidies for E-Bikes
- Housing Relocation Subsidy Program
- Incentives & Promotions to Use Other Modes





Align with the community input from Phase I and can be designed to benefit EPC areas or populations?



- King Road Transit Speed and Reliability
- Senter Road Transit Priority Improvements
- VTA Better Bus Stops
- Enhanced Vanpools
- Subsidies for E-Bikes
- Housing Relocation Subsidy Program
- Incentives & Promotions to Use Other Modes





Have substantive VMT reduction potential?



- King Road Transit Speed and Reliability
- Senter Road Transit Priority Improvements
- VTA Better Bus Stops
- Enhanced Vanpools
- Subsidies for E-Bikes
- Housing Relocation Subsidy Program
- Incentives & Promotions to Use Other Modes





Do not already have funding from other sources?



- King Road Transit Speed and Reliability
- Senter Road Transit Priority Improvements
- VTA Better Bus Stops
- Enhanced Vanpools
- Subsidies for E-Bikes
- Housing Relocation Subsidy Program
- Incentives & Promotions to Use Other Modes



Example VMT Mitigation Actions





Street improvements in equity priority communities



E-Bike Subsidies

For equity priority communities to purchase an e-bike



Enhanced Vanpools

For agriculture, manufacturing, service, healthcare workers, etc.



Exercise: Example VMT Mitigation Actions



Input on Example VMT Mitigation Actions

- Are these VMT mitigation actions best delivered by a countywide program?
 Why or why not?
- Can the VMT mitigation actions be refined?







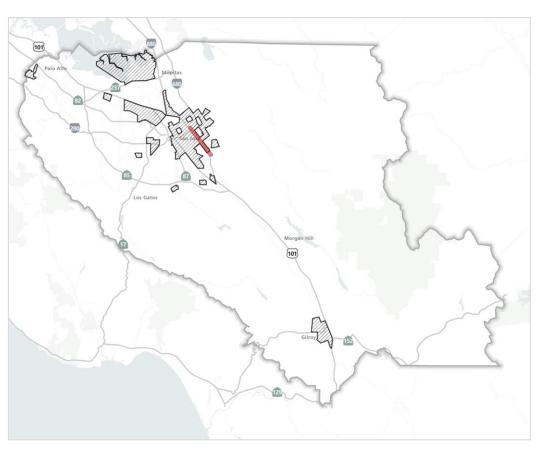


Bus Speed Improvements

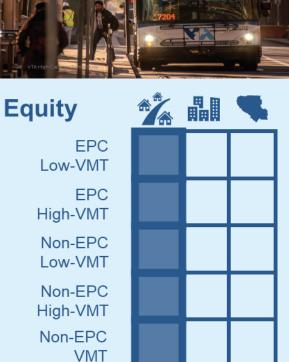


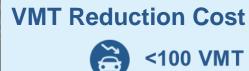
Bus Speed Improvements





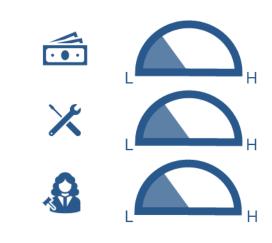








Feasibility Challenge





Bus Speed Improvements



VTA High-Capacity Corridors Map

Figure 8 shows the investments needed to create VTA's high-capacity transit network. Designations are provided for each corridor segment to identify the anticipated implementation period (i.e., Near Term or Long Term) and level of investment (i.e., Tier 1 or 2).

Tier 1, Near Term

Tier 1, Long Term

Tier 2

TIER 1

Bus only lanes, bus stop enhancements (including first/last mile accessibility), and transit signal priority measures.

TIER 2

Transit signal priority, queue jump lanes, and bus stop enhancement measures.





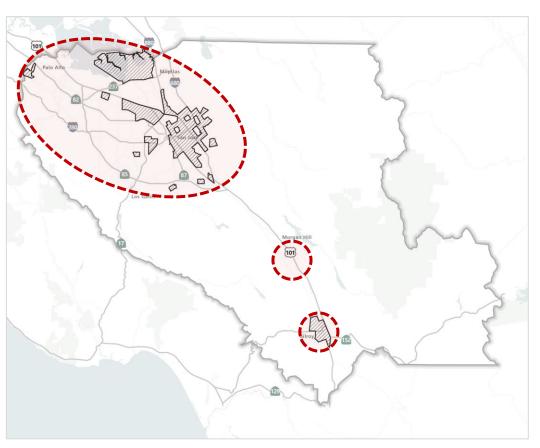
E-Bike Subsidies



Solutions that move you

E-Bike Subsidies









VMT Reduction Cost



7,500-13,000 VMT



\$0.60-\$0.30/VMT

Feasibility Challenge













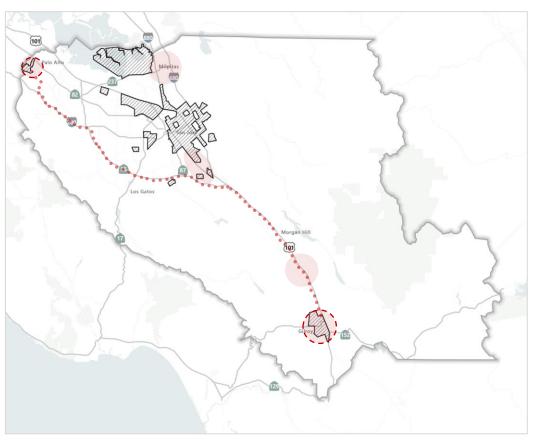


Enhanced Vanpools



Enhanced Vanpools









VMT Reduction Cost



11,800-34,700 VMT





\$0.50/VMT

Feasibility Challenge















Exercise: Draft Program Structure Recommendation



Example VMT Mitigation Actions Evaluated





Roadway improvements in equity priority communities



E-Bike Subsidies

For equity priority communities to purchase an e-bike



Enhanced Vanpools

For agriculture, manufacturing, service, healthcare workers, etc.



Draft Program Structure Recommendation

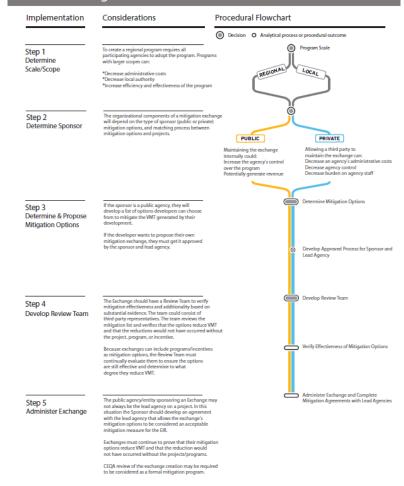
- Countywide VMT exchange adopted by participating agencies
- Sponsor organization?
- List of VMT mitigation actions
- Review team for effectiveness and additionality
- On-going monitoring and CEQA for program



Mitigating VMT Impacts Under SB 743

FEHR PEERS

VMT Exchange



Why a VMT Exchange?



| VMT-Based Impact Fee | VMT Exchange | VMT Bank | |
|---|--|--|--|
| ✓ Easy to understand | ✓ Flexible | ✓ Flexible | |
| ✓ Modest administrative burden (many agencies are already familiar with administering impa fee programs) | ✓ Moderate administrative burden (less than a Bank) | ✓ Can split funding between applicants | |
| ✓ Funds tangible improvements | ✓ Can fund programs and operations | ✓ Can fund programs and operations | |
| Can only be used toward capital improvements | Applicants must fund entire mitigation | High administrative burden | |
| | First-in problem, the most cost- effective measures will be funded first | | |



VMT Exchange?



- What else do you need to know about a VMT exchange?
- Would a VMT exchange benefit your community?
 - Yes, what do you like?
 - No, what would you prefer?
- Polling Question: Rank the program type options from 1 (most desirable) to 3 (least desirable).



Exercise: Who is the sponsor?



Who is the sponsor?



- What are the options?
 - VTA
 - Joint Powers Board like Caltrain
 - New Agency like Santa Clara Valley Habitat Agency
 - Private Agency untried approach



Who is the sponsor?



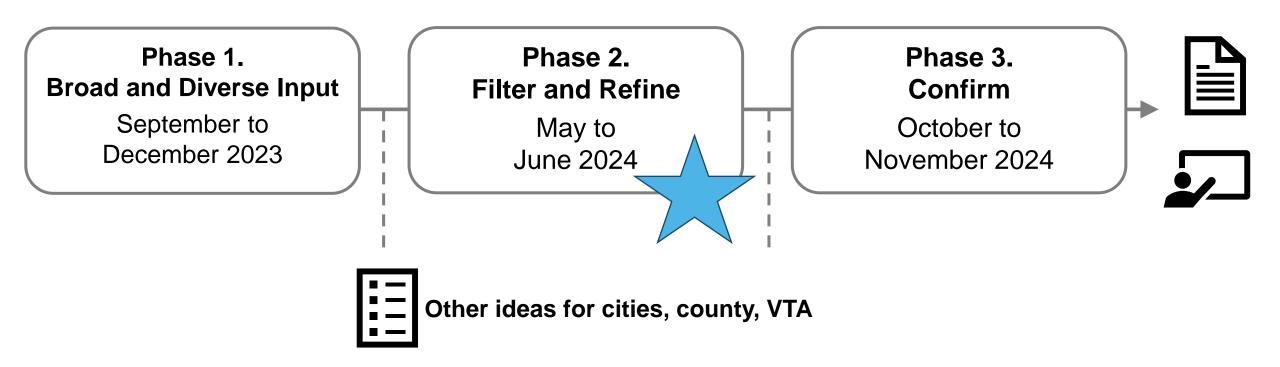
- Knowing the VMT reduction projects the program would deliver and the draft program structure:
 - What are the benefits of VTA being the sponsor of the program?
 - What are the challenges?
- Polling Question: Rank the sponsor options from 1 (most desirable) to 4 (least desirable).



Next Steps



How will we use your input?





VMT Mitigation Action Phasing

- Near-Term
 - Mitigation actions that are ready to implement
- Long-Term
 - Mitigation actions that are more complex to implement and will need additional study













Phase II Engagement Events – Help Spread the Word!

| Event | Date | Time | Location | Audience |
|---------------------------------------|---------------|-------------|-----------------------------|---|
| VTA Staff Workshop | Thursday 5/2 | 1-2:30 PM | Virtual – Teams | VTA Staff |
| Local Jurisdiction Workshop | Monday 5/13 | 1:30-3 PM | Virtual – Teams | Local jurisdiction staff |
| CBO Staff Workshop | Thursday 5/16 | 2:30-4 PM | Virtual – Teams | CBO Staff |
| SJSU Mineta Research Snaps webinar | Tuesday 5/21 | 12-12:30 PM | Virtual – Zoom | Students, researchers, agency staff, general public |
| East San José Community Workshop | Tuesday 5/21 | 6:30-8 PM | Alum Rock Branch Library | General public, Catalyze SV constituents |
| South County Community Workshop | Thursday 5/23 | 6-7:30 PM | Gilroy Senior Center | General public, Carry the Vision constituents |
| Virtual Community Workshop | Thursday 5/30 | 6-7:30 PM | Virtual – Zoom | General Public |



Plus individual meetings with agencies and organizations, ongoing

Thank you!



Solutions that move you

Program Administration



Program Administration Recommendations: Agency Oversight Funding

Who pays who?

 Project applicant pays the VMT exchange agent (the sponsor)

Who implements the mitigation action?

 VMT exchange agent/ implementing agency

Agency Oversight & Funding

Program Criteria & Efficacy

Monitoring

CEQA Compliance



Program Administration Recommendations: Program Criteria and Efficacy



What types of mitigation actions can be funded?

- Capital improvements
- Programs
- Services
- Operations and maintenance efforts

Program Criteria & Efficacy

Monitoring



Program Administration Recommendations: Monitoring

Agreement between sponsor and lead agency on what is evaluated:

- Timing of implementation
- Evidence and frequency of monitoring for VMT reduction effectiveness and additionality
- Mitigation life span
- On-going monitoring
- Method for unique MMRP requirements

Agency Oversight & Funding

Program Criteria & Efficacy

Monitoring

CEQA Compliance



Program Administration Recommendations: Monitoring

Who evaluates the mitigation action?

 Exchange agent review team evaluates the mitigation action

How frequently does evaluation occur?

 Evaluation frequency established in the agreement between the sponsor and the lead agency

Agency Oversight & Funding

Program Criteria & Efficacy

Monitoring

CEQA Compliance



Program Administration Recommendations: CEQA Compliance

What is the CEQA mitigation potential?

- Potential for full mitigation to less-thansignificant, depending on magnitude and duration of VMT reduction activities selected.
- Agreement to define availability and life span of VMT mitigation.

Agency Oversight & Funding

Program Criteria & Efficacy

Monitoring

CEQA Compliance



Program Administration Recommendations: Other Requirements



Other requirements

- Address statutory law
- Consistency with other plans and programs
- This project's equity framework

Program Criteria & Efficacy

Monitoring



Appendix K: Phase 3 - Confirm



Appendix K1:
Phase 3
Community
Engagement
Summary
Memorandum



Phase 3 Engagement Feedback Summary

Phase 3 Engagement Goals

Goals for Phase 3: Confirm engagement included the following:

- Share the draft program framework with the community and stakeholders
- Note how community and stakeholder feedback shaped the program
- Field lingering questions about the draft program framework

Phase 3 Events

The project team hosted the following events as part of Phase 3: Confirm:

- 1 Virtual community meeting
- 1 Virtual AskVTA event
- 1 Technical Advisory Group meeting
- Discussion Item at 4 VTA Committee meetings
- 10 Meetings with organizations and jurisdictions

Phase 3 Event Summary

To help ensure that many of the stakeholders who participated in earlier phases of engagement were aware of the Public Draft Report release and had the opportunity to provide input, VTA staff reached out personally to all of the CBOs and other organizations that participated in Phase 1 and Phase 2 engagement – a total of more than 30 organizations. This helped address one of the project's engagement and consensus building goals (noted in Section 3.1), to make sure that community members and stakeholders understand how their input is used. In the presentation materials for Phase 3, the project team made a point to highlight how feedback on the example VMT mitigation actions helped shape the program recommendations.

Table 1 shows the number of participants for Phase 3: Confirm engagement events by event type.

Table 1: Event Summary

| Event Title | Number of Occurrences | Number of Participants | Type of Participant |
|---|-----------------------|---|--|
| Virtual Community Meeting | 1 | 17 | Community members |
| Virtual Ask VTA Event | 1 | 10 | Community members |
| Technical Advisory Group (TAG) meeting | 1 | 32 | Staff from 13 of the 16 local jurisdictions in Santa Clara County (+Caltrans and MTC) |
| Discussion Item at VTA Committee Meetings (November 2024 TAC, BPAC, PAC, and CMPP) | 4 | Approximately 40 attendees (2 public comments and 20+ Committee comments) | Public Works and Planning Directors; bicycle/pedestrian advocates; City Councilmembers and County Supervisors |
| Meetings with Organizations and Jurisdictions | 10 | Approximately 80 | 5 meetings with organizations, 5 meetings with local jurisdictions (2 to 25 representatives per meeting) |
| Total | 17 | > 180 | |

Source: Fehr & Peers and VTA, 2025.

Phase 3 Feedback

Phase 3 was successful in confirming the community and stakeholder direction received in Phases 1 and 2 and validating the application of this feedback in the project recommendations. The range of events held—Virtual Community Meeting, AskVTA event, TAG meeting, Discussion item at VTA Committee meetings, and meetings with organizations and jurisdictions—allowed the project team to discuss recommendations, receive feedback, and clarify next steps in a way that was tailored to specific audiences.

Questions raised at community and stakeholder events covered a wide range of topics. Community members inquired about specific mitigation actions and opportunities to incorporate elements such as curb management, Universal Design and complete streets planning, and bicycle and pedestrian safety. Both community members and jurisdiction stakeholders also asked about programmatic aspects, including incentives for cities to participate, the proposed program management structure, and how the program would coordinate with existing jurisdiction-level VMT reduction policies.

The following are key themes drawn from the feedback received by the project team throughout Phase 3: Confirm engagement:

- Many community members and stakeholders expressed support for the concept
 of a countywide VMT mitigation program. While the level of detail shared about the
 program framework varied among audiences, a common theme emerged: such a
 program could be highly beneficial and address a critical need created by the State's
 shift in CEQA environmental review to prioritize VMT reduction. Numerous
 stakeholders also expressed appreciation for VTA's leadership in this area.
- There was moderate support for the example VMT mitigation actions, but broader support for the three main categories: financial incentives, capital projects, and services. When presented with specific mitigation actions, community members and stakeholders often raised questions or comments about why certain actions weren't included or how particular jurisdictions or populations might benefit. When the project team clarified that the VMT mitigation action list would be re-visited and refined during a potential implementation phase with the guidance of a VMT Mitigation Action Review Team, participants expressed broader support for the approach.
- Some local jurisdiction staff emphasized the importance of demonstrating how
 the program would benefit their constituents and developers locally. This could
 be addressed during the implementation phase through selection criteria for including
 VMT mitigation actions, ensuring that the program benefits a range of populations and
 areas around the county, while still prioritizing equity communities.
- Several CBOs and other organizations expressed interest in partnering with VTA
 and local jurisdictions if a program moves toward implementation. During Phase
 3 meetings, participants highlighted potential synergies between the actions in a
 countywide VMT mitigation program and existing local efforts, such as bicycle safety
 education, distribution of e-bike incentives, TDM efforts at local employers and
 residential developments, and CBO-led initiatives that reach equity communities.
- Stakeholders encouraged VTA to emphasize the benefits that a countywide VMT mitigation program could have. During Phase 3 meetings, the most well-received slide was a snapshot from the project Fact Sheet showcasing potential benefits of a program for developers, local jurisdictions, members of equity communities, the general public, and the environment. Several local jurisdiction staff noted that VTA sponsoring a program could help alleviate some of the CEQA and administrative burdens faced by their agencies.
- Local jurisdiction staff expressed interest in learning more about what "optingin" to an implementation phase would entail. When VTA staff explained that
 jurisdictions would have the opportunity to opt in following the VTA Board's
 consideration of the final report and program framework in Spring 2025, many local
 jurisdiction staff expressed tentative interest. They did, however, indicate a need for
 more detail about what this would involve.

Appendix K2: Community Workshop Presentation





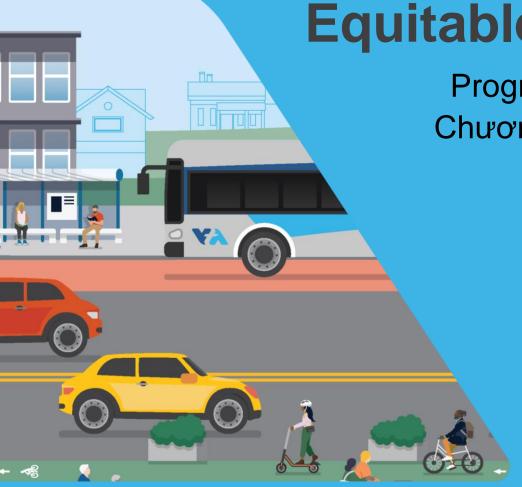
Programa de mitigación de VMT equitativo de VTA Chương trình giảm thiểu VMT mang tính công bằng của VTA VTA 公平 VMT 缓解计划

Virtual Community Meeting #3

Tercera reunión virtual con la comunidad Cuộc Họp Cộng Đồng Qua Mạng #3 虛擬社區會議 #3

November 21, 2024

21 de noviembre de 2024 Ngày 21 tháng 11 năm 2024 2024年11月21日





FEHR PEERS

Language Channels / Interpretation Canales de Idiomas / Interpretación Kênh Ngôn Ngữ/Thông Dịch 語言頻道 / 口譯

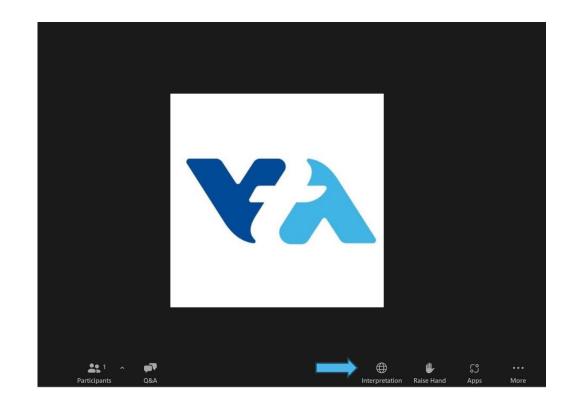
Click Interpretation .

Click the language that you would like to hear; everyone should pick; do not use the default.

Haga clic en Interpretación. Seleccione el idioma que le gustaría escuchar. Todos deben elegir una de las opciones; no utilice el idioma predeterminado al inicio de la reunión.

Nhấp vào Interpretation (Thông Dịch). Chọn ngôn ngữ quý vị muốn nghe. Mỗi người nên chọn một ngôn ngữ; không sử dụng ngôn ngữ mặc định.

點擊「口譯」 選擇您想聽到的語言。每個人都應選擇一個語言;不要使用預設。



Virtual Meeting Reunión virtual Cuộc họp qua mạng 虚拟会议

- Camera on? We welcome seeing you!
- Please mute yourself when not speaking:)
- Questions? Use the chat! VTA staff will answer.
- We're recording this
- Facilitators taking notes

- ¿Está la cámara encendida? ¡Le damos la bienvenida!
- Silencie su micrófono cuando no esté hablando :)
- ¿Preguntas? ¡Use el chat! El personal de VTA las responderá
- Estamos grabando esta reunion
- Los facilitadores están tomando nota

- Quý vị đã mở camera chưa? Chúng tôi muốn thấy quý vị!
- Vui lòng tắt tiếng khi không nói :)
- Quý vị có câu hỏi?
 Hãy sử dụng tính
 năng chat! Nhân viên
 VTA sẽ trả lời.
- Chúng tôi đang ghi lại cuộc họp này
- Người hướng dẫn đang ghi chép

- 照相机打开了吗? 我 们欢迎您的到来!
- 不发言时请保持静音)
- · 如果有任何疑问?使 用聊天工具!VTA 工 作人员将回答。
- 我们正在记录
- 主持人正在做笔记



Productive Meeting Tips Consejos para tener una reunión productiva Meo hop hiệu quả

高效會議技巧

- Be respectful of one another.
- Please share time to allow others to speak.
- Participants will automatically be muted.
- Disruptive participants may be removed from the meeting.

- Sean respetuosos los unos con los otros.
- Por favor comparta el tiempo de su participación para permitir que otros hablen.
- Los participantes serán silenciados automáticamente.
- Los participantes que causen perturbaciones podrán ser retirados de la reunión.

- Hãy tôn trọng lẫn nhau.
- Vui lòng chia sẻ thời gian với người khác để họ có thể nói.
- Người tham gia sẽ tự động bị tắt tiếng.
- Những người tham gia gây cản trở có thể bị mời ra khỏi cuộc họp.

- 互相尊重。
- 請給他人發言的時間。

- 參與者將被自動 靜音。
- 搗亂者可能會被 踢出會議。



Agenda Agenda Chương Trình 議程

- Welcome and Introductions
- Program Goal and Community Engagement
- What Could a Program Fund
- How Did Your Input Shape the Framework
- How Would the Program Affect You
- Next Steps
- Questions and Comments



- Bienvenida y presentaciones
- Objetivo del programa y participación de la comunidad
- ¿Qué podría financiar este programa?
- ¿Cómo influyó su aporte en el marco del programa?
- ¿Cómo le afectaría el programa?
- Próximos pasos
- Preguntas y comentarios

- Chào Mừng và Giới Thiệu
- Mục Tiêu Chương Trình và Sự Tham Gia của Cộng Đồng
- Chương Trình Có Thể Tài Trợ Những Gì?
- Ý Kiến Đóng Góp của Quý vị Đã Định Hình Nền Tảng Như Thế Nào?
- Chương Trình Ảnh Hưởng Đến Quý vị Như Thế Nào?
- Các Bước Tiếp Theo
- Câu Hỏi và Nhận Xét

- 歡迎和介紹
- 計畫目標和社區參與
- 計畫可以資助什麼?
- 您的意見如何影響計畫框架?
- 該計畫對您有何影響?
- 下一步
- 問題和意見

Welcome and Introductions Bienvenida y presentaciones Chào mừng và giới thiệu 欢迎辞和自我介绍

Catalyze SV: Jhaid Parreno

Fehr & Peers:

Taylor McAdam Alexandra Lee-Gardner

VTA:

Deanna Bolio Rob Swierk Interpreters / Interpretes / Thông dịch viên / 翻译 Quinn Doan Evita Martinez-Kelly Junting Tan

Caltrans:

Melissa Hernandez



Welcome from Caltrans Bienvenidos de Caltrans Chào Mừng từ Caltrans 來自加州交通局(Caltrans)的歡迎





Meeting Goals Objetivos del taller Mục tiêu của buổi hội thảo 研讨会目标

- Share back the program framework
- Note how your input shaped the program
- Hear any questions or comments you have

- Compartir el marco del programa
- Observar cómo su aporte influyó en el programa
- Escuchar cualquier pregunta o comentario que tenga

- Chia sẻ nền tảng chương trình
- Ghi chú ý kiến đóng góp của quý vị sẽ định hình chương trình như thế nào
- Nghe bất kỳ câu hỏi hoặc nhận xét nào của quý vị

- 分享計畫框架
- 說明您的意見對計畫的影響
- 聽取您的任何問題或意見



What does VTA do? ¿Cuál es la función de VTA? VTA làm gì? VTA 是做什么的?

- Transit
 Transporte público
 Phương tiện công cộng
 公交
- Construction
 Construction
 Xây dựng
 建设
- Planning & Funding
 Planificación y financiación
 Lập kế hoạch & Kinh phí
 规划与筹资





Demographics/Poll Demografía/Encuestas Nhân Khẩu Học/Thăm Dò Ý Kiến 人口統計/民調





Program Goals and Background

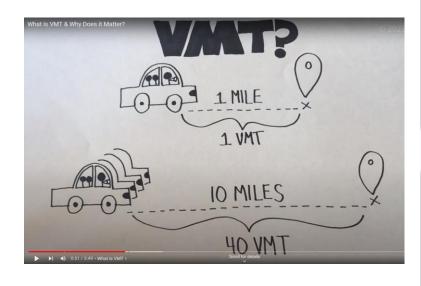
Objetivos del programa e información sobre los antecedentes

Mục Tiêu Chương Trình và Thông Tin Cơ Bản

計畫目標和背景資訊



What Is Vehicle Miles Traveled (VMT) and Why Does It Matter? ¿Qué son las VMT y por qué son importantes? VMT là gì và tại sao nó lại quan trọng? 什么是 VMT? 为什么它很重要?





Better Air Quality Mejor calidad del aire Chất lượng không khí tốt hơn 更好的空氣質量



Less Noise Menos ruido Ít tiếng ổn 噪音更低



More Ways to Travel Más formas de viajar Nhiều cách hơn để đi du lịch 更多旅行方式



More Active Community Comunidad más activa Cộng đồng tích cực hơn 更活躍的社區



Safer Streets
Calles más seguras
Đường phố an toàn hơn
更安全的街道



Other Otro Khác 其他



12

Program Goals Objetivos del proyecto Mục tiêu của dự án 项目目标

We want to reduce driving and expand travel options for people to get around Santa Clara County in a way that:

- Works across jurisdictional lines
- Improves social equity

Queremos reducir la conducción de vehículos y ampliar las opciones de viaje para que las personas se desplacen por el Condado de Santa Clara de una manera que:

- Funcione cuando se atraviese las delimitaciones jurisdiccionales
- Mejore la equidad social

Chúng tôi muốn giảm lái xe và mở rộng các lựa chọn đi lại cho mọi người đi lại quanh Quận Santa Clara theo cách:

- Hoạt động trên các ranh giới pháp lý
- Cải thiện công bằng xã hội

我们希望通过以下方式减少驾车 出行,扩大人们 在圣达卡拉县内 的出行选择。

- 跨司法管辖区工作
- 改善社会公平



What is the Potential of this Program?

¿Cuál es el potencial de este programa? Tiềm Năng của Chương Trình này là gì? 該計畫的潛力有多大?

- This program could generate millions of dollars in the coming 25 years.
- Community time and this program offers flexibility to respond to needs when a development is being built.
- priorities shift over
- Este programa podría generar millones de dólares en los próximos 25 años.
- Las prioridades de la comunidad cambian con el tiempo y este programa ofrece flexibilidad para responder a las necesidades cuando se esté construyendo un desarrollo.

- Chương trình này có thể tạo ra hàng triệu đô la trong 25 năm tới.
- Các ưu tiên của cộng đồng thay đổi theo thời gian và chương trình này cung cấp sự linh hoạt để đáp ứng nhu cầu khi đang xây dựng việc phát triến.

- 本計畫可在未來 25 年內帶來數百 萬美元的收益。
- 社區的優先事項 會隨著時間的推 移而變化,本計 畫提供了靈活性, 可在開發專案建 設時對需求做出 回應。



Community Engagement

Participación de la comunidad

Sự Tham Gia của Cộng Đồng

社區參與



Community Engagement Phases Fases de la participación comunitaria Các Giai Đoạn Tham Gia của Cộng Đồng

社區參與階段



Other ideas for cities, county, VTA

Otras ideas para las ciudades, el condado y VTA Các ý tưởng khác cho các thành phố, quận và VTA

A

其他針對城市、縣和VTA的想法

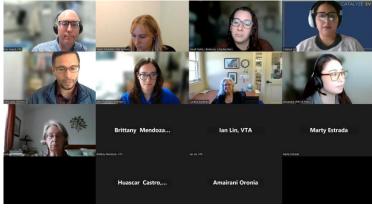


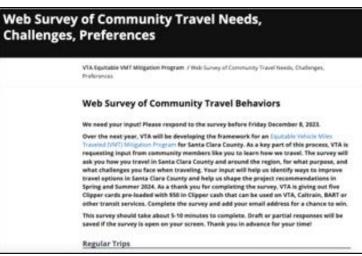
How Did We Engage?

¿Cómo propiciamos la participación? Chúng tôi đã tham gia như thế nào?

我們如何參與?













What Could a Program Fund?

¿Qué podría financiar este programa?

Chương Trình Có Thể Tài Trợ Những Gì?

計畫可以資助什麼?



Types of Mitigation Actions ¿Cómo usaremos sus comentarios? Các Loại Hành Động Giảm Thiểu 緩解行動類型



 Financial Incentives Incentivos financieros

Ưu Đãi Tài
 Chính

• 財政激勵措施



 Capital Projects Proyectos principales

• Dự Án Vốn

• 資本項目



Services

Servicios

Dịch Vụ

• 服務專案



Example Projects Ejemplos de proyectos Dự Án Mẫu

專案範例















How Did Your Input Shape the Framework?

¿Cómo influyó su aporte en el marco del programa?

Ý Kiến Đóng Góp của Quý vị Đã Định Hình Nền Tảng Như Thế Nào?

您的意見如何影響計畫框架?



Your Input Was Crucial to Developing the Framework Su aporte fue crucial para desarrollar el marco del programa Ý Kiến Đóng Góp của Quý Vị Là Rất Quan Trọng Để Phát Triển Nền Tảng

您的意見對制定該框架至關重要

- Several suggestions were provided by the community and would not have been included without your input.
- These are noted with an asterisk (*) on the next slides.

- La comunidad proporcionó varias sugerencias que no se habrían incluido sin su aporte.
- Estas se marcan con un asterisco (*) en las siguientes diapositivas.
- Một số đề xuất đã được cung cấp bởi cộng đồng và sẽ không được đưa vào nếu không có ý kiến đóng góp của quý vị.
- Các đề xuất này được ghi chú bằng dấu hoa thị (*) trên các trang trình bày tiếp theo.

- 社區提出了一些 建議,如果沒有 你們的意見,這 些建議就不會被 納入其中。
- 這些建議在下一 張幻燈片中以星 號 (*) 標出。



Financial Incentives Incentivos financieros Uu Đãi Tài Chính

財政激勵措施

- Offer education courses*
- Partner with community orgs for marketing / support*
- Allow multiple subsidies per household*
- Cover full cost if possible*
- Share info on supportive programs
- Ensure equitable access

- Ofrecer cursos de formación*
- Asociarse con organizaciones comunitarias para marketing / apoyo *
- Permitir múltiples subsidios por hogar*
- Cubrir el costo total si es posible*
- Compartir información sobre los programas de apoyo
- Garantizar un acceso equitativo

- Cung cấp các khóa hướng dẫn*
- Hợp tác với các tổ chức cộng đồng để tiếp thị / hỗ trợ*
- Cho phép nhiều khoản trợ cấp cho mỗi hộ gia đình*
- Bao trả toàn bộ chi phí nếu có thể*
- Chia sẻ thông tin về các chương trình hỗ trơ
- Đảm bảo việc tiếp cận công bằng

- 提供教育課程*
- 與社區組織合作 開展行銷/支援活 動*
- 允許為每個家庭 提供多項補貼*
- 盡可能覆蓋全部費用*
- 分享支援計畫的 資訊
- 確保公平獲取



Capital Projects Proyectos principales Dự Án Vốn

資本項目

- Plan with the community in mind, context-sensitive
- Plan at the countywide scale
- Consider safety and Complete Streets best practices
- Prioritize equity communities and vulnerable road users
- Include universal street design*

- Planificar teniendo en mente a la comunidad y teniendo en cuenta el contexto
- Planificar a escala de todo el Condado
- Considerar la seguridad y las mejores prácticas para las Calles Completas
- Priorizar las comunidades con necesidades de equidad y los usuarios vulnerables de las vías
- Incluir diseño universal de calles*

- Lập kế hoạch chú trọng đến cộng đồng, xem xét ngữ cảnh
- Lập kế hoạch ở quy mô toàn quận
- Xem xét các phương pháp hay nhất về an toàn và Đường Phố Hoàn Chỉnh
- Ưu tiên cộng đồng bình đẳng và những người tham gia giao thông dễ bị tổn thương
- Bao gồm thiết kế đường phố phổ biến*

- 在規劃時考慮到 社區的情況,因 地制宜
- 在全縣範圍內進行規劃
- 考慮安全和完整 街道的最佳實踐
- 優先考慮公平社 區和弱勢道路使 用者
- 包括通用街道設計*



Services Servicios Dich Vu

服務專案

- Consider ways to advertise and raise awareness
- Partner with community orgs for marketing / support*
- Consider cost and affordability*
- Ensure services are convenient to use, with few barriers to access*
- Ensure equitable access

- Considerar formas de publicitar y crear conciencia
- Asociarse con organizaciones comunitarias para marketing / apoyo *
- Considerar el costo y la asequibilidad*
- Asegurarse de que los servicios sean cómodos de usar y que existan pocas barreras para el acceso*
- Garantizar un acceso equitativo

- Xem xét các cách quảng cáo và nâng cao nhận thức
- Hợp tác với các tổ chức cộng đồng để tiếp thị / hỗ trợ *
- Xem xét chi phí và khả năng chi trả*
- Đảm bảo các dịch vụ thuận tiện để sử dụng, với ít rào cản để tiếp cận*
- Đảm bảo việc tiếp cận công bằng

- 考慮宣傳和提高 認識的方法
- 與社區組織合作 進行行銷/提供支 援*
- 考慮成本和可負擔性*
- 確保服務專案使 用方便,獲取障 礙少*
- 確保公平獲取



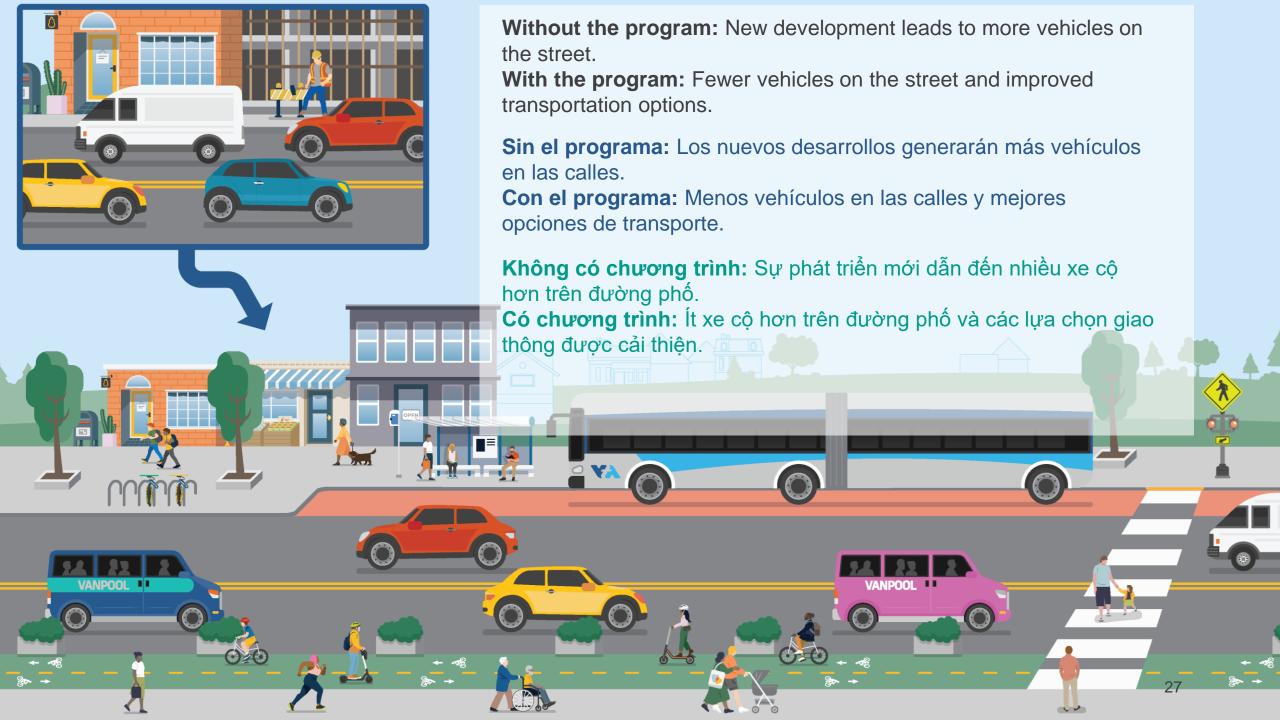
How Would the Program Affect You?

¿Cómo le afectaría el programa?

Chương Trình Ảnh Hưởng Đến Quý vị Như Thế Nào?

該計畫對您有何影響?





What Would This Program Mean For Equity Communities

¿Qué significaría este programa para las comunidades con necesidades de equidad? Chương trình này có ý nghĩa gì đối với Cộng Đồng Bình Đẳng?

該計畫對公平社區意味著什麼?

- Improve travel options in these communities by:
 - Increasing affordability
 - Improving infrastructure
 - Expanding service
- Help people get to work, school, and other places

- Mejorar las opciones de transporte en estas comunidades mediante:
 - El aumento de la asequibilidad
 - La mejora de la infraestructura
 - La ampliación del servicio
- La ayuda a las personas para que lleguen al trabajo, a la escuela y a otros lugares.

- Cải thiện các lựa chọn du lịch trong các cộng đồng này bằng cách:
 - Tăng khả năng chi trả
 - Cải thiện cơ sở hạ tầng
 - Mở rộng dịch
 vụ
- Giúp mọi người đến chỗ làm, trường học và những nơi khác

- 通過以下方式 改善這些社區 的出行選 擇:
 - 提高可負 擔性
 - 改善基礎 設施
 - 擴大服務
- 幫助人們前往 工作、學校和 其他地方



What Would This Program Mean For Cities and the County ¿Qué significaría este programa para las ciudades y el Condado? Chương trình này có ý nghĩa gì đối với các thành phố và Quận?

該計畫對城市和縣有什麼意義?

- Provide more options for reducing VMT from development projects
- Help meet environmental goals
- Streamline to help meet housing and job production goals
 - Valley Transportation Authority Solutions that move you

- Proporcionaría más opciones para reducir las VMT (conducción) desde los proyectos de desarrollo
- Contribuiría al cumplimiento de los objetivos medioambientales
- Aumentaría la eficiencia para ayudar a alcanzar los objetivos de vivienda y producción de empleo

- Cung cấp nhiều lựa chọn hơn để giảm Số Dặm Xe Chạy (VMT) (lái xe) từ các dự án phát triển
- Giúp đáp ứng các mục tiêu về môi trường
- Hiệu quả hóa để giúp đáp ứng các mục tiêu về nhà ở và tạo VANPO việc làm

- 為減少開發專 案產生的VMT(駕駛)提供更多選擇
- 説明實現環境目標
- 簡化流程,説 明實現住房和 就業生產目標

What Would This Program Mean For **Developers** ¿Qué significaría este programa para las empresas constructoras? Chương trình này có ý nghĩa gì đối với các nhà phát triển?

該計畫對開發商意味著什麼?

- Streamline environmental review process reducing uncertainty, and saving time and money
- Haría más
 eficiente el
 proceso de
 revisión
 ambiental:
 reduciría la
 incertidumbre y
 ahorraría tiempo
 y dinero

- Hiệu quả hóa quy trình đánh giá môi trường giảm sự không chắc chắn, tiết kiệm thời gian và tiền bạc
- 簡化環境審查 流程--減少不 確定性,節省 時間和金錢

What Would This Program Mean For the Environment ¿Qué significaría este programa para el medio ambiente? Chương trình này có ý nghĩa gì đối với môi trường?

該計畫對環境意味著什麼?

- Reduce
 Greenhouse Gas
 emissions
- Improve local air quality
- Help meet our climate goals

- Reduciría las emisiones de gases de efecto invernadero
- Mejoraría la calidad del aire local
- Ayudaría a cumplir con nuestros objetivos climáticos

- Giảm phát thải Khí Nhà Kính
- Cải thiện chất lượng không khí ở địa phương
- Giúp đáp ứng các mục tiêu về khí hậu của chúng tôi

- 減少溫室氣體 排放
- 改善當地空氣 品質
- 説明實現我們的氣候目標

/ANPOOL



VANPOO

Next Steps

Próximos Pasos

Các Bước Tiếp Theo

下一步



Program Next Steps Próximos Pasos Các Bước Tiếp Theo

下一步



Public Draft of Program Framework - Nov 2024

Borrador público del Marco del Programa: noviembre de 2024

Dự Thảo Công Khai về Nền Tảng Chương Trình - Tháng 11 Năm 2024

計畫框架公開草案 - 2024 年 11 月



Present to VTA Board - Early 2025

Presentación a la Junta Directiva de VTA - Principios de 2025

Trình Bày trước Hội Đồng Quản Trị VTA - Đầu Năm 2025

提交給 VTA 董事會 - 2025 年 初



(If interested) Cities, towns, the County, VTA determine program details – starting 2025

(Si están interesados) Las ciudades, los pueblos, el Condado y VTA determinan los detalles del programa, a partir de 2025

(Nếu muốn) Các thành phố, thị trấn, Quận, VTA xác định chi tiết chương trình - bắt đầu từ năm 2025

(如果有興趣)城市、城鎮、縣、VTA 確定 計劃細節 - 從 2025 年開始

Questions & Comments?

Preguntas y comentarios

Câu Hỏi và Nhận Xét

問題和意見



Questions & Comments Preguntas y comentarios Câu Hỏi và Nhận Xét

問題和意見

- Do these considerations accurately reflect your feedback?
- Do you have other questions or comments?
- •¿Estas consideraciones reflejan con precisión sus comentarios?
- •¿Tiene otras preguntas o comentarios?

- Những cân nhắc này có phản ánh chính xác phản hồi của quý vị không?
- Quý vị có câu hỏi hoặc nhận xét nào khác không?

- 這些考慮因素 是否準確反映 了您的回饋意 見?
- 您還有其他問題或意見嗎?



More Ways to Engage - and Thank You! Más formas de participar - ¡Y agradecimiento! Nhiều Cách Để Tham Gia - Và cảm ơn quý vị!

更多參與方式 - 謝謝!

More ways to engage:

- View report, videos, fact sheet on project website
- AskVTA on December 10th
- Email comments by December 18th
- Meetings with organizations on request

Más formas de participar:

- Vea el informe, los vídeos y la hoja informativa en el sitio web del proyecto
- Pregunte a VTA el 10 de diciembre
- Envíe sus comentarios por correo electrónico antes del 18 de diciembre
- Reuniones con organizaciones bajo solicitud

Nhiều cách để tham gia:

- Xem báo cáo, video, tờ thông tin trên trang web của dự án
- Hỏi VTA vào ngày 10 tháng 12
- Gửi nhận xét qua email chậm nhất là ngày 18 tháng 12
- Các cuộc họp với các tổ chức theo yêu cầu

更多參與方式:

- 在專案網站上查 看報告、視頻和 概況介紹
- 12 月 10 日向 VTA 提問
- 在12月18日前 通過電子郵件發 送意見
- 應要求與組織會面

Website: https://www.vta.org/EquitableVMT

Email: community.outreach@vta.org



Appendix L: Technical Advisory Group



Technical Advisory Group

Roster

The Technical Advisory Group for the VTA Equitable VMT Mitigation Program is comprised of the following individuals representing agencies across Santa Clara County, the region and State of California.

TAG Membership

| I AG Membership | |
|-----------------|--------------------|
| Agency | Name |
| Caltrans | Mark Leong |
| Caltrans | Melissa Hernandez |
| Caltrans | Yunsheng Luo |
| Campbell | Matthew Jue |
| Campbell | Rob Eastwood |
| Cupertino | David Stillman |
| Cupertino | Gian Martire |
| Cupertino | Luke Connolly |
| Cupertino | Matt Schroeder |
| Cupertino | Piu Ghosh |
| Gilroy | Cindy McCormick |
| Gilroy | Erin Freitas |
| Gilroy | Heba El-Guindy |
| Gilroy | Kraig Tamborini |
| Gilroy | Sharon Goei |
| Los Altos | Aida Fairman |
| Los Altos | Art Williams |
| Los Altos | Stephanie Williams |
| Los Altos | Steven Son |
| Los Altos Hills | WooJae Kim |
| Los Gatos | Jennifer Armer |
| Los Gatos | Nicolle Burnham |
| Los Gatos | Tracy Wang |
| Milpitas | Jay Lee |
| Milpitas | Jessica Dai |
| Milpitas | Roberto Alonzo |
| Monte Sereno | Daryl Jordan |
| | |



| Agency | Name |
|--|--------------------------|
| Morgan Hill | Adam Paszkowski |
| Morgan Hill | Jennifer Carman |
| Morgan Hill | Maria Angeles |
| Morgan Hill | Tiffany Brown |
| Mountain View | Ben Pacho |
| Mountain View | Diana Pancholi |
| Mountain View | Phillip Brennan |
| Metropolitan Transportation Commission (MTC) | Krute Singa |
| Palo Alto | Amy French |
| Palo Alto | Charlie Coles |
| Palo Alto | Srupath Patel |
| Palo Alto | Sylvia Star-Lack |
| San José | Charla Gomez |
| San José | Manjit Banwait |
| San José | Ramses Madou |
| San José | Wilson Tam |
| Santa Clara | Carol Shariat |
| Santa Clara | John Davidson |
| Santa Clara | Karen Mack |
| Santa Clara | Lesley Xavier |
| Santa Clara County | Ben Aghegnehu |
| Santa Clara County | Leza Mikhail |
| Santa Clara County | Robert Cain |
| Santa Clara County | Samuel Gutierrez |
| Saratoga | Bryan Swanson |
| Saratoga | David Dorcich |
| Saratoga | John Cherbone |
| SJSU/MTI | Hilary Nixon, PhD |
| SJSU/MTI | Serena Alexander, PhD |
| SJSU/MTI | Luana Chen |
| SJSU/MTI | Maxwell Belote-Broussard |
| Sunnyvale | Angela Wong |
| Sunnyvale | Dennis Ng |
| Sunnyvale | George Schroeder |
| Sunnyvale | Lillian Tsang |
| | |

Source: VTA TAG email list, Meeting Minutes for VMT Mitigation Program TAG Meetings 1 through 5, 2023-2024. Note that some TAG members joined or left agencies over the course of the project.



Appendix M: VMT Reduction Measures Workbook



Appendix M1: VMT Reductions Category Matrix



Project VTA Equitable VMT Mitigation
Deliverable VMT Reductions Category Matrix
Updated On 3/22/2024
Updated By MRiddle, Fehr & Peers

Workbook Structure

2

This table summarizes the structure and content presented in subsequent sheets.

VMT Reduction Strategies

Sheet and Column Number Section and/or Column Header

| | The purpose of this chart is to illustrate the wide range of VMT reductions a Data for this chart is sourced from the California Air Pollution Control Office | cers Association (CAPCOA), Handbook for Analyzing Greenhouse Gas Emission Reductions, A | Assessing Climate Vulnerabilities, and Advancing Health and Equity, December 202 |
|---|--|--|--|
| | CAPCOA link: https://www.caleemod.com/documents/handbook/full_handbook | | , |
| 3 | VMT Reduction Category Matrix | Description | Scoring Rubric (where applicable) |
| | VMT CATEGORY OVERVIEW | The first five columns present a brief overview of each archetype. | |
| 1 | VMT Reduction Category Names | Category name for six VMT reduction measure archetypes | |
| 2 | Representative VMT Reduction Measures | Set of representative VMT reduction measures included in each archetype. The representative, not exclusive. | ese are |
| 3 | Category Maximum VMT Reduction (Plan/Community Level) | The maximum VMT or GHG emissions reduction percentage associated with ear archetype for the Plan/Community scale (as opposed to the more local Project/S scale). This value is given for the archetype as a whole, based on CAPCOA documentation for transportation measures. | |
| 4 | VMT Type (Commute vs Total VMT) | The type of VMT that can be reduced by the measure. Two options are provided Commute (employment-based) VMT and Total VMT generated by all activity are | |
| 5 | VMT Reduction Application (New VMT vs All City VMT) | The subset of future VMT which the measure could help mitigate. Two options a provided as New VMT (only VMT from new development) and All City VMT (VM generated by all existing and future VMT areawide). | |
| | SUPPORTING INFORMATION | The next seven columns present more specific information about each argits representative VMT reduction measures and implemenation, feasibility, equity considerations. | ty, and |
| 6 | Literature Evidence (References) | Citation from CAPCOA indicating where to find further information about the evi supporting measure-specific VMT reductions. This is provided for each of the representative VMT reduction measures. Note: though published in December 2 CAPCOA constitutes the best distillation of research on VMT reduction measure effectiveness available. As additional information becomes available, it will be incorporated into project analysis, but CAPCOA represents a strong starting poi understanding the nuances of VMT reduction measure implementation and effect calculations. | er 2021, ure point for |
| 7 | VMT Reduction Range (Per Measure) | The range of VMT that could be mitigated with the implementation of each archerepresentative VMT reduction measures. This is based on CAPCOA 2021 documentation. Note: these are not necessarily additive (if multiple measures with implemented); see CAPCOA for details. | |

| 8 | Projects/Plans in Santa Clara County | VTA projects which are similar to the representative VMT reduction measures for each archetype. These are cited as examples of capital and operational projects that could be incorporated into a future VMT mitigation program. The source for these projects is the set of plan and policy documents compiled and provided by the VTA. The full list of projects and plans was reviewed and select projects chosen for inclusion here as a first step toward honing in on project types could be incorporated into a VMT mitigation program. | |
|----|--|--|--|
| | | (For internal purposes: plans and policies reviewed are saved here: W:\San Jose N Drive\Projects_SJ23_Projects\SJ23_2220_VTA_VMT_Mitigation_Program\Deliverables\ 144_Task_3_1_VMT_Reduction_Measures\01_FP_Internal_Draft\Plans) | |
| 9 | Cost Range (Low (\$) to High (\$\$\$)) | Relative cost estimate for implementation of each archetype's VMT reduction measures. These are provided for planning purposes and given as Low (\$), Medium (\$\$), and High (\$\$\$) and are based on planning/engineering judgement as well as the Cost Considerations information provided in CAPCOA. | |
| 10 | Project Cost (Total Cost, Examples) | Project cost estimates provided for specific VTA and non-VTA projects. These costs are currently presented in two forms - total project cost and cost per VMT, depending on data available. Note: as more information becomes available, this content will be provided in the form of cost (\$) per VMT reduced. | |
| 11 | Equity Framework Consistency | Summary of considerations regarding the equity implications of implementing each VMT reduction archetype. This is based on planning/engineering judgment, local and regional knowledge about VMT generation within Santa Clara County, and research information provided in CAPCOA. | |
| 12 | Feasibility Considerations | Summary of considerations regarding the feasibility of implementing each VMT reduction archetype generally and within the Santa Clara County (i.e., VTA) context. This is based on planning/engineering judgment, local and regional knowledge about Santa Clara County and local and regional agencies, and implementation recommendations provided in CAPCOA. | |
| | PRIORITIZATION | The remaining 7 columns include details about how each VMT reduction archetype ranks relative to different measures of attractiveness to stakeholders, equity, feasibility, and type. | |
| 13 | Equity: Meeting a Community Travel Challenge (Yes = 4, No = 0) | received during Phase 1 outreach. The top three ranked archetypes are identified with a Yes, the others are identified with a No. Scores are given as: Yes = 3, No = 0. | Yes = archetype was identified as one of the three most desireable/useful by the Community (based on Phase 1 outreach responses) No = archetype was not identified as one of the three most desireable/useful by the Community |
| 14 | Equity & Feasibility: Reduction Potential (Low = 1, Med = 2, High = 3) | provided as Low, Medium, and High. This is based on each archetype's Category | Low = The measure has a low (<10%) GHG reduction potential Med = The measure has a medium (between 10%-20%) GHG reduction potential High = The measure has a high (>20%) GHG reduction potential |
| 15 | Equity & Feasibility: Inter-Jurisdictional (Yes = 2, No = 0) | jurisdictional (i.e., operate at the countywide level rather than project/site or citywide level). Given the intent of this project to provide specifications for a countywide equitable VMT mitigation program that would expand opportunities for the full mitigation of VMT impacts and appeal to a range of jurisdictions and agency partners, inter-jurisdictionality is important. Scores are given as: Yes = 2, No = 0. | |
| 16 | Feasibility: Local Jurisdiction Support (Yes = 2, No = 0) | received during Phase 1 outreach. The top two ranked archetypes are identified with a | Yes = archetype was identified as one of the two most desireable/useful by local jurisdictions (based on Phase 1 local jurisdiction web survey responses) No = archetype was not identified as one of the two most desireable/useful by local jurisdictions |

| 17 | Feasibility: Implementation Challenge for VTA/Countywide Agency (Low = 2, Med = 1, High = 0) | land rights. This is based on the Feasibility Considerations column content, and is provided as Low, Medium, High. Scores are given as: Low = 2, Medium = 1, High = 0. | Low = VTA/other countywide implementing agency would likely be the sole or lead authority with full jurisdictional control over measure implementation (e.g., transit measures) Medium = VTA/other countywide implementing agency may have some degree of jurisdictional control (direct or indirect) over measure implementation, but is not solely responsible for implementing or achieving the measure. The broader community or other agencies may need to be involved in action implementation, which may be subject to collective action and other momentum issues. High = VTA/other countywide implementing agency would not have direct control over measure implementation, but may have the ability to partner, coordinate with, or inform the actions of others. |
|----|--|--|--|
| 18 | Feasibility: Type (Capital = 1 vs Operational = 0) | Identification of the type of project represented by each archetype, given as capital (i.e., capital improvement project) or operational (i.e., an operational or programmatic project). Given the sporadic funding stream associated with development, capital improvements which requrie a one-time investment are given more weight than operational improvments which require continuous funding. Scores are given as: Capital = 1, Operational = 0. | Capital = project consists of improvements which require time-limited investment in material assets (e.g., physical improvements, purchase of transportation vehicles, purchase of a facility) Operational = project consists of improvements which require recurring investments (e.g., staff salaries, recurring subsidies) |
| 19 | Total | The sum of all prioritization scores which provides a relative ranking of the proposed VMT reduction archetypes. | |

| 4 | Reduction Cost Matrix | Description | Scoring Rubric (where applicable) |
|----|----------------------------------|---|-----------------------------------|
| | VMT REDUCTION MEASURES | The first 12 columns pertain to proposed VMT reduction | measures |
| 1 | Number | A number index. | |
| 2 | VMT Reduction Measure | Measure name and CAPCOA #. | |
| 3 | Description | Measure description | |
| 4 | VMT Reduction: Target Population | Population(s) whose VMT will be the target of the VMT reduc | |
| | | include: EPC Low-VMT, EPC High-VMT, Non-EPC Low-VMT | • |
| 5 | VMT Reduction: Range | See above (definintion for column of the same name under A | •• |
| 6 | Literature Evidence ² | See above (definintion for column of the same name under A | rchetype Matrix). |
| 7 | VMT Type | See above (definintion for column of the same name under A | rchetype Matrix). |
| | (Commute vs Total VMT) | | |
| 8 | VMT Reduction Application | See above (definintion for column of the same name under A | rchetype Matrix). |
| | (New VMT vs All City VMT) | | |
| 9 | Sample Project | See above (definintion for column of the same name under A | rchetype Matrix). |
| 10 | Sample Project Description | Further description of the sample project based on details fro | m the published plan or |
| | | policy or other sources. | |
| 11 | Project Source | Report in which the project is described | |
| 12 | Project Type | Indication of whether the project represents a capital or operation | ational/programmatic |
| | | improvement. | |
| 13 | Typical Project Cost (A) | Project cost presented in dollars (\$). This includes capital and | |
| | | Based on documentation provided by the VTA; see in-sheet of | citations for more details. |
| | | | |
| 14 | VMT Reduction (B) | The estimated percent VMT that could be mitigated with the i | implementation of the VMT |
| | | reduction measure. This is based on CAPCOA 2021 docume | ntation. |
| 15 | Cost per VMT Reduced (A/B=C) | The estimated cost per VMT reduced based on the inputs de | tailed above for Typical |
| | | Project Cost and VMT Reduction. | |
| 4 | | | |

| | EQUITY CONSIDERATIONS | The next 6 columns indicate how the VMT reduction measures relate to the six equity definitions from the Equity Framework. | |
|----|---|--|--|
| 16 | No excess VMT would be generated by the new development in Santa Clara County. | Indication of whether the VMT reduction measure would advance the equity outcome | Yes = equity target is achieved No = equity target is not achieved |
| 17 | 2. EPC areas with low VMT rates would decrease, maintain, or increase their average VMT rate. | and quantified as: "X% reduction in the EPC areas with a low VMT rate of 19.2." Scores are given as: Countywide = 12, Citywide = 8, Neighborhood = 6, No = 0. | Countywide = VMT is reduced at the county-level for this area type Citywide = VMT is reduced at the city-level for this area type Neighborhood = VMT is reduced at the neighborhood-level for this area type |
| 18 | 3. EPC areas with high VMT rates would decrease their average VMT rate. | and quantified as: "X% reduction in the EPC areas with a high VMT rate of 45.3." Scores are given as: Countywide = 16, Citywide = 12, Neighborhood = 8, No = 0. | Neighborhood = VMT is reduced at the neighborhood-level for this area type |
| 19 | 4. Non-EPC areas with low VMT rates would decrease their average VMT rate. | and quantified as: "X% reduction in the non-EPC areas with a low VMT rate of 19.4." Scores are given as: Countywide = 4, Citywide = 2, Neighborhood = 0, No = 0. | Countywide = VMT is reduced at the county-level for this area type Citywide = VMT is reduced at the city-level for this area type Neighborhood = VMT is reduced at the neighborhood-level for this area type |
| 20 | 5. Non-EPC areas with high VMT rates would decrease their average VMT rate. | and quantified as: "X% reduction in the non-EPC areas with a high VMT rate of 41.2." Scores are given as: Countywide = 4, Citywide = 2, Neighborhood = 0, No = 0. | Countywide = VMT is reduced at the county-level for this area type Citywide = VMT is reduced at the city-level for this area type Neighborhood = VMT is reduced at the neighborhood-level for this area type |
| 21 | 6. Non-EPC areas would decrease their average VMT rate. | and quantified as: "X% reduction in the non-EPC areas with a VMT rate of 31.2." Scores are given as: Countywide = 4, Citywide = 2, Neighborhood = 0, No = 0. | Countywide = VMT is reduced at the county-level for this area type Citywide = VMT is reduced at the city-level for this area type Neighborhood = VMT is reduced at the neighborhood-level for this area type |
| | FEASIBILITY CONSIDERATIONS | The remaining four columns contain information pertaining to feasibility considerations for each VMT reduction measure. | |
| 22 | Fiscal Impact | The fiscal impact (i.e., cost) of the VMT reduction measure. Presented on a spectrum of High to Low, indicated with a series of icons. | Low = The measure has a low (<10%) GHG reduction potential Med = The measure has a medium (between 10%-20%) GHG reduction potential High = The measure has a high (>20%) GHG reduction potential |
| 23 | Implementation Challenge | The implementation challenge of the VMT reduction measure. Presented on a spectrum of High to Low, indicated with a series of icons. | |
| 24 | Political Challenge | The political challenge of the VMT reduction measure. Presented on a spectrum of High to Low, indicated with a series of icons. | |
| 25 | Implementation Party | Name of the party (or parties) that could implement the VMT reduction measure. | |
| | PRIORITIZATION | The remaining 15 columns include details about how each VMT reduction measure ranks relative to different measures of effectiveness, cost, and level of effort to implement. | |
| 26 | Project Type | improvement. Scores are given as: Capital = 10, Operational = 0. | Capital = project consists of improvements which require time-limited investment in material assets (e.g., physical improvements, purchase of transportation vehicles, purchase of a facility) Operational = project consists of improvements which require recurring investments (e.g., staff salaries, recurring subsidies) |
| 27 | Typical Project Cost (A) | Project cost presented in dollars (\$). Based on documentation provided by the VTA; see in-sheet citations for more details. No scores given (accounted for within row 29). | N/A - do not propose scoring this item since the value is included in row 29 |
| 28 | VMT Reduction (B) | The estimated percent VMT that could be mitigated with the implementation of the VMT reduction measure. This is based on CAPCOA 2021 documentation. | |
| 29 | Cost per VMT Reduced (A/B=C) | The estimated cost per VMT reduced based on the inputs detailed above for Typical Project Cost and VMT Reduction. Scores given as: Low = 10, Med = 5, High = 0. | Daily Cost per VMT reduced is: • Low = Less than a dollar per VMT reduced • Med = Tens of dollars per VMT reduced • High = Hundreds of dollars per VMT reduced or greater |
| 30 | No excess VMT would be generated by the new development in Santa Clara County. | · · | Yes = equity target is achieved No = equity target is not achieved |
| · | | | |

Sheet 1. Introduction

| 2. EPC week with low VMT mass would decrease, munitary, or increase less less warry VMT rates. 2. Supplier with Traces would decrease mean in the control of the outcome is evaluated as a Ver or No. 2. Supplier with Traces would decrease their average VMT rate. 2. Supplier with No. VMT rates would decrease their average VMT rate. 3. Supplier with Traces would decrease their average VMT rate. 3. No. EPC areas with high VMT rates would decrease their average VMT rate. 3. No. EPC areas with high VMT rates would decrease their average VMT rate. 3. No. EPC areas with high VMT rates would decrease their average VMT rate. 3. No. EPC areas with high VMT rates would decrease their average VMT rate. 3. No. EPC areas with high VMT rates would decrease their average VMT rate. 3. No. EPC areas with high VMT rates would decrease their average VMT rate. 3. No. EPC areas with high VMT rates would decrease their average VMT rate. 3. No. EPC areas with high VMT rates would decrease their average VMT rate. 3. No. EPC areas with high VMT rates would decrease their average VMT rate. 3. No. EPC areas with high VMT rates would decrease their average VMT rate. 4. No. EPC areas with high VMT rates would decrease their average VMT rate. 4. No. EPC areas with high VMT rates would decrease their average VMT rate. 4. No. EPC areas with high VMT rates would decrease their average VMT rate. 4. No. EPC areas with high VMT rates would decrease their average VMT rate. 4. No. EPC areas with high VMT rates would decrease their average VMT rate. 5. No. EPC areas with high VMT rates would decrease their average VMT rate. 5. No. EPC areas with high VMT rates would decrease their average VMT rate. 5. No. EPC areas with high VMT rates would decrease their average VMT rate. 5. No. EPC areas with high VMT rates would decrease their average VMT rate. 5. No. EPC areas with high VMT rates would decrease their average VMT rate. 5. No. EPC areas with high VMT rates would decrease their average VMT rate. 5. No. EPC areas with high VMT rates would decrease thei | | | | |
|--|----|---|---|--|
| and quantified as XV reduction in the EPC areas with a log NATT rate of 45.1" Scores - Clypyide - VATT is enduced at the city-level for this area type are given as a Country/ide - 16, city-de - 18, not per city - 18, not p | 31 | | and quantified as: "X% reduction in the EPC areas with a low VMT rate of 19.2." Scores | Citywide = VMT is reduced at the city-level for this area type |
| and quantified as "X" of eduction in the non-EPC areas with a low MIT ratio of 10.4" Storme are given as: Courtywice 4 - Q. Clyquide 2 - A. Replacemond - Y. No. 1 is reducted at the neighborhood - Verified is reduced at the neighborhood - Verified at the neighborhood - Verified is reduced - Verified - | 32 | 3. EPC areas with high VMT rates would decrease their average VMT rate. | and quantified as: "X% reduction in the EPC areas with a high VMT rate of 45.3." Scores | Citywide = VMT is reduced at the city-level for this area type |
| and quantified as: "Visit reduction in the non-EPC areas with a high MRT rate of 41.2". Sorous are given as: County-wide 4. (Citywide 2.4 Notified on (b) No = 0. Non-EPC areas would decrease their average VMT rate Sories for advoire. SuccessAdvancement of this outcome is evaluated as a Yes or No analystic and activation in the non-EPC areas with NAT rate of 31.2" Score are given as: County-wide = 4. (Dryvide = 2. Neighborhood = 0. No = 0. Sories for advoired and a quantified as: "Yes or yes or given as: Uniform the activation of the scale higher of the area byte or a given as: County-wide = 4. (Dryvide = 2. Neighborhood = 0. No = 0. Sories are given as: County-wide = 4. (Dryvide = 2. Neighborhood = 0. No = 0. Sories are given as: County-wide = 4. (Dryvide = 2. Neighborhood = 0. No = 0. Sories are given as: County-wide = 4. (Dryvide = 2. Neighborhood = 0. No = 0. Sories are given as: County-wide assessment of the implementation of the scale impact in a spectrum of High to Low, indicated with a series of icons. Sories are given as: High = 4. Ned = 6, Low 8. Political Challenge Political Challenge Political Challenge Political Challenge Presented on a spectrum of High to Low, indicated with a series of icons. Scores are given as: High = 4. Med = 6, Low 8. Political Challenge Presented on a spectrum of High to Low, indicated with a series of icons. Scores are given as: High = 4. Med = 6, Low 8. Political Challenge Presented on a spectrum of High to Low, indicated with a series of icons. Scores are given as: High = 4. Med = 6, Low 8. Implementation Party Implementation Party Name of the party (or parties) that could implement the VMT reduction measure. Presented on a spectrum of High to Low, indicated with a series of icons. Scores are given as: High = 4. Med = 6, Low 8. Implementation Party Impleme | 33 | 4. Non-EPC areas with low VMT rates would decrease their average VMT rate. | and quantified as: "X% reduction in the non-EPC areas with a low VMT rate of 19.4." | Citywide = VMT is reduced at the city-level for this area type |
| and quantified as: "XY recotled in the non-EPG areas with a VMT reduction measure. 2. Placed Impact 3.6 Flaced Impact 3.6 Flaced Impact 3.7 Implementation Challenge 3.7 Implementation Challenge 3.8 Political Challenge 3.8 Political Challenge 3.8 Political Challenge 3.9 Political Challenge 3.9 Political Challenge 3.9 Implementation Party 3.9 Im | 34 | 5. Non-EPC areas with high VMT rates would decrease their average VMT rate. | and quantified as: "X% reduction in the non-EPC areas with a high VMT rate of 41.2." | Citywide = VMT is reduced at the city-level for this area type |
| Low = Lass than \$1 per VMT reducted High = VMT reducted control of authority of the series of icons. Scores are given as: High = 4, Med = 6, Low 8. Implementation Challenge A qualitative assessment of the implementation challenge of the VMT reduction A qualitative assessment of the implementation challenge of the VMT reduction measure. No Scores are given as: High = 4, Med = 6, Low 8. A qualitative assessment of the implementation of the implem | 35 | 6. Non-EPC areas would decrease their average VMT rate. | and quantified as: "X% reduction in the non-EPC areas with a VMT rate of 31.2." Scores | Citywide = VMT is reduced at the city-level for this area type |
| measure. Presented on a spectrum of High to Low, indicated with a series of icons. Scores are given as: High = 4, Med = 6, Low 8. **Medium = VTA/other countywide implementation (e.g., transit measures) - Medium = VTA/other countywide implementation, but is not solely responsible for implementing agency may have some degree of the volt in place of the volt of the repension of the political challenge of the VMT reduction measure implementation, but may have the ability to partner, coordinate with, or inform the actions of others. **A qualitative assessment of the political challenge of the VMT reduction measure implementation, but may have the ability to partner, coordinate with, or inform the actions of others. **A qualitative assessment of the political challenge of the VMT reduction measure implementation, but may have the ability to partner, coordinate with, or inform the actions of others. **A qualitative assessment of the political challenge of the VMT reduction measure would likely garner political support/face little to no political challenge based on its interjurisdictional character and polemital to benefit countrywise implementation, but may have the ability to partner, coordinate with, or inform the actions of others. **Low = The VMT reduction measure would likely garner political support/face little to no political challenge based on its interjurisdictions and communities its would benefit. Overall imited buy-in from the full siste of Sartia Clara County jurisdictions may subject this measure to collective action and other momentum issued to benefit relatively few communities within the county. **A place of the part of the political support face the proposed of the part of the political support face the political support face the proposed of the part of the part of the proposed of the part of the part | 36 | Fiscal Impact | Presented on a spectrum of High to Low, indicated with a series of icons. Scores are | Low = Less than \$1 per VMT reduced Med = Tens of dollars per VMT reduced |
| Presented on a spectrum of High to Low, indicated with a series of icons. Scores are given as: High = 4, Med = 6, Low 8. Presented on a spectrum of High to Low, indicated with a series of icons. Scores are given as: High = 4, Med = 6, Low 8. In political challenge based on its interjurisdictional character and potential to benefit communities throughout the county. Medium = The VMT reduction measure would garner some political support but also face challenges due to the jurisdictions and communities it would benefit. Overall limited buy-in from the full slate of Santa Clara County jurisdictions may subject this measure to collective action and other momentum issues. High = The VMT reduction measure would likley garner little political support/face substantial political challenges based on its limited geographic reach and/or potential to benefit relatively few communities within the county. Name of the party (or parties) that could implement the VMT reduction measure. No scores given (accounted for within row 37). Total The sum of all prioritization scores which provides a relative ranking of the proposed VMT reduction = 20% Equity Considerations = 60% | 37 | Implementation Challenge | measure. Presented on a spectrum of High to Low, indicated with a series of icons. | authority with full jurisdictional control over measure implementation (e.g., transit measures) • Medium = VTA/other countywide implementing agency may have some degree of jurisdictional control (direct or indirect) over measure implementation, but is not solely responsible for implementing or achieving the measure. The broader community or other agencies may need to be involved in action implementation, which may be subject to collective action and other momentum issues. • High = VTA/other countywide implementing agency would not have direct control over measure implementation, but may have the ability to partner, coordinate with, or |
| scores given (accounted for within row 37). Total Total Total Total The sum of all prioritization scores which provides a relative ranking of the proposed VMT reduction measures. VMT reduction measures. Scoring is calibrated so: VMT Reduction = 20% Equity Considerations = 60% | 38 | Political Challenge | Presented on a spectrum of High to Low, indicated with a series of icons. Scores are | no political challenge based on its interjurisdictional character and potential to benefit communities throughout the county. • Medium = The VMT reduction measure would garner some political support but also face challenges due to the jurisdictions and communities it would benefit. Overall limited buy-in from the full slate of Santa Clara County jurisdictions may subject this measure to collective action and other momentum issues. • High = The VMT reduction measure would likley garner little political support/face substantial political challenges based on its limited geographic reach and/or potential |
| Total Total The sum of all prioritization scores which provides a relative ranking of the proposed Scoring is calibrated so: VMT reduction measures. VMT Reduction = 20% Equity Considerations = 60% | 39 | Implementation Party | | |
| | 40 | Total | The sum of all prioritization scores which provides a relative ranking of the proposed | VMT Reduction = 20% Equity Considerations = 60% |



VMT & GHG Reduction Strategies

Percentage of VMT or greenhouse gases that would be mitigated using each strategy

Filter strategies by:

Location context

Urban & Suburban

Rural

Scale of application

Project

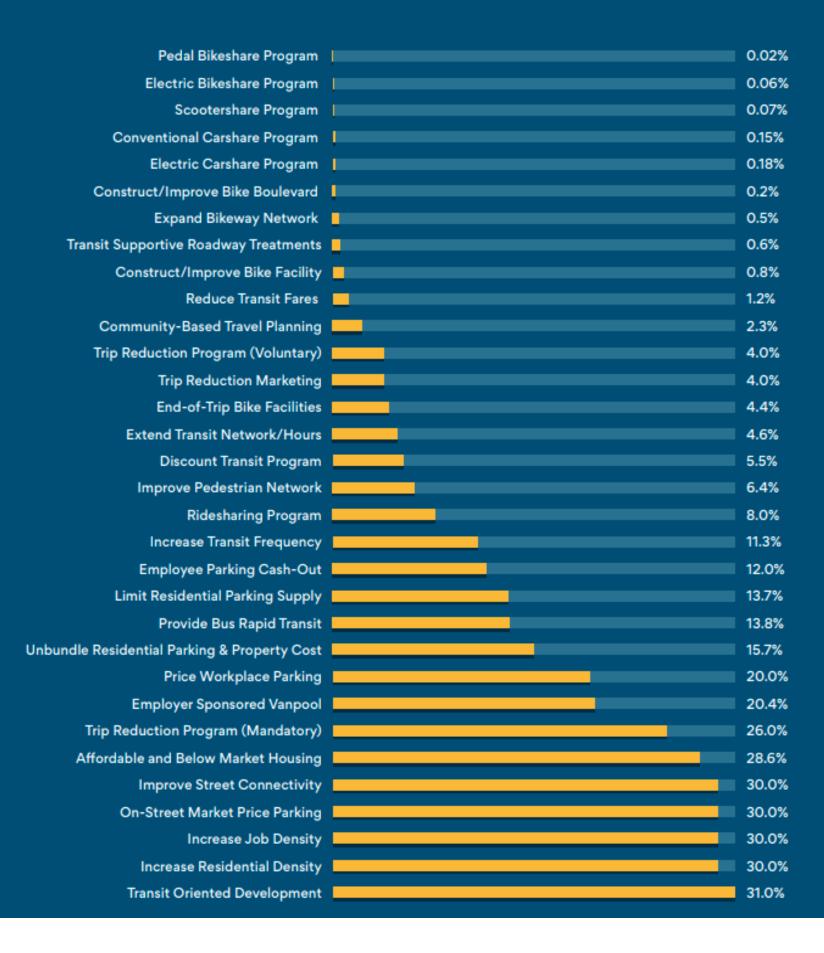
Community



California Air Pollution Control Officers Association (CAPCOA)

December 2021

Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate
Vulnerabilities, and Advancina Health and Equity (airquality.org)



VMT REDUCTION CATEGORIES

| | CTION CATEGORII E OVERVIEW | -0 | | | SUPPORTING INFORMATION | | | | | | | PRIORITI | ZATION | | | | | |
|-----------------------|--|---|---------------------------|---|--|--|---|--------------------------------|---|--|---|---------------------|---|--|---|--|---|-------------|
| 1 Category Names | Reduction Measures | 3 Category Maximum VMT Reduction (Plan/Community Level) | (Commute vs Total VMT) | 5 VMT Reduction Application (New VMT vs All City VMT) | 6 Literature Evidence ² (References) | 7 VMT Reduction Range (Per Measure) | 8 Projects/Plans in Santa Clara County | (Low (\$) to High (\$\$\$)) | (| 11 Equity Framework Consistency | 12 Feasibility Considerations | (Yes =4, No = 0) | 14 Equity & Feasibility: Reduction Potential (Low = 1, Med = 2, High = 3) | 15 Equity & Feasibility: Inter- Jurisdictional (Yes = 2, No = 0) | Local I Jurisdiction Support (es = 2, No = | Implementation Challenge for VTA/Countywid e Agency (Low = 2, Med = 1, High = 0) | 18 Feasibility: Type of VMT Measure (Capital = 1 vs Operational = 0) | 19 Total |
| Mobility | Carshare and rental car subsidies Bike- and scooter-share services Ridesharing program Implement or expand on-demand shuttle services | Less than 1 percent | Commute Total VMT | - All City VMT | - Carshare: T-21-A, T-21-B - Bilkeshare: T-22-A, T-22-B - Scootershare: T-22-C - Ridesharing Program: T-8 - Provide Shuttles (Gas or Electric): T-44 - Provide On-Demand Microtransit: T-45 | - Carshare: 0 to 0.18% - Bikeshare: 0 to 0.07% - Scootershare: 0 to 0.07% - Scootershare: 0 to 0.07% - Ridesharing Program: 0 to 8% - Provide Shuttles (Gas or Electric): Not-Quantified* - Provide On-Demand Microtransit: Not-Quantified* | VTA TDM Program (CMP 2021, p. 51) Milplas SMAT service Morgan Hill McGo service Palo Alb Link service Cupertino/Santa Clara Silicon Valley Hopper service | \$5-\$\$\$ | LADOT Bike Share Electrification: \$19.70 per VMT reduced | communities which may lack access to vehicles and mobility options. Sharing services are like to also be used by Non-EPC Low | Carsharing measures may, in some cases, increase WT by providing access to individuals who currently lack cars. The carshare measure is - also based, in part, on literature analyzing one-way carsharing service with a free-floating operational model and should be applied with caution if using a offerent form of carsharing (e.g., rounding), increasing access or fractional). Increasing access or fractional, increasing access or fractional in the presence of supporting facilities (e.g., bike lanes). | No | Low | Yes | Yes | High | Capital | 6 |
| Walking Facilities | Expanded before network Expanded bits network Expanded bits network Improved street connectivity Implementation of publicly-accessible trip-end facilities (e.g., bits parking and other supportive amenities) | | Commute Total VMT | accessible improvements) New VMT (residential improvements) | Enhance or Expand Pedestrian Network: T-18 Enhance or Expand Bike Network: T-19-A, T-19-B, T-20 Street Connectivity: T-17 | Enhance or Expand Pleastrian Network: 0 to 0.8% Enhance or Expand Blike Network: 0 to 6.4% Street Connectivity: 0 to 30% | - VTA 2021 Congestion Management Program Document (CMP 2021) - Valey Transportation Plan 2040 (VTP 2040) - Multimodal Improvement Plans developed by cities (e.g., Mountain View Clywide MIP, Santa Carra MIP) - Salkepfer projects in Countywide Bicycle Plan and/or city plans (e.g., VTA planned interchange improvements (CMP in the CMP, p. 86), Los Gatos Bicycle Plan projects, Santa Clara Bicycle Plan projects) | | - LADOT Active Streets Connections: \$3.55 per WITT reduced? - VATT reduced? - LADOT Active Transportation Corridors: \$1.90 pv WITT reduced? - LADOT Signal Enhancements (TOUCAN and HAWK Signals): \$4.50 per WITT reduced? - LADOT Signal Enhancements (TOUCAN and HAWK Signals): \$4.50 per WITT reduced? - Bernardo Caltrain Bike/Ped Undercrossing (VTA-118): \$23M - Homestead Corridor Improvements (VTA-119): \$14.6M - \$R237/Maude Avenue Interchange Improvement \$200M | because measures provide viable er alternatives to automobile use. Most impactful where facilities support non-automobile commulting and access to daily needs. Less effective if commun is located very far from employment centers. | transportation connectivity is improved. | Yes | Low | No | No | Med | Capital | 7 |
| Do Ĉlose By | Increased job density Transil-criented development Increased density of affordable and below market rate housing near transit Housing Subsidy Program (HRSP) | | - Commute - Total VMT | - New VMT | Increased Residential Density: T-1 Increased Job Density: T-2 Increased Job Density: T-2 Increased Job Density: T-2 Increased Job Density: T-3 Integrate Alforation and Below Marker Rate Housing: T-4 Increase Alforation and Below Marker Rate Housing: T-4 Increase I | Incrassed Residential Density: 0 to 30% incrassed Job Density. 0 to 30% incrassed Job Density. 0 to 30% incrassed Job Density. 0 to 30% increased Job Density. 0 to 31% increased Job Density. 0 to 28.6% increased increased Job Density. 0 to 28.6% increased increased Job Density. 0 to 28.6% increased Job Density. 0 to 33% increased Job Density. 0 to 34% increased Job Density. | VTA TOM Program (CMP 2021, p. 51). VTA Transit-foriented Development Program (CMP 2021, p. 77). City-led plans for TOD, station area development, and urban villages. | | HSP (estimate): \$300 to \$100,000 per VMT ⁵ | communities, by bringing residential resea into closer proximity to jobs and other amenities and providing greater multimodal connectivity. | These measures depend upon new construction which faces numerous financial and political hurdles. | Yes | High | No | No | High | Capital | 8 |
| | Implementation of transit-priority roadway treatments such as signal priority or dedicated lanes Provide bus rapid transit | 15 percent | Commute Total VMT | • All City VMT | Transik-Supportive Roadway Improvements: T-27 ¹⁰ Provide Bus Rapid Transit T-28 ¹⁰ | Transit-Supportive Roadway Improvements: 0 to 0.6% Provide Bus Rapid Transit: 0 to 13.8% | VTP 2040 VTP 2040 2014 Short-Range Transit Plan Transit Asset Management Plan (2018) Note: These projects/plans are not exclusively capital-specific, but do include some capital projects. | | Purchase of 48 electric buses (VTA-7): \$300k Paratransif Red procurement (VTA-32): \$37M VTA estimated costs for transit priority improvements on Senter Road in San Jose (2023) -\$500k \$1.2M for attached bus bub-outs with mine signal work. -\$400k \$1.2M for attached bus bub-outs with mine signal work of the sentence of the sen | providing viable alternatives to automobile use. Most impactful for EPC Low- and High-VMT or communities where new facilities and/or services support non- | require capital investment which may or be very costly. Costs associated with frequency improvements can range from minor (e.g., signal enhancements) to major (e.g., larger ss capital investments). | Yes | Med | Yes | No | Low | Capital | 11 |
| Enhancements | • Increased transit service frequency | | Commute Total VMT | - All City VMT | Extend Transit Network Coverage or Hours: T-25 Increase Transit Service Frequency: T-28 ¹⁹ | Extend Transit Network Coverage or Hours: 0 to 4.8% Increase Transit Service Frequency: 0 to 11.3% | VTA TDM Program - VTA-implemented Express Bus Partnership Program and other service partnerships (GMP 2021, p. 51) 2-2023 8 (2041 Transit Service Plan - VTA High Capacity Transit Study (2024) Note: These projects/plans are not exclusively operational-specific, but do include some operational projects. | | On-Demand Paratransit Pilot (VTA-33): \$2M | Same as above | Expanding transit network coverage, hours or frequency would involve increases in ongoing operating costs. This would require a steady, predictable revenue given that it is undesirable (and less effective in terms of ridership and VMT reduction) to institute improved service only to scale it back soon thereafter. Additionally, increasing service frequency in particular may require firing more vehicle operators and other staff, which can prove challenging. | Yes | Med | Yes | No | Med | Operational | 9 |
| Carpool Incentives | Subsidized or free transit passes Subsidized or free passes for bike- and scooler-share services Subsidized or free passes for on- demand shuttles E-bike subsidies Vanpool Subsidized bike leasing Oommute trip reduction (CTR) services (e.g., Guaranteed Ride Home Program) | | Commute | | - Subsidized Transil Passes: T-9 - Killesharing Pogam and TMA: T-8 - Employer Varpock: T-11 - CTR (Voluntary): T-5 - CTR (Mandatory): T-6 | - Subsidized Transil Passes: 0 to 5.5% Ridesharing Program and TMA: 0 to 8% - Employer Varpool: 0 to 20,4% - CTR (Voluntary): 0 to 4% - CTR (Mandatory): 0 to 28% | - VTA TDM Program (CMP 2021, p. 51). includes future TDM coordination to support project-site-level implementation VTA-implemented Vanpool Subsidy Program (CMP 2021, p. 58) Commute til preduction programs promoted and/or implemented by Mountain View TMA and Palo Alto TMA. | | LADOT Transit Past Pilot Program: \$9.55 per VM reduced VTA projects: TDM Program Guide (VTA-61): \$900k over two years Countywide Micromobility (Bike-Scooter) Support (VTA-56): \$5M over two years | impactful for EPC Low-WfT communities and would likely be used by members of Non-EPC Low-WfT communities as an alternative mobility option. | (a) application of a suite of measures that work in concert to reduce vehicile trips and (b) regular monitoring and reporting to ensure the calculated VMT reduction matches the observed VMT reduction. | | Low | Yes | Yes | Med | Operational | 6 |
| Change Travel Cost | Unbunded parking from residential rent to dissuade new lenants from having and using personal automobiles Market prized on-street parking to deter people from using automobiles and/or to encourage a park-once behavior Reduced or free transit fares Express lane pricing. | 30 percent | Commute Total VMT | New VMT (residential) All City VMT (on- street parking) | Unburdle Residential Parking Costs from Property Cost: T-16 Marktet Price Parking (on-street): T-24 Reduced Transit Fares (up to 50% reduction): T-29 Reduced Transit Fares (up to 50% reduction): T-29 | Uhbundle Residential Parking, 0 to 15.7% Market Price Parking; 0 to 30% Reduced Transit Faires (up to 50% reduction): 0 to 1.2% | VTA TDM Program (CMP 2021, p. 51) Unbunded paring at recent residential developments in San Jose and other cities in Santa Clara County | \$- \$ \$ | Need cost examples | impaciful for Non-EPC High VMT communities, though. If implemented in the absence of alternatives to driving it would negatively impact all communities notably EPCs. Free transit would benefit EPC communities, primarily when coupled with high- | It These are some of the most effective measures but require the political appetite to price parking and decrease financial barriers to alternatives to driving. When pricing on-street parking, the best practice is to allow for dynamic adjustment of prices to ensure approximately 85 percent occupancy, which helps prevent induced VMT due to circling behaviors as individuals search for a vacant parking space. | No | High | Yes | No | High | Operational | 5 |

- Notes:

 1. The percent reduction in VMT based on CAPCOA guidance is the same as the percent reduction in GHG emissions

 2. CAPCOA refers to the California Air Polution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity, August 2021, accessible from https://www.wia.org/sibes/ide/fault/files/2022-99/SCIP_FY822-41_Approved_6-2-2022.pdf

 3. For more information about project these accompanied by a VTA-number designation, refer to the VTA's Projects webside, available from https://www.via.org/sibes/ide/fault/files/2022-99/SCIP_FY822-41_Approved_6-2-2022.pdf

 4. For more information about projects that do not include a "VTA-number" designation, refer to the VTA's Projects webside, available from https://www.via.org/sibes/de/projects

 5. For more information, refer to Pers & Perse, Price Out, VZQ2, available from https://www.wia.org/sibes/de/projects

 6. LADOT project costs of dollar per VMT derived for a SCAGIA-DOT WMT reduction pilot program.

 7. Note, costs presented are from the year of the referenced planite-poor and have not been escalated.

 8. These measures are identified by CAPCOA as supporting or non-quantified. Although not quantifistively evaluated in the Handbook, these measures may achieve emissions reductions and co-benefits.

 9. The LADOT cost per VMT reduction given transit increasing transit service frequency (Measure T-26) and implementing transit-supportive roadway treatments (Measure T-27) are mutually exclusive with bus rapid transit (BRT) (T-28) would cover all of the community's transit routes, and therefore no additional frequency or time improvements refered to additional frequency or time improvements would be attainable (T-26 and T-27).

 It was assumed that bus rapid transit (BRT) (T-28) would cover all of the community's transit routes, and therefore no additional frequency or time improvements would be attainable (T-26 and T-27).

REDUCTION COST MATRIX

| MT Miti | igation Actions for the | | tion Program | n Framework | Specifications | | | | | | | TION COST EVALUATIO | | | | STENCY EVALUATI | - |
|-------------|---|---|--|--|--|--|--|---|--|--|--|--|--|--|---|--|--|
| 1 Number | 2 VMT Reduction Measure | 3 Description | 4 VMT Reduction: Target Population | 5 VMT Reduction: Range | 6 Literature Evidence ^{1,2} | 7 VMT Type | 8 VMT Reduction Application | 9 Starting Project | 10 Sample Project Description | 11 Project Source | 12 Project Type | 13 Daily Project Cost (A) | 14 Daily VMT Reduction (B) | 15 Daily Cost per VMT Reduced (A/B=C) | generated by the new | 17 ÆPC areas with low VMT rates would decrease, maintain, or increase their average VMT rate. | rates would decrease their |
| Options | | | EPC Low-VMT, EPC High-VMT, Non-EPC Low-VMT, Non-EPC High-VMT | Percentage Based on Literature Evidence | CAPCOA Citation | Commute VMT, Total VMT | New VMT, All City VMT | | | | Capital, Operational Prioritization values: (Capital = 10 vs Operationa = 0) | Dollars (\$) per Day (Includes capital and administrative costs) Prioritization Value: I Capitured in column 15 | Daily VMT Reduced per Project Lifespan Prioritization Value: Captured in column 15 | Dollars per VMT Reduced per Day Prioritization values: (Low = 10, Med = 5, High = 0) | Yes (Low-High) or No Portion of 11,420 Excess VMT Reduced Prioritization Value: Yes= 20; No = 0 | Yes (Low-High) or No VMT reduction in the EPC areas with a low VMT rate of 19.2. Prioritization Value (Scale of VMT affected): Yes: Countywide = 12, Citywide, 8, Neighborhood = 6; No = 0 | with a high VMT rate of 45.3. Prioritization Value (Scale of VM affected): Yes: Countywide = 16, Citywide, 1 |
| 1 | | This measure will implement transit- supportive treatments on the transit routes serving the plan/community. Transit-supportive treatments incorporate a mix of roadway infrastructure improvements and/or traffic signal modifications to improve transit travel times and reliability. | EPC Low-VMT | Up to 0.6% percent | T-27 - Implement Transit- Supportive Roadway Treatments | | All City VMT | King Road Transit Speed & Reliability Improvements | Install side-running dedicated bus lanes and Transit Boarding Islands on King Road corridor from Mabury Road in the north to Capitol Expressway in the south. Assume that all current stops (approximately 40) would be upgraded with Transit Boarding Islands and associated amenities (e.g., shelters, benches, and either PCO or thicker AC bus pads), use existing transit priority system, and lower-infrastructure siderunning bus lanes would be added (i.e. no change to curb and gutter, no red pavement coloring). | priority improvements in the VTA High-Capacity Transit Study, 2024. City of San Jose is currently completing the King Road Complete Streets Plan which would include pedestrian, blevçle and transit improvements - complete late spring 2024. | Capital | \$1,681 | . 25 | \$ 67 | No | Neighborhood VMT Reduction | Neighborhood VMT Reduction |
| 2 | Implement Electric Bike Subsidy (Precedent Programs in California and Colorado; Literature Review) ³ | | EPC High-VMT, Non-EPC Low-VMT, | per day per bicycle ³ | Non-CAPCOA literature review: California E-Bike Incentive Project (2023); Revisting Average Trip Length Defaults and Adjustment Factors for Quantifying WMT Reductions from Car Share, Bike Share, and Scooter Share Services (2020); Denver E-Bike Voucher Project; Motives, perceptions and experiences of electric bicycle owners and implications for health, wellbeing and mobility (2016); Impacts of E- bike Ownership on Travel Behavior: Evidence from three Northern California rebate programs (2023) | | All City VMT | Means-based Subsidies for Purchase E-Bikes | of Improve access to e-bikes by providing subsidies for Santa Clara County residents to purchase e-bikes. Subsidies would be means-based provide a greater subsidy to lover- income households and equity community areas. Program would expand the reach of currentiplanned e- bike subsidy programs which are generally limited geographically or have limited budgets. | current Denver E-bike Rebate Voucher Program, the upcoming California E-Bike Incentive Project, and the the City Chrysalis pilot project in Gilroy in 2021. | Capital | \$4,343 | 7,500-13,04 | 0 \$0.33-\$0.58 | Yes | Citywide VMT Reduction | Citywide VMT Reduction |
| 3 | | This measure will implement an employer- sponsored vanpod service. Vanpooling is a flexible form of public transportation that provides groups of 5 to 15 people with a cost effective and convenient rideshare option for commuting | EPC High-VMT, Non-EPC High-VMT | | T-11 - Provide Employer- Sponsored Vanpool | Commute VMT | All City VMT | | Conduct outreach to large non-office employers (e.g., warehouses, food processing facilities, medical centers) is facilitate the formation of vanpools, and fully subsidize the costs of vanpooling from home to worksite. Vans can be purchased or leased. Vanpools would have to start or end in Santa Clara County. | Community-Based Transportation Plan for Gilroy, 2006, and extending the existing MTC Regional Vanpool Subsidy Program and VTA's supplemental subsidy | Operational | \$5,983-\$17,596 | 11,807-34,72 | 5 \$0.51 | Yes | Countywide VMT Reduction | Countywide VMT Reduction |
| OPOSED I | MEASURES NOT QUANTIFIED AT | THIS TIME | | | | | | | | | | | | | | | |
| 4 | VTA Better Bus Stops Passenger Facilities & Amenities Improvements | This measure will implement transit- supportive treatments on the transit routes serving the planfornmunity. Transit supportive treatments incorporate a mix of roadway infrastructure improvements and/or traffic signal modifications to improve transit travel times and reliability. | improvements generating and geographic coverage however, a direct link from | nsists of bus stop amenity g substantial VMT reductio e). These measures may g m this to VMT reduction is | replacements, and repairs. There is ns in and of themselves (i.e., in the generate GHG emissions reductions not documented. ed to see transit service frequency, | e absense of wholesale s based on some reduct | changes to transit frequency tion in dwell time at stops, | VTA Better Bus Stops Passenger Facilities & Amenities Improvements | Install new shelters and shelter benches sidewalk expansion for transit landing area, shelters, other amenities; sidewal repair as necessary, and bus pads at higher-ridership bus stops around the VTA system. Amenities may be new, or may be replacing old/deteriorated items | Program, ongoing k | Capital | \$7,840 | | | | | |
| 5 | | This measure requires below market rate (BMR) housing. BMR housing provides greater opportunity for lower income families to live closer to job centers and achieve a jobs/housing match near transit. It is also an important strategy to address the limited availability of affordable housing that might force residents to live far away from jobs or school, requiring longer commutes. | This VMT reduction meas focused on land developn quickly, because the med mitigation for transportation | sure is multifaceted and we ment VMT mitigation only. chanism for delivering affor | well defined, and would delay the i bould need extensive evaluation to d This measure is not conducive to d dable housing is unknown. Caltran and local jurisdictions housing et that any VMT mitigation to deliver i | determine if it feasible for delivering a countywide is is beginnig to support | r a VMT mitigation program VMT mitgation program affordable housing as | Means-based Housing-Relocation Subsidy Program | Provide grants, zero-interest loans, or monthly subsidies to offset the housing cost differential between high accessibility areas/low VMT and low accessibility areas/high VMT areas. | Fehr & Peers 2023 paper "Priced Out" (available at https://www.fehrandpeers.com/wo- | | Costs will depend on market rates for housing in low VMT and high VMT areas; examples are shown in Fehr & Peers Priced Out paper. | | | | | |
| 6 | Implement Commute Trip Reduction Program (Voluntary) (CAPCOA T-5) | This measure will implement a voluntary commute trip reduction (CTR) program with employers. CTR programs discourage singleoccupancy vehicle trips and encourage alternative modes of transportation such as carpooling, taking transit, walking, and biking, thereby reducing VMT and GHG emissions. | Based on conversations t | | greed to not quantify this measure. | | | Funding for Incentives & Promotions to Use Alternative Modes | Provide additional funding for incentive for commuters to use alternative modes building on an existing platform / platform such as VTA SmartCommute or Palo Alto TMA "BikeLove" program. Funds could be used to increase the amount of the incentives, expand to new populations/areas, or both. | s, SmartCommute program (in soft launch for internal VTA employees in early 2024), and the Palo Alto TMA "Bike Love" incentive program (see | | Cost of incentives can be variable; for instance PATMA Bike Love program allows \$5 per day, up to \$600 per year. Additional administration costs. | | | | | |

Note:
1. The percent reduction in VMT based on CAPCOA guidance is the same as the percent reduction in GMC emissions
2. CAPCOA pullations with Tobased on CAPCOA) Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity, August 2021, accessible from https://www.airquality.org/Climate/Change/Documents/Handbook/h2OPublic/h2ODraft_2021-Aug pdf.
3. The following reports and research articles were consultant for the means-based stabilities for purchase of exhibits.

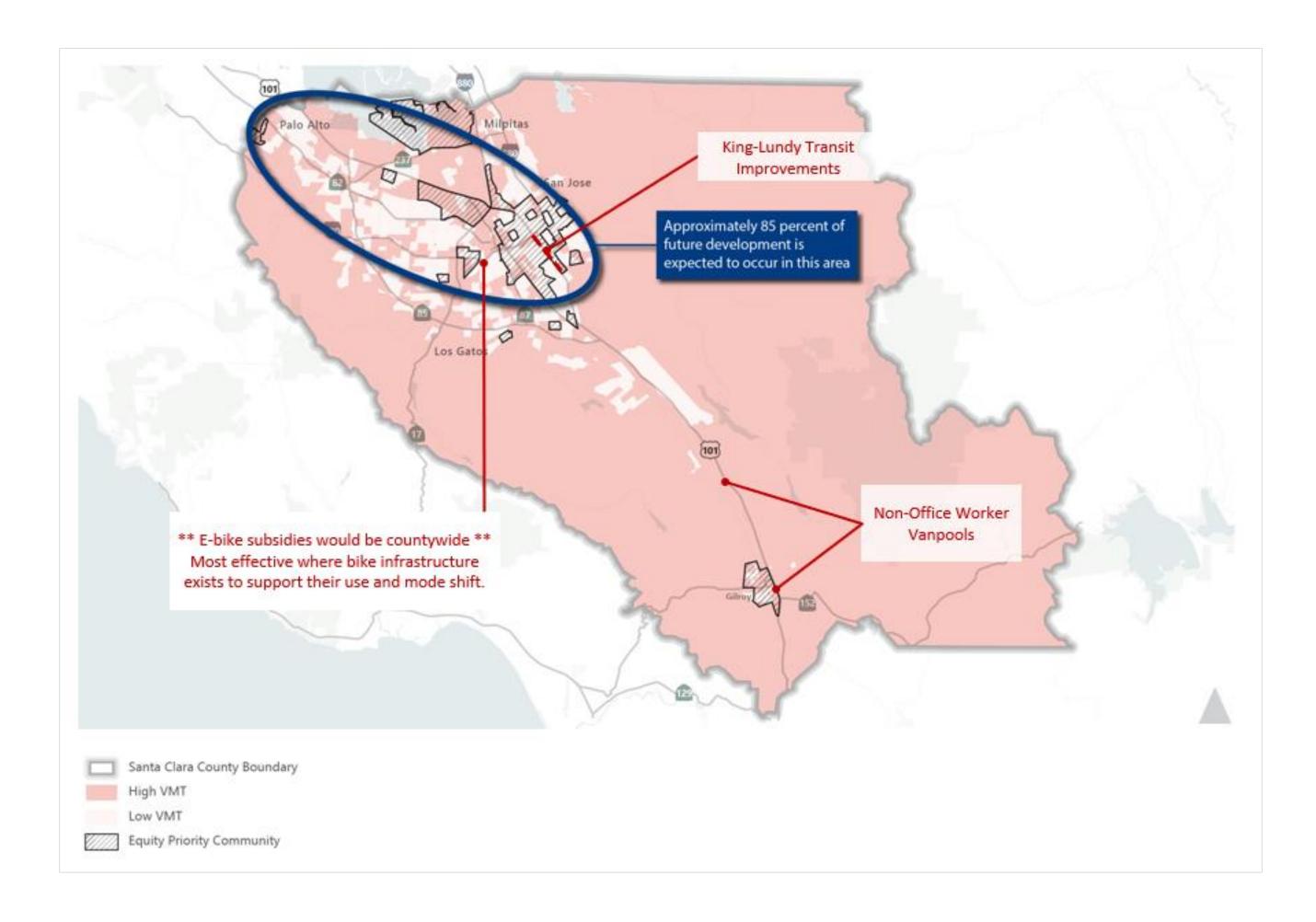
Care Control of the Percentage of the VMT reduction quantification for the means-based stabilities for purchase of exhibits.

Care Control of the Percentage of th

REDUCTION COST MATRIX

| VMT Miti | gation Actions for the | | | | FEASIBILITY CO | ONSIDERATIONS | S EVALUATION | | |
|-------------|---|---|--|--|---|---|---|---|-------------|
| 1 Number | 2 VMT Reduction Measure | 19 4Non-EPC areas with low VMT rates would decrease their average VMT rate. | 20 Shon-EPC areas with high VMT rates would decrease their average VMT rate. | 21 6The non-EPC areas would decrease their average VMT rate. | 22 Fiscal Impact Prioritization Value: High = 4, Med = 6, Low = 8 | 23 Implementation Challenge Prioritization Value: High = 4, Med = 6, Low = 8 | 24 Political Challenge Prioritization Value: High = 4, Med = 6, Low = 8 | 25 Implementation Party Prioritization Value: N/A, addressed under column 23 | 40 Total |
| Options | | with a low VMT rate of 19.4. Prioritization Value (Scale of VMT affected): | Yes (Low-High) or No VMT reduction in the non-EPC areas with a high VMT rate of 41.2. Prioritization Value (Scale of VMT affected): Yes: Countywide = 4, Citywide, 2, Neighborhood = 0; No = 0 | affected): | | | | Agency Name | |
| 1 | Implement Transit-Supportive Roadway Treatments (CAPCOA T-27) | Neighborhood VMT Reduction | Neighborhood VMT Reduction | Neighborhood VMT Reduction | Low | Low | Los | w City of San Jose, with VTA assistance | 49 |
| 2 | Implement Electric Bike Subsidy (Precedent Programs in California and Colorado; Literature Review) ³ | No VMT Reduction | No VMT Reduction | No VMT Reduction | Medium | High | High | VTA could lead, in partnership with a bicycle or environmental-focused nonprofit. | 72 |
| 3 | Provide Employer-Sponsored Vanpools (CAPCOA T-11) | No VMT Reduction | No VMT Reduction | No VMT Reduction | Low | Medium | Medium | VTA could lead, potentally building on the existing MTC/Commule With Enterprise progam. Either way it might be beneficial to partner with a local CBO/nonprofit for outreach and multilingual assistance. | 75 |
| | MEASURES NOT QUANTIFIED AT | | | | | | | VITA | |
| 4 | VTA Better Bus Stops Passenger Facilities & Amenities Improvements | | | | | | | VTA | |
| 5 | Integrate Affordable and Below Market Rate Housing (CAPCOA T-4) | | | | | | | VTA, in partnerships with cities and/or non-profits? | |
| 6 | Implement Commute Trip Reduction Program (Voluntary) (CAPCOA T-5) | | | | | | | VTA, perhaps in partnership with existing TMAs such as Palo Alto TMA or MV TMA | |

nceritives.org/
//energyoffice.colorado.gov/transportation/ebikes/can-do-colorado-ebike-pilot-program
//senergyoffice.colorado.gov/transportation/ebikes/can-do-colorado-ebike-pilot-program
//sutment Factors for Quantifying VMT Reductions from Car Share. Bike Share, and Scooler Share Services (2020): https://ww2.arb.ca.gov/sites/default/files/auction-proceeds/sharedmobility_technical_052920.pdf
//gov.org/covernment/Agencies-Departments-Offices/Agencies-Departments-Offices-Directory/Climate-Action-Sustainability-Resiliency/News-Events/News-2023/Derwer-E-like-and-E-Cargo-Bike-Rebate-Returns-January-31%20



Appendix M2: VMT Mitigation Actions Quantification



Project VTA Equitable VMT Mitigation
Deliverable VMT Reductions Categories Matrix
Updated On 3/19/2024
Updated By MRiddle, Fehr & Peers

Workbook Structure

This table summarizes the structure and content presented in subsequent sheets.

Sheet and Column Number Section and/or Column Header

| 2 | Mitigation Summary | Summary of the VMT reductions and costs associated with potential mitigation actions. |
|---|--------------------|--|
| 3 | Mitigation Info | Summary of the program structure and assumptions incorporated into VMT reduction quantification. |
| 4 | King Transit | VMT reduction calculation for King-Lundy Enhanced Transit: Enhance Local Transit Frequency, Capacity, and Reliability. |
| 5 | E-Bike Subsidies | VMT reduction calculation for e-bike subsidies. |
| 6 | Vanpool | VMT reduction calculation for non-office worker vanpool service. |

MITIGATION SUMMARY

Tables below present a summary and comparison of VMT reductions, costs, and other program attributes of each proposed VMT reduction measure. VMT figures are currently based on Year 2015 travel.

| # | Mitigation Action Name | Mitigation Type | Project Lifespan | Daily VMT Reduction | Annual VMT | Lifespan VMT | Daily Cost of | Annual Cost of | Lifespan ost of | Daily Cost per VMT | Annual Cost per | Annual Cost per | Lifespan Cost per |
|---|---|-----------------|------------------|---------------------|--------------------------|-----------------------------|-------------------|------------------------------|-------------------|--------------------|------------------|-----------------|-------------------|
| | | | (Years) | (Avg Day) | Reduction | Reduction | Mitigation Action | Mitigation Action | Mitigation Action | (Avg Day) | VMT | VMT | VMT |
| | | | | | (Avg Year) | | (Avg Day) | (Avg Year) | | | (First Year ROI) | (Avg Year) | |
| 1 | King Road Transit Speed & Reliability Improvements | Capital | 25 | 25 | 8,745 | 218,631 | \$ 1,34 | 8 \$ 467,680 | 11,692,000 | 53.48 | \$ 1,336.96 | \$ 53.48 | \$ 53.48 |
| | Countywide Means-Based Subsidies for Purchase of E- Bikes (Program funded fro 25 years with ebikes replaced every 7 years) | Capital | 25 | 7,500 - 13,040 | 2,602,500 - 4,524,880 | 18,217,500 - 31,674,160 | | 3 \$ 1,507,143 | 3 \$ 10,550,000 | \$0.33 - \$0.58 | \$2.33 - \$4.05 | \$0.33 - \$0.58 | \$0.33 - \$0.58 |
| | Organize and Subsidize Vanpools for Non-Office Workers in Santa Clara County | Operational | 25 | 11,807 - 34,725 | 3,069,724 - 9,028,600 | 76,743,098 - 225,714,995 | \$5,983 - \$17,59 | 6 \$1,555,500 \$4,575,000 | | 1 . | \$ 0.51 | \$ 0.51 | \$ 0.51 |

| HOLD | | |
|--|-------------|--|
| 4 VTA Better Bus Stops Passenger Facilities & Amenities Improvements | Capital | Reason measure is not yet quantified: The proposed project consists of bus stop amenity replacements, and repairs. There is not strong literature support for such improvements generating substantial VMT reductions in and of themselves (i.e., in the absence of wholesale changes to transit frequency and geographic coverage). These measures may generate GHG emissions reductions based on some reduction in dwell time at stops, however, a direct link from this to VMT reduction is not documented. Further, per Phase I engagement, community wanted to see transit service frequency, coverage, and reliability improvements. |
| 5 Senter Rapid Transit Priority Project | Capital | Reason measure is not yet quantified: The proposed project consists of bus bulbout stops and bus boarding island improvements. There is not strong literature support for such improvements generating substantial VMT reductions in and of themselves (i.e., in the absence of wholesale changes to transit frequency and geographic coverage). These measures may generate GHG emissions reductions based on some reduction in dwell time at stops, however, a direct link from this to VMT reduction is not documented. There is also a question of additionality given that the VTA appears to be pursuing grant funding for this project. If these improvements would occur in the absence of the Equitable VMT Mitigation Program, it does note meet additionality requirements. |
| 6 Means-based Housing-Relocation Subsidy Program | Operational | Reason measure is not yet quantified: Measure not well defined, and would delay the launch of the VMT mitigation program. This VMT reduction measure is multifaceted and would need extensive evaluation to determine if it feasible for a VMT mitigation program focused on land development VMT mitigation only. This measure is not conducive to delivering a countywide VMT mitigation program quickly, because the mechanism for delivering affordable housing is unknown. Caltrans is beginning to support affordable housing as mitigation for transportation projects. State legislation and local jurisdictions housing elements will also help accelerate delivery of additional housing in the county. There is growing consensus that any VMT mitigation to deliver housing should use an existing mechanism like MTC's TOD program. |
| 7 Implement Commute Trip Reduction Program (Voluntary) | Operational | Reason measure is not yet quantified: Based on conversations to date the project team agreed to not quantify this measure. |

MITIGATION SUMMARY

Tables below present a summary and comparison of VMT reduction measures based on mitigation type, quantification method, source materials, etc.

| # | Mitigation Action Name | Mitigation Type | Include Mitigation Action? (yes/no) | Description | Quantification Method | Source | Analysis Approach Status |
|---|--|-----------------|---|---|---|-----------------------|---|
| | 1 King Road Transit Speed & Reliability Improvements | Capital | Yes | Install side-running dedicated bus lanes and Transit Boarding Islands on King Road corridor from Mabury Road in the north to Capitol Expressway in the south | CAPCOA T-25 OR T-26 (depending on scope of improvement) | | Quantitative analysis based on CAPCOA T-27 |
| | 2 Countywide Means-based Subsidies for Purchase of E-Bikes | Capital | Yes | Bikes | , | Plan for Gilroy, 2006 | Quantitative analysis based on literature review of existing e-bike subsidy programs. |
| | Organize and Subsidize Vanpools for Non-Office Workers in Santa Clara County | Operational | Yes | Conduct outreach to large non-office employers (e.g., warehouses, food processing facilities, medical centers) to facilitate the formation of vanpools, and fully subsidize the costs of vanpooling from home to worksite. Vans can be purchased or leased. | | | Quantitative analysis based on MTC's Regional Vanpool program data and use of CAPCOA measure T-11. |

| HOLD | | | | | | |
|--|-------------|----|---|---|--|--|
| 4 VTA Better Bus Stops Passenger Facilities & Amenities Improvements | Capital | | Install new shelters and shelter benches; sidewalk expansion for transit landing area, shelters, other amenities; sidewalk repair as necessary, and bus pads at higher-ridership bus stops around the VTA system. Amenities may be new, or may be replacing old/deteriorated items. | CAPCOA T-27 (proxy - not 100% aligned with this proposed project) | | Quantitative analysis based on CAPCOA measure T-27. This is a proxy only - this calculation is not recommended for this kind of improvement. |
| 5 Senter Rapid Transit Priority Project | Capital | No | Install Transit Boarding Islands and/or bus bulbout stops along Senter Road corridor from Story Road in the north to Monterey Road in the south. | n/a | VTA / City of San Jose Senter Road grant applications, late 2023 - early 2024 | Hold for now |
| 6 Integrated Affordable and Below-Market Rate Housing | Operational | | Provide grants, zero-interest loans, or monthly subsidies to offset the housing cost differential between high accessibility areas/low VMT and low accessibility areas/high VMT areas. | CAOCOA T-4 | Based on the concept in the Fehr & Peers 2023 paper "Priced Out" (available at https://www.fehrandpeers.com/wp-content/uploads/2023/04/FP_PricedOut_HousingSubsidy Programs_04.2023.pdf) and employer-assisted housing subsidy programs at the University of California, University of Chicago, and other locations. | Hold for now |
| 7 Implement Commute Trip Reduction Program (Voluntary) | Operational | No | Provide additional funding for incentives for commuters to use alternative modes, building on an existing platform / platform such as VTA SmartCommute or Palo Alto TMA "BikeLove" program. Funds could be used to increase the amount of the incentives, expand to new populations/areas, or both. | | Based on the VTA SmartCommute program (in soft launch for internal VTA employees in early 2024), and the Palo Alto TMA "Bike Love" incentive program (see https://www.paloaltotma.org/bikelove). | Hold for now |

King Road Transit Speed & Reliability Improvements

This mitigation action would fund the installation of side-running dedicated bus lanes and Transit Boarding Islands on King Road corridor from Mabury Road in the north to Capitol Expressway in the south.

Assume that all current stops (approximately 40) would be upgraded with Transit Boarding Islands and associated amenities (e.g., shelters, benches, and either PCC or thicker AC bus pads), and lower-infrastructure side-running bus lanes would be added (i.e., no change to curb and gutter, no red pavement coloring).

This project is based on the King Road Transit Speed & Reliability Improvements project from the VTA's High-Capacity Transit Study (2024).

The City of San Jose is currently completing the King Road Complete Streets Plan which would include pedestrian, bicycle and transit improvements - complete late spring 2024.

Proiect source materials:

VTA Route 77 Map: https://www.vta.org/go/routes/77
VTA High-Capacity Transit Study (2024): link forthcoming, project details provided by VTA in February-March 2024

VMT Calculation Methodology

Approach: Based on application of the CAPCOA strategy T-27 - Implement Transit-Supportive Roadway Treatments to calculate the VMT reduction potential. See: https://www.airquality.org/ClimateChange/Documents/Handbook%20Public%20Draft_2021-Aug.pdf Inputs: Calculations use constants provided by CAPCOA as well as VMT and population data from the VTA Travel Demand Model. See calculations for details.

Instructions

VMT and cost calculations are based on the values in these yellow highlighted cells. User inputed assumptions must be supported by evidence

SUMMARY RESULTS

| | Year 2015 Estimates | Year 2040 Estimates | |
|---|---------------------|---------------------|---------------------|
| Daily VMT Reduction (Avg Day) | 25 | 61 | |
| Annual VMT Reduction (Avg Year) | 8,745 | 21,257 | |
| Lifespan VMT Reduction | 218,631 | 531,430 | |
| Daily Cost of Mitigation Action (Avg Day) | \$ 1,347.78 | \$ 1,347.78 | same for both years |
| Annual Cost of Mitigation Action (Avg Year) | \$ 467,680 | \$ 467,680 | same for both years |
| Lifespan Cost of Mitigation Action | \$ 11,692,000 | \$ 11,692,000 | same for both years |
| Daily Cost per VMT (Avg Day) | \$ 53.48 | \$ 22.00 | |
| Annual Cost per VMT (First Year ROI) | \$ 1,336.96 | \$ 550.03 | |
| Annual Cost per VMT (Avg Year) | \$ 53.48 | \$ 22.00 | |
| Lifespan Cost per VMT | \$ 53.48 | \$ 22.00 | 1 |

Notes (for whole table):

1. Average daily or annual VMT reductions and costs are based on 347 days in a year and 25 years in the mitigation action lifespan. The one exception is Annual Cost per VMT (First Year ROI) which reflects the total cost required in Year 1 divided by the VMT reduction estimated for that first year.

2. Cost assumptions: All costs are in 2024 dollars; improvements are assumed to not require environmental clearance; costs include design and construction management; costs include a 15% contingency.

ADDITIONALITY

The assumption is that this project would not occur in the absence of the VTA Equitable VMT Mitigation Program. If this is not the case, it does not meet additionality requirements.

EQUITY CONSIDERATIONS

This measure would apply to TAZs in east San José, 50 percent of which are identified as EPC areas.

VMT REDUCTION POTENTIAL

CAPCOA research suggests installation of dedicated bus lanes and bus boarding islands could support VMT reductions; bus stop amenities in an of themselves would likely not.

King Road has transit signal priority, so the VMT reduction is for the dedicated bus lanes.

VMT reductions are currently based on an assumed speed improvement based on a similar project in San José. More accurate quantification could be provided if speed modeling data could be provided for this segment In the event complete streets improvements are installed along this transit corridor, depending upon what those are, they may affect the speed reductions anticipated to accompany these project improvements.

CALCULATIONS

This mitigation action estimates the VMT reduction effect of adding side-running dedicated bus lanes to the King Road/Lundy Avenue transit corridor, from Mabury Road in the north to Capitol Expressway in the south. These calculations present a scenario in which the whole corridor receives specified treatments.

STEP 1 - CALCULATE VMT REDUCTIONS

The following calculations are based on the CAPCOA *T-27 - Implement Transit-Supportive Roadway Treatments approach*. A hidden tab includes screenshots of relevant pages from the CAPCOA manual. Source: CAPCOA, 2021, accessible from: https://www.airquality.org/ClimateChange/Documents/Handbook%20Public%20Draft 2021-Aug.pdf

VMT Reduction Formula

Percent Reduction (A) $A = -1 \times \frac{B \times C \times D \times E \times G}{F}$

YEAR 2015 ANALYSIS

| Variable | Value | Source | Note |
|---|--|---|---|
| B - Percent of plan/community transit routes that receive treatments | 100.0% | Based on user assumption | Based on the whole corridor described above receiving the treatment. |
| C - Percent change in transit travel time due to treatments | 23.0% | VTA (project team) | Based on the VTA's estimated increase in average speed from 13 mph to 16 mph (+23%). This is the speed increase modeled for the Monterey Road bus lanes/TBIs project, and in the range suggested by a TCRP report. Speed increase might be less if bus stops or mid-block crossings are added based on Complete Streets Plan. |
| D - Elasticity of transit ridership with respect to transit travel time | -40.0% | CAPCOA Constant Variable | |
| E - Transit mode share in plan/community ¹ | The state of the s | Year 2015 VTA Travel Demand Model Data | Note: the CAPCOA Mode Share Value, per Table T-3.1 = 6.69 percent. |
| F - Vehicle mode share in plan/community ² | | Year 2015 VTA Travel Demand Model Data | Note: the CAPCOA Mode Share Value, per Table T-3.1 = 91.32 percent. |
| G - Statewide mode shift factor | 57.8% | CAPCOA Constant Variable | FHWA 2017b |
| Daily VMT Reduction Percentage | 0.1% | _ | - |

YEAR 2040 ANALYSIS

| Variable | Value | Source | Note |
|---|--------|---|---|
| B - Percent of plan/community transit routes that receive treatments | 100.0% | Based on user assumption | Based on the whole corridor described above receiving the treatment. |
| C - Percent change in transit travel time due to treatments | 23.0% | VTA (project team) | Based on the VTA's estimated increase in average speed from 13 mph to 16 mph (+23%). This is the speed increase modeled for the Monterey Road bus lanes/TBIs project, and in the range suggested by a TCRP report. Speed increase might be less if bus stops or mid-block crossings are added based on Complete Streets Plan. |
| D - Elasticity of transit ridership with respect to transit travel time | -40.0% | CAPCOA Constant Variable | |
| E - Transit mode share in plan/community ¹ | 4.1% | Year 2040 VTA Travel Demand Model Data | Note: the CAPCOA Mode Share Value, per Table T-3.1 = 6.69 percent. |
| F - Vehicle mode share in plan/community ² | 83.6% | Year 2040 VTA Travel Demand Model Data | Note: the CAPCOA Mode Share Value, per Table T-3.1 = 91.32 percent. |
| G - Statewide mode shift factor | 57.8% | CAPCOA Constant Variable | FHWA 2017b |
| Daily VMT Reduction Percentage | 0.3% | | |

- 1. This represents the Year 2015 Transit mode share for TAZs within a 1/2-mile of the King Road corridor to receive treatments under this project.
- 2. This represents the Year 2015 vehicle mode share for TAZs within a 1/2-mile of the King Road corridor to receive treatments under this project (i.e., sum of 48.1 percent drive-alone mode share and 38.5 percent shared-ride/carpool mode share).

- 1. This represents the Year 2040 Transit mode share for TAZs within a 1/2-mile of the King Road corridor to receive treatments under this project.
- 2. This represents the Year 2040 vehicle mode share for TAZs within a 1/2-mile of the King Road corridor to receive treatments under this project (i.e., sum of 48.1 percent drive-alone mode share and 38.5 percent shared-ride/carpool mode share).

STEP 2 - CALCULATE THE VMT WITHIN 0.5 MILES OF BUS STOPS SERVED BY ROUTE IMPROVEMENTS

Population and VMT data applied to these calculations was pulled by City from the VTA Travel Demand Model. Data is included within hidden tabs, referenced using formulas below.

| Number of TAZs | 28 Formula (pulled from data table) |
|--|--|
| Population in Area (for reference only) ¹ | 76,326 Formula (pulled from data table) |
| Total Daily VMT at Bus Stop Areas ² | 17,845 Formula (pulled from data table). |

- Notes:

 1. The Year 2015 residential population of TAZs within a 1/2-mile of route improvements.

 2. This represents 1% of Year 2015 Total Daily VMT associated with TAZs within a 1/2-mile of the route improvements (i.e., internal-internal, internal-external, and external-internal trips).

 Total Daily VMT rates for these TAZs are only slightly lower than those for the City and County, thus we estimate about 1% would serve internal trips along this corridor.

STEP 3 - APPLY THE CAPCOA PERCENTAGE REDUCTION TO AREA VMT TO CALCUATE A DAILY, ANNUAL, AND LIFESPAN VMT REDUCTION

This calculation presents the daily VMT reduction converted to an annual VMT reduction and lifespan VMT reduction based on user inputs.

| Total Daily VMT at Bus Stop Areas | 17,845 Formula. Input from Step 2 a | bove |
|---------------------------------------|-------------------------------------|------|
| CAPCOA Percentage Reduction | 0.1% Formula. Input from Step 1 a | bove |
| Daily VMT Reduction (Avg Day) | 25 Formula | |
| Days in a Year ¹ | 347 User input. | |
| Annual VMT Reduction (Avg Year) | 8,745 Formula | |
| Project Lifespan (Years) ² | 25 User input. | |
| Lifespan VMT Reduction | 218 631 | |

- 1. Number of days used to annualize VMT based on daily VMT reduction values. 347 is the number of days per year applied in most Climate Action Plans for this purpose.
- This is the assumed project lifespan and timeframe for which cost estimates were developed.

STEP 5 - CALCULATE ANNUAL PROJECT COST

Annual project costs are estimated based on content from the VTA's High-Capacity Transit Study (2024) shared with Project staff for the sake of this exercise. All costs represent 2024 dollars.

| 1 | | |
|---|---------------|---|
| Lifespan Cost of Mitigation Action | \$ 11,692,000 | Removed bus stop initial and renewal costs from the VMT reduction project cost (~\$3mil). |
| Project Lifespan (Years) | 25 | Formula. User input from Step 3 above. |
| Annual Cost (Avg Year) | \$ 467,680 | Formula |
| Days in a Year | 347 | Formula. User input from Step 3 above. |
| Daily Cost of Mitigation Action (Avg Day) | \$ 1.347.78 | |

- 1. Based on cost estimates provided by VTA. These include construction and administrative costs as well as a 15% contingency. All costs are in 2024 dollars.

 2. This is the assumed project lifespan and timeframe for which cost estimates were developed.

Number of TAZs Formula (pulled from data table) Population in Area (for reference only)¹ Formula (pulled from data table) Formula (pulled from data table). Total Daily VMT at Bus Stop Areas

- The Year 2040 residential population of TAZs within a 1/2-mile of route improvements.
 This represents 1% of Year 2040 Total Daily VMT associated with TAZs within a 1/2-mile of the route improvements (i.e., internal-internal, internal-external, and external-internal trips).

| Total Daily V | 'MT rates for these | TAZs are only sl | ightly lower th | an those for the Cit | ty and County | , thus we estimate | about 1% w | ould serve internal tri | os along this corride | or. |
|---------------|---------------------|------------------|-----------------|----------------------|---------------|--------------------|------------|-------------------------|-----------------------|-----|

| Total Daily VMT at Bus Stop Areas | 23,490 | Formula. Input from Step 2 above |
|-----------------------------------|---------|----------------------------------|
| CAPCOA Percentage Reduction | 0.3% | Formula. Input from Step 1 above |
| Daily VMT Reduction (Avg Day) | 61 | Formula |
| Days in a Year ¹ | 347 | User input. |
| Annual VMT Reduction (Avg Year) | 21,257 | Formula |
| Project Lifespan ² | 25 | User input. |
| Lifespan VMT Reduction | 531.430 | |

- 1. Number of days used to annualize VMT based on daily VMT reduction values. 347 is the number of days per year applied in most Climate Action Plans for this purpose.
- This is the assumed project lifespan and timeframe for which cost estimates were developed.

CURRENTLY COSTS ARE THE SAME FOR THE 2015 AND 2040 ANALYSIS SCENARIOS.

Countywide Means-based Subsidies for Purchase of E-Bikes

Description

This mitigation action would improve access to e-bikes by providing subsidies for Santa Clara County residents to purchase e-bikes.

Subsidies would be means-based (i.e., provide a greater subsidy to lower-income households and equity community areas).

The program would expand the reach of current/planned e-bike subsidy programs which are generally limited geographically or have limited budgets.

Project source materia

California E-Bike Incentive Project (2023): https://ebikeincentives.org/

Can Do Colorado eBike Pilot Program (2020-21): https://energyoffice.colorado.gov/transportation/ebikes/can-do-colorado-ebike-pilot-program

CARB, Revisiting Average Trip Length Defaults and Adjustment Factors for Quantifying VMT Reductions from Car Share, Bike Share, and Scooter Share Services (2020): https://www.arb.ca.gov/sites/default/files/auction-proceeds/sharedmobility_technical_052920.pdf

Denver e-Bike Voucher Report (2023): https://www.denvergov.org/Government/Agencies-Departments-Offices-Directory/Climate-Action-Sustainability-Resiliency/News-Events/News/2023/Denver-E-Bike-and-E-Cargo-Bike-Rebate-Returns-January-31

Jones et al, Motives, perceptions and experiences of electric bicycle owners and implications for health, wellbeing and mobility (2016): https://nam12.safelinks.protection.outlook.com/MacArthur, North American Survey of Electric Bicycle Owners (2017): https://pdxscholar.library.pdx.edu/trec_reports/161/

UC Davis, Impacts of E-bike Ownership on Travel Behavior: Evidence from three Northern California rebate programs (2023): https://escholarship.org/uc/item/5kb4b8jx

VMT Calculation Methodology

Approach: Based on the range of VMT reductions documented in source materials cited above. Value-specific citations are provided below, as needed. Inputs: Calculations use inputs derived from source materials and cost figures provided by the VTA. See calculations for details.

Instructions

User Input

VMT and cost calculations are based on the values in these yellow highlighted cells. User inputed assumptions must be supported by evidence

SUMMARY RESULTS

| | Low Estimate | | High Estimate | Range |
|---|--------------|--------|---------------|-------------------------|
| Daily VMT Reduction (Avg Day) | 7 | ,500 | 13,040 | 7,500 - 13,040 |
| Annual VMT Reduction (Avg Year) | 2,602, | 500 | 4,524,880 | 2,602,500 - 4,524,880 |
| Lifespan VMT Reduction | 18,217 | ,500 | 31,674,160 | 18,217,500 - 31,674,160 |
| Daily Cost of Mitigation Action (Avg Day) | \$ 4, | 343 \$ | 4,343 | \$ 4,343 |
| Annual Cost of Mitigation Action (Avg Year) | \$ 1,507, | 143 \$ | 1,507,143 | \$ 1,507,143 |
| Lifespan Cost of Mitigation Action | \$ 10,550, | 000 \$ | 10,550,000 | \$ 10,550,000 |
| Daily Cost per VMT (Avg Day) | \$ 0 | .58 \$ | 0.33 | \$0.33 - \$0.58 |
| Annual Cost per VMT (First Year ROI) | \$ 4 | .05 \$ | 2.33 | \$2.33 - \$4.05 |
| Annual Cost per VMT (Avg Year) | \$ 0 | .58 \$ | 0.33 | \$0.33 - \$0.58 |
| Lifespan Cost per VMT | \$ 0 | .58 \$ | 0.33 | \$0.33 - \$0.58 |

Notes (for whole table):

- 1. Average daily or annual VMT reductions and costs are based on 347 days in a year and 7 years for each bicycle's lifespan; the mitigation action could last 25 years. The one exception is Annual Cost per VMT (First Year ROI) which reflects the total cost required in Year 1 divided by the VMT reduction estimated for that first year.
- 2. Costs are based on the lifespan of bicycles and the assumption that X number of bikes (currently set to 5,000) would be purchased over that timeframe.

ADDITIONALITY

This project would introduce a novel means of acquiring e-bikes not otherwise available. This achieves the additionality requirement.

EQUITY CONSIDERATIONS

E-bike subsidies could apply to all geographies throughout the county - EPC and non-EPC area - but will be means-based and therefore apply to populations characteristic of EPC areas. E-bike subsidies, though adjusted for income, would likely still require investment from recipients. CBOs report these subsidies would not 'go far enough' for low-income households.

VMT REDUCTION POTENTIAL

The VMT reduction potential of e-bikes is presented as a range based on literature evidence available.

Evidence suggests lower-income recipients of e-bike subsidies generate greater than average VMT reductions. Per the Denver study, income-qualified residents replaced 32 miles of vehicle trips/week (4.5 VMT/day) compared to an average of 22 miles of vehicle trips/week (3.1 VMT/day). Evidence also suggests VMT reductions peak in the near-term and may decrease in the long-term as the initial enthusiasm for using e-bikes wanes.

CALCULATIONS

This mitigation action estimates the VMT reduction effect of providing means-based e-bike subsidies to moderate and low-income individuals throughout Santa Clara County.

STEP 1 - CALCULATE DAILY VMT REDUCTION PER E-BIKE SUBSIDY

The following calculations are based on the documented VMT reduction associated with existing e-bike subsidy programs. Results reflect a low and high estimate of VMT reduction effectiveness.

VMT Reduction Formula

Daily VMT Reduction = [VMT replaced per day] x [days of use per year adjusted]

Low Estimate

| LOW Littliate | | |
|---|-----|----------------------------|
| Daily VMT Reduction per E-Bike Subsidy ¹ | 1.5 | UC Davis (2023); CARB (202 |
| Weather adjustment ² | n/a | |
| Daily VMT Reduction per E-Bike Subsidy (Adjusted) | 1.5 | |
| | | |

Notes:

- 1. Participants in three northern California e-bike rebate programs replaced and average of at least 35 percent of their VMT, equivalent to 45 VMT per month or 1.5 VMT per day. Lower income users replaced car trips more regularly for greater VMT reductions.
- 2. This daily VMT reduction per e-bike subsidy is based on studies from the San Francisco Bay Area (Contra Costa County). Therefore, no weather adjustment is applied.

High Estimate

| g ===: | | |
|---|---|--|
| Daily VMT Reduction per E-Bike Subsidy | 3.1 Denver e-bike Voucher Report (2023) | |
| Weather adjustment ¹ | 307 CAPCOA Table T-19.4 | |
| Daily VMT Reduction per E-Bike Subsidy (Adjusted) | 2.6 | |

Notes

- 1. Per the Denver E-Bike Rebate program, recipients of e-bike vouchers replaced an average of 22 miles of vehicle trips per week or 3.1 VMT per day.
- Income-qualified voucher recipients replaced an average of 32 miles of vehicle trips per week for greater VMT reductions 2. This weather adjustment converts this daily VMT reduction to the Santa Clara County context (per CAPCOA research).

High Estimate

Daily VMT Reduction per e-bike Subsidy (Adjusted)

Number of Bicycles
Daily VMT Reduction for Program

Annual VMT Reduction for Program

Lifespan VMT Reduction for Program Notes: same as those for the Low Estimate

Days in a Year

E-Bike Lifespan¹

2.6 Result from Step 1.

13,040 Formula

4,524,880 Formula

31,674,160

5,000 User assumption. Formula for consistency with Low Estimate.

347 User assumption. Formula for consistency with Low Estimate.

User assumption. Formula for consistency with Low Estimate.

STEP 2 - ESTIMATE THE DAILY, ANNUAL AND LIFESPAN VMT REDUCTION FOR THE PROGRAM

The annual VMT reduction based on the total number of bicycles delivered by the program.

Low Estimate

| Daily VMT Reduction per e-bike Subsidy (Adjusted) | 1.5 | Result from Step 1. |
|---|------------|---------------------|
| Number of Bicycles | 5,000 | User assumption |
| Daily VMT Reduction for Program | 7,500 | Formula |
| Days in a Year ¹ | 347 | User assumption |
| Annual VMT Reduction for Program | 2,602,500 | |
| E-Bike Lifespan ² | 7 | User assumption |
| Lifespan VMT Reduction for Program | 18,217,500 | |

1. Number of days used to annualize VMT based on daily VMT reduction values. 347 is the number of days per year applied in most Climate Action Plans for this purpose.

2. Estimates for e-bike lifespan vary widely from 3 to 10 years or more. Lifespan depends on the initial quality of bicycle parts, user characteristics, trip characteristics, user maintenance, and more.

STEP 3 - ESTIMATE THE COST PER E-BIKE

The program cost estimate based on the average e-bike subsidy and number of bicycles provided.

| Average E-Bike Subsidy (One-Time Cost) ¹ | \$ 1,625 | California E-Bike Subsidy Program |
|---|-------------|-----------------------------------|
| Administrative Cost (Percentage) ² | 30% | People for Bikes |
| Average E-Bike Subsidy (with admin costs) | \$ 2,110 | Formula |
| Natas | | |

- 1. Based on subsidies to be provided by the California E-Bike Incentive Project. This represents the average e-bike subsidy for moderate-income and low-income bike subsides for both regular and cargo bicycles. Data provided by VTA.

 2. People for Bikes reported the California E-Bike Incentive Project will have a total cost of \$13 million, \$3 million of which will cover administrative costs (leaving \$10 million to be applied to subsidies). \$3 million / \$10 million = 0.3.

STEP 4 - CALCULATE THE DAILY, ANNUAL AND LIFESPAN PROGRAM COST

Program cost estimates based on

| Number of Bicycles Purchased (Year 1) | \$ 5,000 | Formula. Input from Step : |
|---|------------------|----------------------------|
| Average E-Bike Subsidy (with admin costs) | \$ 2,110.00 | Formula. Input from Step : |
| Lifespan Cost of Mitigation Action ¹ | \$ 10,550,000 | Formula |
| Project Lifespan (Years) | 7 | Formula. Input from Step : |
| Annual Cost (Avg Year) | \$ 1,507,143 | Formula |
| Days in a Year | \$ 347 | Formula. Input from Step : |
| Daily Cost of Mitigation Action (Avg Day) | \$ 4,343 | Formula |
| Nata | | |

1. Number of days used to annualize costs. 347 is the number of days per year applied in most Climate Action Plans.

Organize and Subsidize Vanpools for Non-Office Workers in Santa Clara County

Description

This measure includes organizing and subsidizing vanpools for non-office workers in Santa Clara County.

The VMT estimate is based on CAPCOA measure T-11. Provide Employer-Sponsored Vanpool.

Based on a concept to extend the existing MTC Regional Vanpool Subsidy Program and VTA's supplemental subsidy program to include means-based subsidies.

Project source materials.

Community-Based Transportation Plan for Gilroy, 2006 MTC Regional Vanpool Subsidy Program (MTC/Commute With Enterprise) VTA Supplemental Subsidy Program (for MTC's Regional Vanpool Subsidy Program)

VMT Calculation Methodology

Approach: Based on the documented range of VMT reductions observed in project source materials cited above. Specific citations are provided below, as needed. Inputs: Calculations use constants provided by CAPCOA, VMT and population data from the VTA Travel Demand Model, and costs from MTC and the VTA. See calculations for details.

Instructions

User Input

VMT and cost calculations are based on the values in these yellow highlighted cells. User inputed assumptions must be supported by evidence.

SUMMARY RESULTS

| | Year 2015 Estimates | | Year 2040 Estimates | | | |
|---|---------------------|----------------|------------------------------|---------------|----------------|------------------------------|
| | Low Estimate | High Estimate | Range | Low Estimate | High Estimate | Range |
| Daily VMT Reduction (Avg Day) | 11,807 | 34,725 | 11,807 - 34,725 | 11,798 | 34,725 | 11,798 - 34,725 |
| Annual VMT Reduction (Avg Year) | 3,069,724 | 9,028,600 | 3,069,724 - 9,028,600 | 3,067,508 | 9,028,600 | 3,067,508 - 9,028,600 |
| Lifespan VMT Reduction | 76,743,098 | 225,714,995 | 76,743,098 - 225,714,995 | 76,687,690 | 225,714,995 | 76,687,690 - 225,714,995 |
| Daily Cost of Mitigation Action (Avg Day) | \$ 5,983 | \$ 17,596 | \$5,983 - \$17,596 | \$ 5,982.69 | \$ 17,596 | \$5,983 - \$17,596 |
| Annual Cost of Mitigation Action (Avg Year) | \$ 1,555,500 | \$ 4,575,000 | \$1,555,500 - \$4,575,000 | \$ 1,555,500 | \$ 4,575,000 | \$1,555,500 - \$4,575,000 |
| Lifespan Cost of Mitigation Action | \$ 38,887,500 | \$ 114,375,000 | \$38,887,500 - \$114,375,000 | \$ 38,887,500 | \$ 114,375,000 | \$38,887,500 - \$114,375,000 |
| Daily Cost per VMT (Avg Day) | \$ 0.51 | \$ 0.51 | \$ 0.51 | \$ 0.51 | \$ 0.51 | \$ 0.51 |
| Annual Cost per VMT (First Year ROI) | \$ 0.51 | \$ 0.51 | \$ 0.51 | \$ 0.51 | \$ 0.51 | \$ 0.51 |
| Annual Cost per VMT (Avg Year) | \$ 0.51 | \$ 0.51 | \$ 0.51 | \$ 0.51 | \$ 0.51 | \$ 0.51 |
| Lifespan Cost per VMT | \$ 0.51 | \$ 0.51 | \$ 0.51 | \$ 0.51 | \$ 0.51 | \$ 0.51 |

lotes (for whole table

- 1. Average daily or annual VMT reductions and costs are based on 347 days in a year and a 25-year mitigation action lifespan. Note: since this program requires annual investment of equal value the Annual Cost per VMT (First Year ROI) is the same as Annual Cost per VMT (Average Year).
- 2. A range is presented for Low and High Estimates of vanpool usage based on user inputs for number of vans leased (under Step 4).
- 2. Cost assumptions: All costs are in 2024 dollars.

ADDITIONALITY

This project would provide access to vanpools not otherwise available to this worker population, thus achieving the additionality requirement.

EQUITY CONSIDERATIONS

This measure would apply to a range of geographies - EPC and non-EPC areas. However, the expectation based on the vanpool subsidy being means-based is that this measure would target lower-income, and likely higher VMT, employee populations within these geographies.

VMT REDUCTION POTENTIAL

The VMT reduction potential of a vanpool may be substantial though CAPCOA literature evidence is based on relatively few studies and calculations should be scrutinized closely and updated with context-specific inputs as much as possible.

CALCULATIONS

This mitigation action estimates the VMT reduction effect of providing novel vanpool service for non-office workers in Gilroy and Morgan Hill in Santa Clara County.

STEP 1 - CALCULATE PERCENT VMT REDUCTION FOR VANPOOL SERVICE

The following calculations are based on the CAPCOA measure T-11. Provide Employer-Sponsored Vanpool. A hidden tab includes screenshots of relevant pages from the CAPCOA manual. Source: CAPCOA, 2021, accessible from: https://www.airquality.org/ClimateChange/Documents/Handbook%20Public%20Draft_2021-Aug.pdf

VMT Reduction Formula

A = GHG/VMT Reduction (Assumes 1:1 relationship for VMT and GHG emissions reductions.)

 $A = \frac{\left((1 - B) \times C \times F \right) + \left(B \times \frac{D}{E} \times G \right)}{\left((1 - B) \times C \times F \right) + \left(B \times D \times F \right)} - 1$

Variable

B - Percent of employees that participate in vanpool program

C - Average length of one-way vehicle commute trip in region (miles)

D - Average length of one-way vanpool commute trip (miles)

C - Average length of one-way vanpool commute trip (miles)

42 SANDAG 2019¹

E - Average vanpool occupancy (including driver) (occupants)

F - Average emission factor of average employee vehicle (g CO2e per mile)

G - Vanpool emission factor (g CO2e per mile)

763.4 CARB 2020

Daily VMT reduction potential (%)²

-0.7

Notes

- 1. Source from a survey of commuters in San Diego County. If a context-specific input can be provided, replace this default with that value. Note, However, the percent of employees that participate in the vanpool program is capped at 15 percent, which is based on the high end of vanpool participation survey data for several successful programs in the U.S.
- 2. The maximum percent reduction, according to CAPCOA, is 20.4 percent.

STEP 2 - CALCULATE THE DAILY VMT REDUCTION PER VAN

The daily VMT reduction per van is based on inputs from the VTA travel demand model.

YEAR 2015 ANALYSIS

| Percentage of County Workforce Population that is Non- | 19.8% | Year 2015 VTA Travel | Formula (pulled from data table). |
|---|---------|----------------------|-----------------------------------|
| Office and Located within Service Areas ¹ | | Demand Model | |
| Total Daily Commute VMT Attributable to Vanpool Service | 733,907 | Year 2015 VTA Travel | Formula (pulled from data table). |
| Areas (Year 2015) ² | | Demand Model | |
| Portion of Eligible Non-Office Worker Population to | 25% | Estimate | |
| Participate in Vanpool | | | |
| Eligible Non-Office Worker Population | 1,832 | | |
| Maximum of Vans Required to Serve Eligible Worker | 262 | | |
| Population | | | |
| Daily Commute VMT Reduction per Van | 139 | | |
| Notes: | | • | |

1. This is based on the portion of the Year 2015 Santa Clara County employee population represented by agricultural, industrial and wholesale workers.

Calculation: [Agricultural Employees Countywide + Industrial Employees Countywide + Wholesale Employees Countywide] / All Employees Countywide 2. Based on the Year 2015 Commute VMT (i.e., Home-Based-Work VMT per Employee) for the service areas of Gilroy and Morgan Hill.

Calculation: [HBW VMT for Gilroy + HBW VMT for Morgan Hill] / HBW VMT Countywide

STEP 3 - ESTIMATE THE DAILY, ANNUAL, AND LIFESPAN VMT REDUCTION (BASED ON A LOW- AND HIGH-ESTIMATE OF VANPOOL USAGE)

Estimate of daily, annual, and lifespan VMT reduction based on scaling of daily VMT reduction.

| Low Estimate | | |
|--|------------|-----------------------------------|
| Daily Commute VMT Reduction per Van | 139 | Formula. Input from Step 2 above. |
| Number of Vans Leased per Year - Low Estimate ¹ | 85 | User input. |
| Daily Commute VMT Reduction per Program | 11,807 | Formula |
| Days in a Year (Workdays) ² | 260 | User input. |
| Annual VMT Reduction per Program | 3,069,724 | Formula |
| Lifespan of Mitigation Action (Years) | 25 | User input. |
| Lifespan VMT Reduction per Program | 76,743,098 | Formula |

1. The number of vanpools served by the Program. This is a user input and should be less than the maximum number served (calculated under Step 1).

2. Number of days used to annualize VMT based on daily VMT reduction values. 260 is based on the number of weekdays in a year: 52 weeks per year x 5 days per week.

High Estimate

| Daily Commute VMT Reduction per Van | 139 |
|---|-------------|
| Number of Vans Leased per Year - High Estimate ¹ | 250 |
| Daily Commute VMT Reduction per Program | 34,725 |
| Days in a Year (Workdays) ² | 260 |
| Annual VMT Reduction per Program | 9,028,600 |
| Lifespan of Mitigation Action (Years) | 25 |
| Lifespan VMT Reduction per Program | 225,714,995 |
| Notes: same as those for the Low Estimate | |

User assumption. Formula for consistency with Year 2015 Low Estimate analysis.

STEP 4 - CALCULATE DAILY, ANNUAL AND LIFESPAN PROGRAM COST (BASED ON A LOW- AND HIGH-ESTIMATE OF VANPOOL USAGE)

Annual project cost is based on MTC/Commute With Enterprise data for Santa Clara County vanpools, provided by the VTA.

| Low Estimate | | _ |
|--|------------------|---|
| Monthly Lease Cost per Van ¹ | \$ 1,525 | Formula, referencing cost data in the not |
| Administrative Cost (percentage) ² | 0% | |
| Monthly Lease Cost per Van (with admin included) | \$ 1,525 | Formula |
| | | |
| Number of Vans Leased per Year | 85 | Formula. User input from Step 3 above. |
| Project Lifespan (Years) | 25 | Formula. User input from Step 3 above. |
| Lifespan Cost of Mitigation Action ¹ | \$ 38,887,500 | Formula |
| Annual Cost (Avg Year) | \$ 1,555,500 | Formula |
| Days in a Year (Workdays) | 260 | Formula. User input from Step 3 above. |
| Daily Cost of Mitigation Action (Avg Day) | \$ 5,983 | Formula |
| Note: | | |

1. Based on MTC's Regional Vanpool program, the monthly cost to lease 7-passenger vans is \$1,400 to \$1,650. This program would subsidize the full lease cost, though, MTC and/or VTA subsidies for qualifying vanpools could further reduce the cost.

If the program were instead layered onto the existing MTC program, vanpools may be eligible for up to \$900 in additional monthly subsides from the MTC or VTA: \$500 from MTC for vanpools that start or end in the Bay Area; \$400 from VTA for trips that start or end in Santa Clara County.

2. Per discussions with MTC and Commute with Enterprise (CWE): MTC has negligible marketing costs; CWE has already does extensive marketing and runs a program so there would be negligible to zero additional marketing costs.

2. Based on the program only applying to workdays.

High Estimate

| Monthly Lease Cost per Van ¹ | \$ 1,525 | Formula, referencing cost data in the notes |
|--|----------------|---|
| Administrative Cost (percentage) ² | 0% | |
| Monthly Lease Cost per Van (with admin included) | \$ 1,525 | Formula |
| | | |
| Number of Vans Leased per Year | 250 | Formula. User input from Step 3 above. |
| Project Lifespan (Years) | 25 | Formula. User input from Step 3 above. |
| Lifespan Cost of Mitigation Action ¹ | \$ 114,375,000 | Formula |
| Annual Cost (Avg Year) | \$ 4,575,000 | Formula |
| Days in a Year (Workdays) | 260 | Formula. User input from Step 3 above. |
| Daily Cost of Mitigation Action (Avg Day) | \$ 17,596 | Formula |
| Notes: same as those for the Low Estimate | | |

YEAR 2040 ANALYSIS

| Percentage of County Workforce Population that is Non- | 19.2% | Year 2040 VTA Travel Demand | Formula (from other tab). Data summarized for VMT Reductions Memo. |
|---|---------|-----------------------------|--|
| Office and Located within Service Areas ¹ | | Model | |
| Total Daily Commute VMT Attributable to Vanpool Service | 733,900 | Year 2040 VTA Travel Demand | Formula (from other tab). Data summarized for VMT Reductions Memo. |
| Areas (Year 2040) ² | | Model | |
| Portion of Eligible Non-Office Worker Population to | 25% | Estimate | |
| Participate in Vanpool | | | |
| Eligible Non-Office Worker Population | 1,776 | | |
| Maximum of Vans Required to Serve Eligible Worker | 254 | | |
| Population | | | |
| Daily Commute VMT Reduction per Van | 139 | | |
| Notes: | | | |

1. This is based on the portion of the Year 2040 Santa Clara County employee population represented by agricultural, industrial, and wholesale workers.

Calculation: [Agricultural Employees Countywide + Industrial Employees Countywide + Wholesale Employees Countywide] / All Employees Countywide

2. Based on the Year 2040 Commute VMT (i.e., Home-Based-Work VMT per Employee) for the service areas of Gilroy and Morgan Hill.

Calculation: [HBW VMT for Gilroy + HBW VMT for Morgan Hill] / HBW VMT Countywide

Low Estimate Daily Commute VMT Reduction per Van 139 Formula. Input from Step 2 above. 85 User assumption. Formula for consistency with Year 2015 analysis. Number of Vans Leased per Year - Low Estimate 11,798 User assumption. Formula for consistency with Year 2015 analysis. Days in a Year² Annual VMT Reduction per Program 3,067,508 Formula Lifespan of Mitigation Action (Years) Lifespan VMT Reduction per Program User assumption. Formula for consistency with Year 2015 analysis. 76,687,690

Notes: same as those for the Year 2015 analysis

| High Estimate | | _ |
|---|-------------|---|
| Daily Commute VMT Reduction per Van | 139 | Formula. Input from Step 2 above. |
| Number of Vans Leased per Year - High Estimate ¹ | 250 | User assumption. Formula for consistency with Year 2015 analysis. |
| Daily Commute VMT Reduction per Program | 34,700 | |
| Days in a Year ² | 260 | User assumption. Formula for consistency with Year 2015 analysis. |
| Annual VMT Reduction per Program | 9,022,081 | Formula |
| Lifespan of Mitigation Action (Years) | 25 | User assumption. Formula for consistency with Year 2015 analysis. |
| Lifespan VMT Reduction per Program | 225,552,028 | |
| Notes: same as those for the Year 2015 analysis. | | |

CURRENTLY COSTS ARE THE SAME FOR THE 2015 AND 2040 ANALYSIS SCENARIOS.

Appendix N: VMT Reduction Analysis Considerations



Vehicle Miles Traveled Reduction Analysis Considerations

The research on VMT mitigation is constantly evolving, and emerging studies on the effectiveness of VMT reducing projects and programs are an important consideration when developing a mitigation program. The most widespread method of calculating the VMT reductions from projects and programs is the California Air Pollution Control Officers Association (CAPCOA) 2021 Handbook for Analyzing GHG Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity report. The handbook, which was released in 2021, provides VMT and GHG quantification methods for a variety of land use and transportation strategies, such as implementing transit service expansions, installing bicycle infrastructure improvements, and providing affordable housing.

The CAPCOA methods produce the VMT reduction associated with the 'affected population'. It does not contain information necessary to understand the complete effect on the 'rest of the population'. For example, increasing transit frequency will increase ridership and some of those new riders will be former drivers. For this population of drivers, their VMT will be reduced. However, CEQA requires the impacts of mitigation to be disclosed. The shift of drivers will free up roadway capacity for other drivers and reduce their travel times causing an 'induced travel' effect that will dampen the mitigation effectiveness. How much is uncertain although understanding the built environment context, VMT trends, transit ridership trends, and the effects of transportation network companies and other emerging trends in California and Santa Clara County will help substantiate the amount of VMT reduction associated with a VMT mitigation action. The discussion below notes considerations about VMT reductions achievable in Santa Clara County.

Santa Clara County Context

The CAPCOA handbook indicates that projects in suburban areas may achieve substantial reductions in VMT, however, achieving this level of reduction requires that new land use developments implement numerous individual project-level strategies (e.g., TDM and site design strategies) and be sited in an efficient transit-adjacent location. These traits may not be feasible in all geographies within Santa Clara County, some of which are characterized by

¹ Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity: Designed for Local Governments, Communities, and Project Developers. California Air Pollution Control Officers Association (CAPCOA). August 2021.





dispersed, low-density, automobile-dependent land use patterns. In addition, project-level VMT reduction measures are often implemented by individual building tenants. As such, their use requires ongoing monitoring and adjusting to account for changes in tenants and their travel behavior.

Due to these project-specific implementation barriers, ad-hoc project-by-project mitigation is less effective for reducing VMT compared with larger scale program-based approaches, such as an impact fee program that funds transit expansion, or land use and zoning changes at a citywide level. The emergence of these new mitigation concepts presents opportunities to reduce VMT at a citywide or regional scale, though the measured effects of these programs (and their ability to reach desired long-term land use outcomes) are largely unknown. This, of course, is one central element of the VTA Equitable VMT Mitigation Program study.

Areas with Land Use Density to Support VMT Reduction Measures

Research behind VMT reduction indicates the built environment matters and many VMT reduction projects are effectively limited in low density communities like some portions of Santa Clara County. For example, as described in *Land Use-Based Transit Planning*,² there are limitations to how much transit service can reduce VMT in low density areas. Increasing frequencies, extending hours of operation, extending existing routes, providing new routes, or providing new express transit service are all considered projects that aim to provide a reliable transit service that can compete with driving. Additionally, recent comments from CARB on the environmental documents for freeway expansion projects cites research that questions the effectiveness of many traditional TDM measures and driving reduction strategies, due to backfilled traffic.³

Combining transit projects with improvements to active transportation networks or increased parking costs can further incentivize a mode shift toward transit and away from driving. For these types of transit improvements to be effective at reducing VMT, they need to occur in places where existing roadway congestion is high (i.e., congestion persists for multiple hours of the day), parking is limited and priced, transit travel times are both reliable and competitive with driving, and population plus employment density is great enough to support VMT reduction projects. Even under these conditions, transit expansion may not produce lower VMT levels because it will result in the same induced travel effects created by roadway capacity expansion. Basically, people shift from driving to transit, thus freeing up roadway capacity that is quickly consumed by latent demand. This effect has been analyzed and quantified in the same research used to support the National Center for Sustainable Transportation (NCST) induced travel calculator.⁴

⁴ Duranton, G., & M. A. Turner (2011). The Fundamental Law of Road Congestion: Evidence from US Cities. American Economic Review, 101(6), 2616-2652.



_

² Milam, R., & T. A. Luo, "Land Use-Based Transit Planning." <u>Transportation Research Record</u>, 2063, (2008): pp.143-148.

³ CARB DEIR Comment Letter: I-5 Red Hill Avenue to OC/LA County Line Managed Lanes Project. Steven S. Cliff, Executive Officer, California Air Resources Board (CARB). July 18, 2023.

Appendix O: VMT Mitigation Action Prioritization Schemes



VMT Mitigation Action Prioritization Schemes

The project team tested several VMT mitigation action prioritization schemes to determine if ranking or a cut-off point system would be useful as a part of a future selection process for VMT mitigation actions (refer to Table 1 for criteria).

Table 1: VMT Mitigation Action Cost-per-VMT-Reduced Summary

| Criteria | Description |
|---|---|
| VMT Reduction Cost Evaluation | |
| Project Type | Indication of whether the project represents a capital or operational/programmatic improvement. |
| Cost per VMT Reduced | The estimated cost per VMT reduced based on the inputs detailed above for Typical Project Cost and VMT Reduction. |
| Equity Consistency Evaluation | |
| No excess VMT would be generated by the new development in Santa Clara County. | Indication of whether the VMT reduction measure would advance the equity performance metric indicated in the column title. Success/Advancement of this outcome is evaluated as a Yes or No. |
| 2. EPC areas with low VMT rates would decrease, maintain, or increase their average VMT rate. | Same as above, specific to this performance metric. |
| 3. EPC areas with high VMT rates would decrease their average VMT rate. | Same as above, specific to this performance metric. |
| 4. Non-EPC areas with low VMT rates would decrease their average VMT rate. | Same as above, specific to this performance metric |
| 5. Non-EPC areas with high VMT rates would decrease their average VMT rate. | Same as above, specific to this performance metric. |
| 6. Non-EPC areas would decrease their average VMT rate. | Same as above, specific to this performance metric. |
| Feasibility Considerations Evaluation | |
| Fiscal Impact | A qualitative assessment of the fiscal impact (i.e., cost) of the VMT reduction measure. Presented on a spectrum of High to Low. |
| Implementation Challenge | A qualitative assessment of the implementation challenge of the VMT reduction measure. Presented on a spectrum of High to Low. |
| Institutional and Governance Challenge | A qualitative assessment of the political challenge of the VMT reduction measure. Presented on a spectrum of High to Low. |

Source: Fehr & Peers, 2024.



Three prioritization schemes were tested: one put the greatest weight on achieving VMT reductions in EPC areas, one put the greatest weight on minimizing costs, and one put the greatest weight on reducing overall VMT. Points were allocated to each possible criterion value.

The conclusion was that the three example VMT mitigation actions ranked between 4 and 26 points of one another, in similar orders. The Enhanced Vanpool action typically ranks first, followed by the E-Bike Subsidies and the Transit Improvements, although the relative strength of each action varied depending on the prioritization scheme used. The use of a VMT mitigation action prioritization scheme could assist with identifying projects that are good candidates for VMT mitigation actions.

The three schemes are presented side-by-side in **Figure 1** and each on their own in **Figures 2** through 4.



Figure 1: VMT Mitigation Action Point Scheme Summary

| Title | Title Test Scheme #1: VMT Reductions in EPC Areas | | | | | | | | | |
|--|---|---------------|---------|-----------|-----------|--------|--------------|----|--|--|
| Per Criterion | Weight | Max Points | Poin | ts pe | r Valu | ie | | | | |
| VMT Reduction Cost Evaluation | 20% | 20 | Capital | Operating | High | Medium | Low | | | |
| Project Type (capital vs operating) | 10% | 10 | 10 | 0 | | | | | | |
| Daily Cost per VMT Reduced (high/med/low) | 10% | 10 | | | 0 | 5 | 10 | | | |
| Equity Consistency Evaluation | 60% | 60 | Yes | No. | Community | City | Nieghborhood | No | | |
| No excess VMT would be generated by the new development in Santa Clara County. (yes/no) | 20% | 20 | 20 | 0 | | | | | | |
| Care Training County (yes/no) Le EPC areas with low VMT rates would decrease, maintain, or increase their average VMT rate. (county/city/neigborhood) | 12% | 12 | | | 12 | 8 | 6 | 0 | | |
| 3. EPC areas with high VMT rates would decrease their average VMT rate. (same as above) | 16% | 16 | | | 16 | 12 | 8 | 0 | | |
| Non-EPC areas with low VMT rates would decrease their average VMT rate. (same as above) | 4% | 4 | | | 4 | 2 | 0 | 0 | | |
| 5. Non-EPC areas with high VMT rates would decrease their average VMT rate. (same as above) | 4% | 4 | | | 4 | 2 | 0 | 0 | | |
| 6. The non-EPC areas would decrease their average VMT rate. (same as above) | 4% | 4 | | | 4 | 2 | 0 | 0 | | |
| Feasibility Considerations Evaluation | 20% | 20 | Low | Medium | High | | | | | |
| Fiscal Impact (high/med/low) | 7% | 7 | 8 | 6 | 4 | | | | | |
| Implementation Challenge | 7% | 7 | 8 | 6 | 4 | | | | | |
| Political Challenge | 7% | 7 | 8 | 6 | 4 | | | | | |
| | | 100 | | | | | | | | |

| Test Scheme #2: Low Cost VMT Reduction | | | | | | | | |
|--|---------------|---------|-----------|-----------|--------|--------------|---|--|
| Weight | Max Points | Poin | ts pe | r Valu | ie | | | |
| 30% | 30 | Capital | Operating | High | Medium | Low | | |
| 15% | 15 | 15 | 0 | | | | | |
| 15% | 15 | | | 0 | 7.5 | 15 | | |
| 40% | 40 | Yes | No | Community | City | Nieghborhood | Q | |
| 12% | 12 | 12 | 0 | | | | | |
| 8% | 8 | | | 8 | 6 | 4 | 0 | |
| 8% | 8 | | | 8 | 6 | 4 | 0 | |
| 4% | 4 | | | 4 | 2 | 0 | 0 | |
| 4% | 4 | | | 4 | 2 | 0 | 0 | |
| 4% | 4 | | | 4 | 2 | 0 | 0 | |
| 30% | 30 | Low | Medium | High | | | | |
| 10% | 10 | 10 | 6 | 2 | | | | |
| 10% | 10 | 10 | 6 | 2 | | | | |
| 10% | 10 | 10 | 6 | 2 | | | _ | |
| | 100 | | | | | | | |

| est Scheme | | High | VMT | Rate | !S | | |
|------------|---------------|-----------|-----------|-----------|--------|--------------|----|
| Weight | Max Points | Poin | ts pei | r Valu | ie | | |
| 0% | 0 | O Capital | Operating | High | Medium | Low | |
| 0% | 0 | 0 | 0 | | | | |
| 0% | 0 | | | 0 | 0 | 0 | |
| 52% | 52 | Yes | No | Community | City | Nieghborhood | No |
| 14% | 14 | 14 | 0 | | | | |
| 4% | 4 | | | 4 | 2 | 0 | 0 |
| 10% | 10 | | | 10 | х | 2 | 0 |
| 4% | 4 | | | 4 | 2 | 0 | 0 |
| 10% | 10 | | | 10 | 6 | 2 | 0 |
| 10% | 10 | | | 10 | 6 | 2 | 0 |
| 48% | 48 | Low | Medium | High | | | |
| 16% | 16 | 16 | 12 | 8 | | | |
| 16% | 16 | 16 | 12 | 8 | | | |
| 16% | 16 | 16 | 12 | 8 | | | |
| | 100 | | | | | | |

| ne | | |
|----|-------------------------|----|
| 1 | Enhanced Vanpool | 75 |
| 2 | E-Bike Subsidies | 72 |
| 3 | Transit Improvements | 49 |

| 1 | Enhanced | 65 |
|---|------------------|----|
| ٠ | Vanpool | 03 |
| , | E-Bike Subsidies | 64 |
| - | E-DIKE SUDSICIES | 04 |
| 3 | Transit | 61 |
| 3 | Improvements | 01 |

| 1 | Enhanced Vanpool | 68 | |
|---|---------------------|----|-----|
| 2 | Transit | 54 | Tie |
| - | Improvements | 34 | |
| | F_Riko | | |

Tied with E-Bike Subsidies



Figure 2: Test Scheme #1: VMT Reductions in EPC Areas

| Title Test Scheme #1: VMT Reductions in EPC Areas | | | | | | | | | | | |
|--|--------|---------------|---------|-----------|-----------|--------|--------------|----|----------------------|------------------|------------------|
| Per Criterion | Weight | Max Points | Poin | ts pe | r Valu | e | | | Resu | lts | |
| VMT Reduction Cost Evaluation | 20% | 20 | Capital | Operating | High | Medium | Low | | Transit Improvements | E-Bike Subsidies | Enhanced Vanpool |
| Project Type (capital vs operating) | 10% | 10 | 10 | 0 | | | | | 10 | 10 | 0 |
| Daily Cost per VMT Reduced (high/med/low) | 10% | 10 | | | 0 | 5 | 10 | | 5 | 10 | 10 |
| Equity Consistency Evaluation | 60% | 60 | Yes | No. | Community | Gity | Nieghborhood | No | | | |
| 1. No excess VMT would be generated by the new development in Santa Clara County. (yes/no) | 20% | 20 | 20 | 0 | | | | | 0 | 20 | 20 |
| 2. EPC areas with low VMT rates would decrease, maintain, or increase their average VMT rate. (county/city/neigborhood) | 12% | 12 | | | 12 | 8 | 6 | 0 | 6 | 8 | 12 |
| 3. EPC areas with high VMT rates would decrease their average VMT rate. (same as above) | 16% | 16 | | | 16 | 12 | 8 | 0 | 8 | 12 | 16 |
| 4. Non-EPC areas with low VMT rates would decrease their average VMT rate. (same as above) | 4% | 4 | | | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| 5. Non-EPC areas with high VMT rates would decrease their average VMT rate. (same as above) | 4% | 4 | | | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| 6. The non-EPC areas would decrease their average VMT rate. (same as above) | 4% | 4 | | | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| Feasibility Considerations Evaluation | 20% | 20 | Low | Medium | High | | | | | | |
| Fiscal Impact (high/med/low) | 7% | 7 | 8 | 6 | 4 | | | | 8 | 6 | 8 |
| Implementation Challenge | 7% | 7 | 8 | 6 | 4 | | | | 8 | 4 | 6 |
| Political Challenge | 7% | 7 | 8 | 6 | 4 | | | | 8 | 4 | 6 |
| | | 100 | | | | | | | 49 | 72 | 75 |

| 1e | | |
|----|-------------------------|----|
| 1 | Enhanced Vanpool | 75 |
| 2 | E-Bike Subsidies | 72 |
| 3 | Transit Improvements | 49 |



Figure 3: Test Scheme #2: Low Cost VMT Reduction

| Title | Test Scheme #2: | Low Cost | t VMT | Red | uction | 1 | | | | | |
|--|-----------------|---------------|------------------|----------------|-----------|--------|--------------|-----|----------------------|------------------|------------------|
| Per Criterion | Weight | Max Points | Points per Value | | | | Resu | | | | |
| VMT Reduction Cost Evaluation | 30% | 30 | Capital | Operating | High | Medium | Low | | Transit Improvements | E-Bike Subsidies | Enhanced Vanpool |
| Project Type (capital vs operating) | 15% | 15 | 15 | 0 | | | | | 15 | 15 | 0 |
| Daily Cost per VMT Reduced (high/med/low) | 15% | 15 | | | 0 | 7.5 | 15 | | 7.5 | 15 | 15 |
| Equity Consistency Evaluation | 40% | 40 | Yes | N _o | Community | City | Nieghborhood | No. | | | |
| No excess VMT would be generated by the new development in Santa Clara County. (yes/no) | 12% | 12 | 12 | 0 | | | | | 0 | 12 | 12 |
| EPC areas with low VMT rates would decrease, maintain, or increase their average VMT rate. (county/city/neigborhood) | 8% | 8 | | | 8 | 6 | 4 | 0 | 4 | 6 | 8 |
| EPC areas with high VMT rates would decrease their average VMT rate. (same as above) | 8% | 8 | | | 8 | 6 | 4 | 0 | 4 | 6 | 8 |
| 4. Non-EPC areas with low VMT rates would decrease their average VMT rate. (same as above) | 4% | 4 | | | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| 5. Non-EPC areas with high VMT rates would decrease their average VMT rate. (same as above) | 4% | 4 | | | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| 6. The non-EPC areas would decrease their average VMT rate. (same as above) | 4% | 4 | | | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| Feasibility Considerations Evaluation | 30% | 30 | Low | Medium | High | | | | | | |
| Fiscal Impact (high/med/low) | 10% | 10 | 10 | 6 | 2 | | | | 10 | 6 | 10 |
| Implementation Challenge | 10% | 10 | 10 | 6 | 2 | | | | 10 | 2 | 6 |
| Political Challenge | 10% | 10 | 10 | 6 | 2 | | | | 10 | 2 | 6 |
| | | 100 | | | | | | | 61 | 64 | 65 |

| ıe | | |
|----|------------------|----|
| 1 | Enhanced | 65 |
| | Vanpool | |
| 2 | E-Bike Subsidies | 64 |
| | Transit | |
| 3 | Improvements | 61 |
| | | |



Figure 4: Test Scheme #3: Reduce High VMT Rates

| Title | Test Scheme # | #3: Reduce | High | VMT | Rate | es | | | | | |
|---|---------------|---------------|------------------|-----------|-----------|--------|--------------|----|----------------------|------------------|------------------|
| Per Criterion | Weight | Max Points | Points per Value | | | | | | Results | | |
| VMT Reduction Cost Evaluation | 0% | 0 | Capital | Operating | High | Medium | Low | | Transit Improvements | E-Bike Subsidies | Enhanced Vanpool |
| Project Type (capital vs operating) | 0% | 0 | 0 | 0 | | | | | 0 | 0 | 0 |
| Daily Cost per VMT Reduced (high/med/low) | 0% | 0 | | | 0 | 0 | 0 | | 0 | 0 | 0 |
| Equity Consistency Evaluation | 52% | 52 | Yes | No | Community | City | Nieghborhood | No | | | |
| 1. No excess VMT would be generated by the new development in Santa Clara County. (yes/no) | 14% | 14 | 14 | 0 | | | | | 0 | 14 | 14 |
| 2. EPC areas with low VMT rates would decrease, maintain, or increase their average VMT rate. (county/city/neigborhood) | 4% | 4 | | | 4 | 2 | 0 | 0 | 0 | 2 | 4 |
| 3. EPC areas with high VMT rates would decrease their average VMT rate. (same as above) | 10% | 10 | | | 10 | 6 | 2 | 0 | 2 | 6 | 10 |
| 4. Non-EPC areas with low VMT rates would decrease their average VMT rate. (same as above) | 4% | 4 | | | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| 5. Non-EPC areas with high VMT rates would decrease their average VMT rate. (same as above) | 10% | 10 | | | 10 | 6 | 2 | 0 | 2 | 2 | 0 |
| 6. The non-EPC areas would decrease their average VMT rate. (same as above) | 10% | 10 | | | 10 | 6 | 2 | 0 | 2 | 2 | 0 |
| Feasibility Considerations Evaluation | 48% | 48 | Low | Medium | High | | | | | | |
| Fiscal Impact (high/med/low) | 16% | 16 | 16 | 12 | 8 | | | | 16 | 12 | 16 |
| Implementation Challenge | 16% | 16 | 16 | 12 | 8 | | | | 16 | 8 | 12 |
| Political Challenge | 16% | 16 | 16 | 12 | 8 | | | | 16 | 8 | 12 |
| | | 100 | | | | | | | 54 | 54 | 68 |

| ne | | |
|----|--------------|----|
| 1 | Enhanced | 68 |
| | Vanpool | 00 |
| 2 | Transit | 54 |
| | Improvements | 34 |
| 3 | E-Bike | 54 |
| | Subsidios | |

Tied with E-Bike Subsidies



Appendix P:
Equity
Consideration
s Materials:
Mineta/URBP
Class
Research Brief



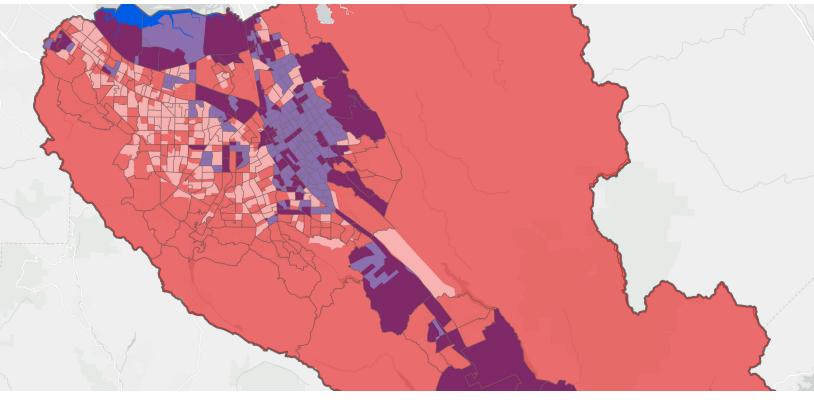




Exploring Equity Frameworks for a Cross-Jurisdictional Vehicle Miles Traveled Mitigation Program in Santa Clara County

Project 2346 May 2024

Serena E. Alexander, PhD Luana Chen Maxwell Belote-Broussard



Introduction

New developments like housing, office buildings, and stores generate vehicle trips. The Santa Clara Valley Transportation Authority (VTA) is working with partners to develop a new program called the Equitable Vehicle Miles Traveled (VMT) Program for Santa Clara County with goals of reducing driving from new developments and bringing transportation solutions to communities that need it most. The proposed program would provide a VMT mitigation option for local government agencies and developers, which would improve travel options for the community with an emphasis on cross-jurisdictional collaboration and equity. VTA enlisted the help of San José State University (SJSU) graduate students and a Mineta Transportation Institute (MTI) research team to identify ways to develop the program with equity in mind.

Study Methods

Student efforts unfolded during Phase 1 of VTA's community engagement and focused on identifying ways to advance program equity through the following: 1) a literature review to identify best practices for building equity into the program design, 2) mapping and spatial analysis of different inequities and burdens (in areas of income, health, pollution, and transportation) experienced throughout the county, 3) community engagement observations of Phase 1 community engagement events to assess VTA's community engagement approach, and 4) stakeholder interviews to gather in-depth community feedback on transportation needs, thoughts on new development, and the level of support for developments funding transportation solutions to reduce driving. Each student group had different methods for data collection and analysis to form recommendations for their respective focus areas. At the end of the semester, each group produced a policy report and presented preliminary recommendations to the VTA project team. The MTI research team continued

and refined student analysis using the same methods and linked findings from the student reports to develop a set of equity-focused recommendations for the VTA project team.

Findings

The analysis revealed that equity should be incorporated early and at multiple points throughout the program development and implementation phases. From the literature review, best practices identified for developing a program equity framework included defining program equity in a locally relevant way, embedding equity into the project selection process and program evaluation criteria, and developing an informative and implementable accountability plan. From the spatial analysis, additional areas to consider for community engagement and VMT mitigation measure selection were identified in northern Sunnyvale, Morgan Hill, and near Gilroy. Community engagement observations revealed that the VTA project team's approach to public meetings, focus groups, and surveys was excellent, but public engagement and program informational materials could be simplified for nontechnical audiences and the VTA project team could better leverage social media to foster dialogue with the community. Stakeholder interviews revealed that improved transit and enhanced feelings of safety for alternative travel modes are top transportation priorities and needs identified by the community. The interview responses also revealed that most community members are conditionally supportive of development contributions to VMT mitigation measures and the main concerns are transparency and accountability in the project selection and funding processes.

Policy/Practice Recommendations

The following are key recommendations from the report:

- Develop and adopt a localized definition of VMT equity that reflects inequities experienced in the community and aligns with the transportation needs and priorities of the community. This is a best practice identified in the literature review and the process of developing a definition can be informed by this project's spatial analysis and stakeholder interview findings.
- Develop an informative and implementable accountability plan to promote good governance, strengthen relationships between VTA and the public, and measure the progress of program equity goals.

- This is a best practice identified in the literature review and would address concerns voiced by interviewees regarding transparency in the project selection and funding process.
- Embed equity at key decision-making points, including project prioritization and evaluation metrics. This is a best practice identified in the literature review that advances equity in the program framework by building equity considerations in the program.
- Prioritize public transit investments to improve the availability, frequency, reliability, and speed of transit to make this a more attractive mode. Improved public transit was a major transportation need identified by the community during Phase 1 of the community engagement. Interviewees voiced a need for public transit to be more competitive with travel by car in order to shift away from driving as a primary travel mode.

About the Authors

Dr. Serena Alexander is an Associate Professor of Public Policy and Environmental Engineering at Northeastern University. Her research focuses on developing cuttingedge strategies to address climate change and climate justice.

Luana Chen and **Maxwell Belote-Broussard** are graduate students in San José State University's Urban and Regional Planning Program.

To Learn More

For more details about the study, download the full report at transweb.sjsu.edu/research/2346



MTI is a University Transportation Center sponsored by the U.S. Department of Transportation's Office of the Assistant Secretary for Research and Technology and by Caltrans. The Institute is located within San José State University's Lucas Graduate School of Business.

Appendix Q: Local Questions



Local Questions on Legal, Practical, and Other Considerations

Due to the relative novelty of VMT mitigation programs, local jurisdictions and VTA staff posed numerous questions about the recommended VMT exchange structure during the development of this program framework. Many of these concerns have been addressed throughout the report, with a few remaining points addressed here:

Does SB 743 require a VMT bank?

No; SB 743 is agnostic about the type of VMT mitigation program, or whether a VMT mitigation program is established at all, as discussed in **Chapter 1** of the report.

What are the administrative and reporting requirements?

These are described in this report's Legal Basis and Justification section.

Could funds go toward a percentage of a project? What does it mean that applicants must fund an entire mitigation action?

Under a VMT exchange structure, the VMT mitigation exchange is occurring at the level of a project (as opposed to credits that represent some amount of VMT reduced). Thus, funds must be allocated to distinct projects that in total represent an amount of VMT reduced equivalent to what the project applicant must mitigate.

Why does the VMT bank have more administrative requirements?

A VMT bank requires the administering agency to continually update its calculations of the cost of purchasing a VMT credit, depending on which VMT mitigation actions are included in the program and the cost of delivering those actions. The administering agency must also monitor each mitigation action to verify that it is producing the expected level of VMT reduction and adjust the cost of future VMT credits to account for shortfalls in actual VMT reduction. This can be a financially burdensome and technically challenging process, making this program structure harder to implement quickly.



What would be an example of the exchange's eligibility criteria to add a new action?

This is described in **Chapter 4** of the report, both related to the VMT reduction project selection and evaluation process as well as how that process would be updated over time by the VMT reduction project mitigation action review team.

How often would the pre-qualified list be updated?

The specific timetable for this will be determined in the legal agreements developed between the program sponsor and lead agencies participating in the program.

Can the VMT mitigation be calculated/measured as GHG emission reductions?

This is not necessary but could be specified within the legal agreements developed between the program sponsor and lead agencies participating in the program.

Can you further explain the "first-in problem" which states the most cost-effective measures will be funded first?

The "first-in" problem refers to the fact that applicants may flock to fund the most cost-effective measures first. Scalable VMT reduction actions like e-bike subsidies provide one way to overcome the first-in problem; the ability to provide the action can grow with demand to a degree. There are limits, however, to what the market can absorb, which would need to be evaluated by the review team.

