Module 3 – VMT Mitigation & Steps to Policy Adoption



FEHR PEERS Date: September 21, 2022

Cohort: Alameda County

Presented by: Meghan Weir, Karina

Macias & Monique Ho

Agenda

- 1 Introduction & Review
- **2** VMT Mitigation

Break (5 min)

- 3 Policy Adoption & Implementation Considerations
- 4 Next Steps



Introduction





Ground Rules

- Be an active participant Let's learn from each other!
- Keep your video on if possible
- Ask questions by using the raise hand function or use the chat
- Take turns speaking and give others a chance to speak up, please mute when not speaking

Remember, this is **not** a webinar, we want it to be interactive!

Purpose & Goals of Technical Assistance

- VMT policy adoption is required for compliance with SB743
 - Promote the reduction of greenhouse gas emissions
 - Promote the development of multi-modal transportation networks
 - Promote a diversity of land uses
- Help you create VMT policies that support local values and other policies/goals (housing elements, climate action, etc.)
- Streamline VMT analysis for common land uses, and provide a framework for analyzing unique land uses

This TA program is designed to help you implement the basic steps through approachable templates and workshops, and free, one-on-one consultation assistance

Curriculum Overview

Phase 1a: Summer/Fall 2022

Phase 1b: Fall/Winter 2022



Introduction to SB 743

- Overview of Technical Assistance
- Intro to SB 743 & VMT
- OPR Recommendations



Two-Step Adoption: Thresholds and Screens

- Application of VMT metrics, thresholds, and screens to your jurisdiction
- Review VMT data
- Peer examples



VMT Mitigation & Policy Adoption

- VMT mitigation concepts
- Available tools
- Adoption strategy and implementation considerations



Implementation Support

- Non-CEQA transportation
- Jurisdiction support
- Mitigation fees, banks, and exchanges







Module 3 Learning Objectives

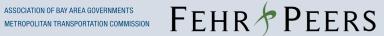
VMT Mitigation

- Understand VMT mitigation concepts and tools for quantifying effectiveness of Transportation Demand Management (TDM) measures
- Understand what policies you can adopt to support VMT mitigation

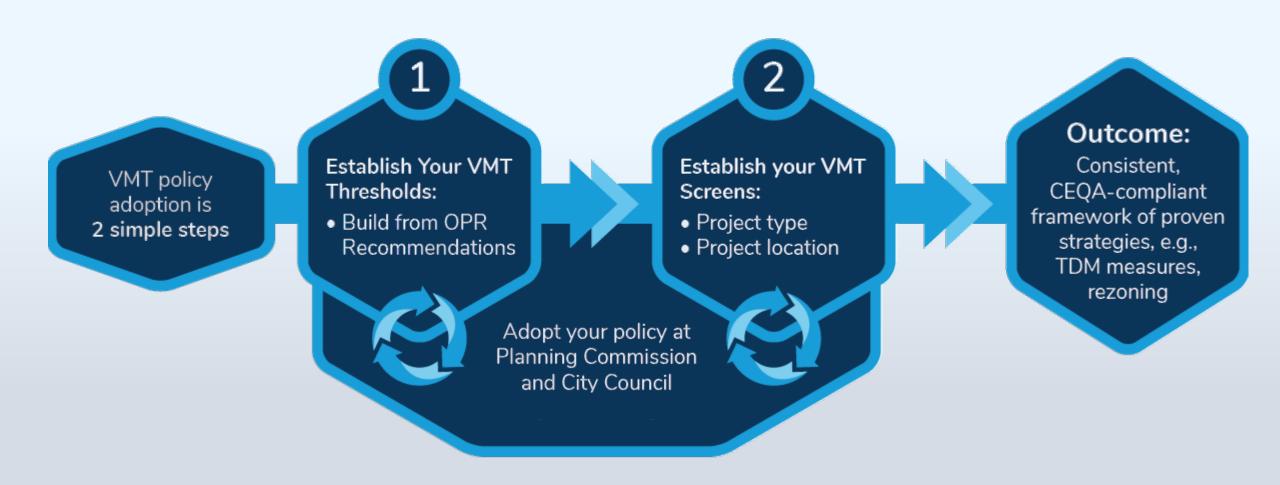
VMT Policy Adoption Strategy

Review process to adopt VMT policy

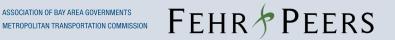




Module 2 Recap & Group Share







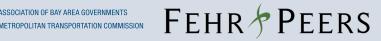


Module 2 Recap & Group Share

Module 2 Memo Template – Group Share:

- Share experiences reviewing and filling out memo templates
- Any successful outcomes during this activity, such as conversations that helped to identify appropriate metrics and thresholds?
- Any challenges that arose during this activity?
- Is anyone ready to adopt these policies?





VMT Mitigation





What is VMT Mitigation?

Mitigation: Jurisdictions must investigate and disclose all feasible measures to reduce impacts below the threshold of significance

How to reduce Vehicle Miles Traveled?

- Reduce the <u>number</u> of vehicle trips
 - Shift travel to non-driving modes
- Reduce the <u>length</u> of vehicle trips
 - Increase densities or encourage mixed uses



What is Transportation Demand Management (TDM)?

Traditional TDM Approach: On-site programs for employers such as commuter benefits, bicycle parking, etc.

TDM as a tool for VMT Mitigation can include:

- On-site programs for employees, residents, visitors
- On-site or near-site design features supporting active transportation or transit modes
- Parking management
- Community serving infrastructure and programs

Example VMT Mitigation Measures

Site-Specific Features

- Commute trip reduction program
- Price parking or provide parking "cash-out"
- Limit parking supply
- Integrate affordable housing
- Increase residential density
- Provide ridesharing program
- Provide subsidized transit passes

Community-Based Measures

- Provide community-based travel planning
- Charge for public parking
- Provide pedestrian network improvements
- Construct or improve bicycle facilities
- Expand transit network or service
- Improve bus stops and other transit-supportive roadway treatments
- Implement a carshare program
- Implement bike or scooter share program







Related Plans & Programs

How is VMT mitigation related to other policies or programs?

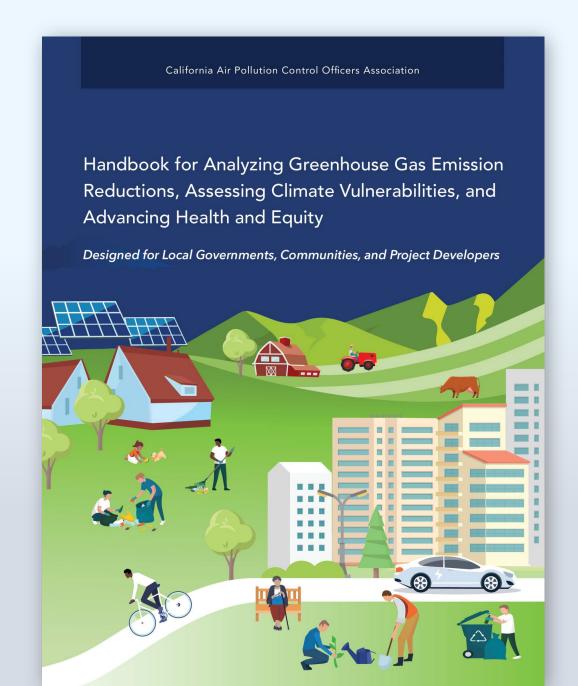
- Existing trip reduction ordinances
- Parking & TDM ordinances
- → VMT mitigation can build on existing programs, but quantifying effectiveness should be based on the best available research.
- → Updating existing TDM ordinances is not required



What are some TDM plans, policies or programs that your city already has?

VMT Mitigation Resources

- CAPCOA Handbook Update
- California Emissions Estimator Model (CalEEMod)
- TDM+ tool through Caltrans
- Alameda CTC VMT Reduction Calculator Tool







Alameda CTC VMT Reduction Calculator Tool



- Assist member agencies with implementation of SB743
- Consistent method for use throughout Alameda County
- Develop a tool to estimate the effects of VMT reduction strategies proposed for local land development projects
- Build from a tool developed for San Diego Association of Governments, and customize for Alameda County

Project Level Strategies



Commute Programs

Voluntary Commute Program

Mandatory Commute Program

Employer Carpool

Subsidized Transit Passes

Employer Vanpool

Telecommute Program Land Use Strategies

Transit Oriented Development

Increase Residential Density

Increase Employment Density

Parking Management

Parking Pricing

Parking Cash-Out

Limit Parking Supply

Provide Bike Parking

City/Community Level Strategies



Neighborhood Enhancement

Street Connectivity

Pedestrian Facility Improvements

Bikeway Network Expansion

Bike Facility Improvement

Traffic Calming Measures

Bikeshare

Carshare

Community Based Travel
Planning

Affordable/BMR Housing

Transit Strategies

Transit Service Expansion

Transit Frequency Improvements

Transit Supportive Treatments

Transit Fare Reduction

Micro-transit/NEV Shuttle

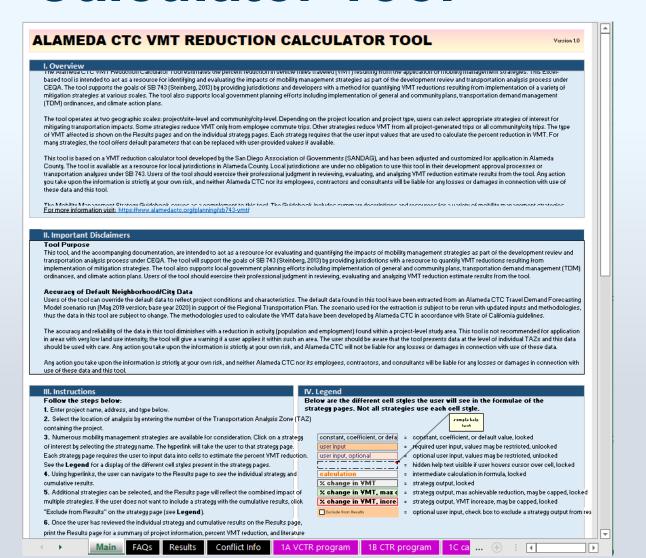
Tool Structure and Functions



- User enters project location by TAZ
- Tool contains data on many attributes of each TAZ that affect how VMT reduction strategies will work: population and employment density, mode split, trip lengths, others
- User selects VMT reduction strategies and enters required inputs
- Tool estimates the % VMT reduction resulting from that combination of strategies in that location

Alameda CTC VMT Reduction Calculator Tool





Alameda CTC VMT Reduction Calculator Tool—Design Document

Prepared for: Alameda CTC

https://www.alamedactc.org/planning/sb743-vmt/

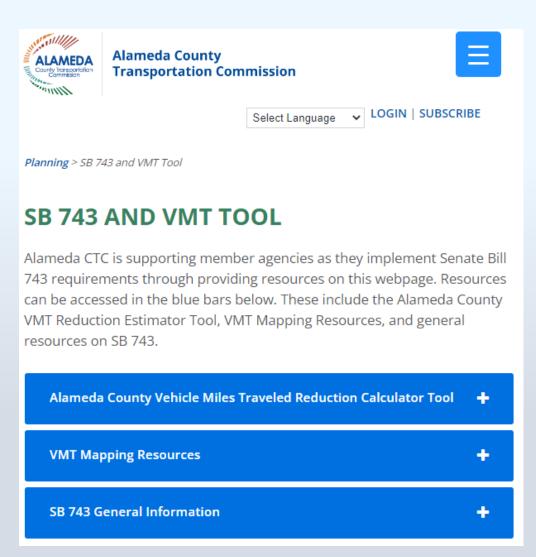
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VMT Mapping Resources

- VMT Mapping Resources
 - VMT per Capita 2020 and 2050
 - VMT per Employee 2020 and 2040
- VMT Tables
 - VMT Estimation Method and Dictionary
 - VMT Summary Tables
 - 2020 VMT TAZ Tables
 - 2040 VMT TAZ Tables
- VMT Maps
 - Alameda CTC Mapping Tool
 - Maps: Countywide, North Planning Area, Central Planning Area, East Planning Area and South Planning Area, per Capita and per Employee at TAZ levels



Additional Resources at Alameda CTC Webpage

www.alamedactc.org/planning/sb743-vmt/



VMT Mitigation Policy

After adopting thresholds and screening criteria, what VMT mitigation guideance should you provide?

Recommended an analytical approach for calculating mitigation effectiveness to remove guesswork:

- Use locally appropriate VMT mitigation tool, if available, or
- Reference resources for effectiveness calculations (e.g., CAPCOA or the latest available TDM research)



VMT Mitigation Policy

What other TDM or mitigation guidance would be helpful?

- 1. Review local TDM ordinance or requirements and determine if they need to be updated
 - Start by comparing local requirements to the list of CAPCOA measures presented at the end of the Module 2 memorandum
- 2. Identify off-site mitigation measures when impacts can't be mitigated on-site
 - VMT fee or exchange programs. For more information, see Module 3 memo template.



Module 2 Template

• Access here

Module 3 Preparation - VMT Mitigation Assessment

This table is intended to spark staff-level conversations about the types of VMT mitigation that are appropriate for your jurisdiction in preparation for Module 3, which will focus on VMT mitigation.

The CAPCOA handbook (https://www.caleemod.com/handbook/full_handbook.html) is a resource for California communities and developers to leverage in quantifying GHG emissions and VMT reductions. Using the latest research, handbook authors outline different GHG mitigating measures and how to estimate their predicted effectiveness in one's own jurisdiction.

Review of VMT Mitigation Strategies

| | | | Score 1 - most applicable | 2.00 | |
|-------------------|--|--------------------------------|--|--|--|
| CAPCOA 2021 ID | VMT Reduction Measure | Type of VMT Affected | 2 - somewhat applicable 3 - least applicable N/A | Notes (Related policies/plans/programs, opportunities for coordination, considerations for implementation, etc.) | |
| Land Use - | Higher Effectiveness | | | | |
| T-1 | Increase Residential Density | Project-generated trips | | | |
| T-2 | Increase Job Density | Project-generated trips | | | |
| T-3 | Provide Transit-Oriented Development | Project-generated trips | | | |
| T-4 | Integrate Affordable and Below Market Rate Housing | Project-generated trips | | | |
| T-17 | Improve Street Connectivity | All neighborhood/city trips | | | |
| Trip Reduc | ction Programs – Medium F | Effectiveness | 7- | | |
| T-5, T-6, T-7, | Implement Commute Trip Reduction Program | Employee commute trips | | | |
| T-8, T-11 | Providing Rideshare and Vanpool Programs | Employee commute trips | | | |
| T-9 | Implement Subsidized or Discounted Transit Program | Employee commute trips | | | |
| T-10 | Provide End-of-Trip Bicycle Facilities | Employee commute trips | | | |
| T-12 | Price Workplace Parking | Employee commute trips | | | |
| T-13 | Implement Employee Parking Cash-Out | Employee commute trips | | | |
| T-23 | Community-Based Travel Planning | Household trips | | | |
| Parking or | Road Pricing/Management | - Medium Effectivenes | S | | |
| T-15 | Limit Residential Parking | Project-generated | | | |

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Module 3 Template

Access <u>here</u>

Table 1 below summarizes staff's recommendations for the tools that development and transportation projects should use to mitigate VMT impacts. Table 2 presents follow up actions related to policy and ordinance updates that staff recommend to support VMT mitigation.

Table 1: VMT Mitigation Approach

| Project Type | Available Tools and Resources | Staff Recommended Tool | Rational e |
|---|--|---------------------------|---------------|
| Land Use: Residential and Employment Uses | Countywide tool Statewide tools (e.g., CAPCOA, TDM+) | | |
| Land Use: Other projects | Statewide tools (e.g., CAPCOA, TDM+) | | |
| Transportation projects: Capacity increasing (vehicle capacity reducing projects are generally screened out) | Caltrans guidance | | |

Table 2: Additional Actions VMT Mitigation Policies and Ordinances

| Policy, Program or Ordinance Type | Relationship to VMT Mitigation | Staff Recommendation | If yes, identify responsible City department |
|---|--|-------------------------|--|
| Provide programmatic guidance through one or more of the following: A) Identify menu of locally appropriate TDM measures, A) Adopt a local TDM ordinance, and/or B) Participate in a countywide TDM program | Provides locally appropriate guidance on TDM implementation, monitoring, and administrative requirements | | |
| Update local parking standards | Reduced parking supply compared to traditional parking minimums can reduce VMT | | |
| Update or create a transportation impact fee based on VMT | LOS-based TIF programs may increase VMT, while VMT TIF programs could reduce VMT | | |
| Participate in a countywide or regional VMT mitigation fee program | Allows projects to fund off- site VMT-reducing improvements at a regional or countywide scale | | |
| Create a local VMT mitigation fee program | Allows projects to fund off- site VMT-reducing improvements at a city scale | | |



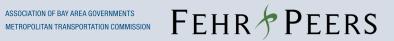
Discussion

What other questions or concerns do you have about VMT mitigation? Any questions about the Module 3 memo template?

Break

(5 minutes)





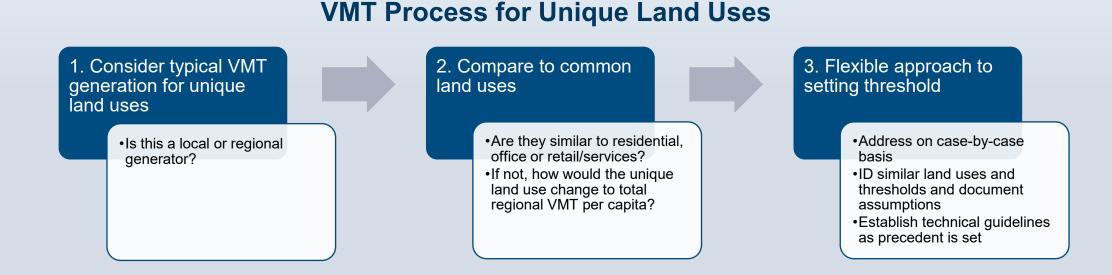
Adoption Strategy & Implementation Considerations



Goals for this Program

"Get the basics done first, then tackle the challenging stuff"

- 1. Streamline VMT analysis for common land uses
- 2. Establish a basis on which to guide future decisions about more complicated or unique land uses, which would include:



Steps to SB 743 Compliance

Prepare Confirm SB743 requirements Review threshold and screening guidelines Review existing local

CEQA process and

related policies

Define local VMT data resources

> **Define local VMT** thresholds

Define local VMT analysis screens

Adopt Adopt screening criteria

Adopt VMT thresholds

mplement Identify VMT mitigation tools and resources

Identify supporting policy needs (e.g., TDM, parking or safety)

Define non-CEQA analysis requirements (e.g. LOS)

Typical Engagement

Internal Staff

Decision Makers

Internal Staff, may need decision maker input

Steps to SB 743 Compliance

Prepare Confirm SB743

requirements

Review threshold and screening guidelines

Review existing local CEQA process and related policies

Define local VMT data resources

Define local VMT thresholds

Define local VMT analysis screens

Adopt

Adopt screening criteria

Adopt VMT thresholds

Implement

Identify VMT approach, mitigation tools, and resources

Identify supporting policy needs (e.g., TDM, parking or safety)

Define non-CEQA analysis requirements (e.g. LOS)

Typical Engagement

Petaluma, Fremont

Milpitas, Vacaville

Internal Staff

Technical Advisory Committee (TAC) or regular cross-department internal teams reviewed details

Staff reports based on internal discussions

Decision Makers

Planning Commission & Council study sessions and adoption hearings

Planning Commission & Council presentation

Internal Staff, may need decision maker input

Local VMT mitigation, TDM ordinance, transportation review guidelines to address CEQA and non-CEQA

General Plans used to evaluate other related policies

Level of Effort

Steps to Adoption: Engaging Decision Makers

TA Materials:

- Presentations: Short council adoption or long study session
- Staff reports and resolutions: Templates and policy adoption language
- Internal guidance documents

What additional documents, tools, or resources would support you in moving forward with VMT policy adoption?

RESOLUTION NO.

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CHULA VISTA ADOPTING THE CHULA VISTA TRANSPORTATION STUDY GUIDELINES IMPLEMENTING SENATE BILL 743

WHEREAS, Senate Bill 743, which replaces Level of Service (LOS) with Vehicle Miles Traveled (VMT) as the metric for determining the significance of transportation impacts under the California Environmental Quality Act (CEQA), requires municipalities to adopt guidelines to implement the provisions of SB 743 by July 1, 2020; and

WHEREAS, the guidelines will assist applicants, professionals, City personnel, and other stakeholders to prepare, review, and process CEQA transportation studies as required by SB 743; and

WHEREAS, in accordance with Resolution 2019-236, the City retained a multidisciplinary consulting team led by Fehr & Peers, a recognized expert in the area of SB 743 implementation, to advise City staff in developing the Transportation Study Guidelines; and

WHEREAS, the development of the Transportation Study Guidelines involved review of a wide range of guidance documents and practices, including the Governor's Office of Planning and Research's Technical Advisory; the Institute of Transportation Engineers' Guidelines for Transportation Impact Studies in the San Diego Region; and implementation procedures developed by other agencies; and

WHEREAS, the development of the Transportation Study Guidelines carefully considered the unique characteristics and community values of the City of Chula Vista; and

WHEREAS, the Transportation Study Guidelines provides specific direction for conducting a Transportation Study for CEQA review, and provides guidance on VMT estimation, thresholds of significance, and procedures for screening certain projects considered unlikely to have a significant impact; and

WHEREAS, the Transportation Study Guidelines also provides direction on how to analyze a project's effect on transit, pedestrian, and bicycles facilities, and on LOS; and

WHEREAS, the Transportation Study Guidelines may be modified from time to time with the approval of the City Manager or designee.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Chula Vista, that it adopts the City of Chula Vista SB 743 Transportation Study Guidelines.

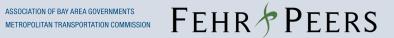
Presented by Approved as to form by

Kelly G. Broughton, FASLA Development Services Director Glen R. Googins City Attorney



Review Public-Facing Materials





Next Steps

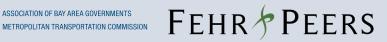




What's Next

- Feedback survey: https://www.surveymonkey.com/r/Module3 MTCVMT
- Office hours Wednesday, 10/5, 10-12
 - "Learn from an early adopter"
 - VMT mitigation tools
 - Walk through memo templates and public-facing materials
- Module 4 Tuesday, 10/18, 10-12





Thank you!

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