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Regional VMT Mitigation Study

Agenda

- SB 743 Primer
- Work Plan
- Overview of VMT Mitigation Programs
- TREDLite
- Project Status and Schedule

The diagram shows a road with four vehicles (two yellow, two blue) on the left. A dimension line below the road indicates a distance of 3 miles. A text box at the bottom right states: "4 vehicles travel 3 miles or simply 4x3 = 12 VMT".

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Regional VMT Mitigation Study



SB 743 Overview

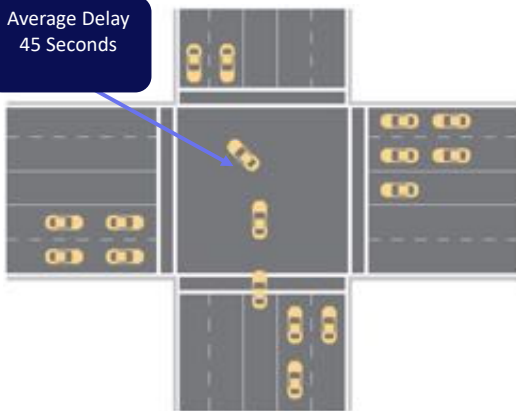
- SB 743 is CEQA Specific
- Basis for a “transportation significant impact” determination
- Sustainability and GHG reduction by
 - Denser infill development
 - Reducing single occupancy vehicles
 - Improved mass transit
- Lead agencies have until July 1, 2020
- Most recent guidance is from December 2018
- Applies to both land use and transportation projects
- VMT is the principal metric

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Level of Service

Impact to the Driver

Average Delay
45 Seconds



LOS A B C **D** E F

Highway Capacity Manual

Vehicle Miles Traveled

Diver's Impact to Transportation System



30 miles

4 vehicles travel 30 miles
or simply
 $4 \times 30 = 120 \text{ VMT}$

120 VMT / 6
Drivers/Passengers =
20 VMT/Capita

Travel Demand Model

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Regional VMT Mitigation Study



Work Plan

- Task 1. Literature Review
- Task 2. Analysis of VMT Mitigation Framework Options
- Task 3. Public Outreach
- Task 4. Project Selection and Modeling
- Task 5. Develop Administrative Approach & Adoption of Fee Program
Recommended Administrative Approach
- Task 6. Draft and Final Report

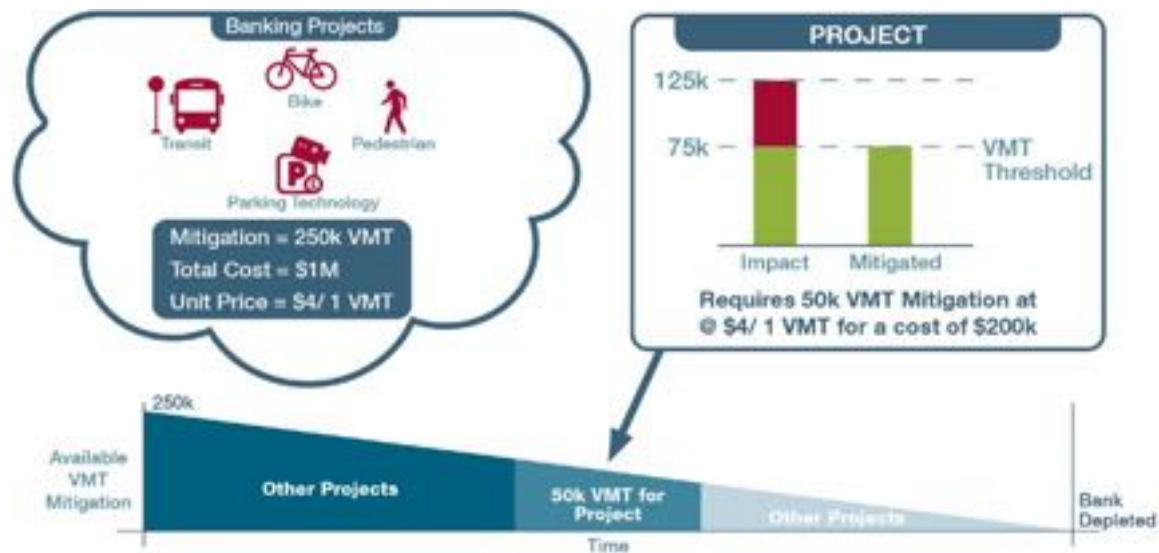
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Fee Based VMT Programs



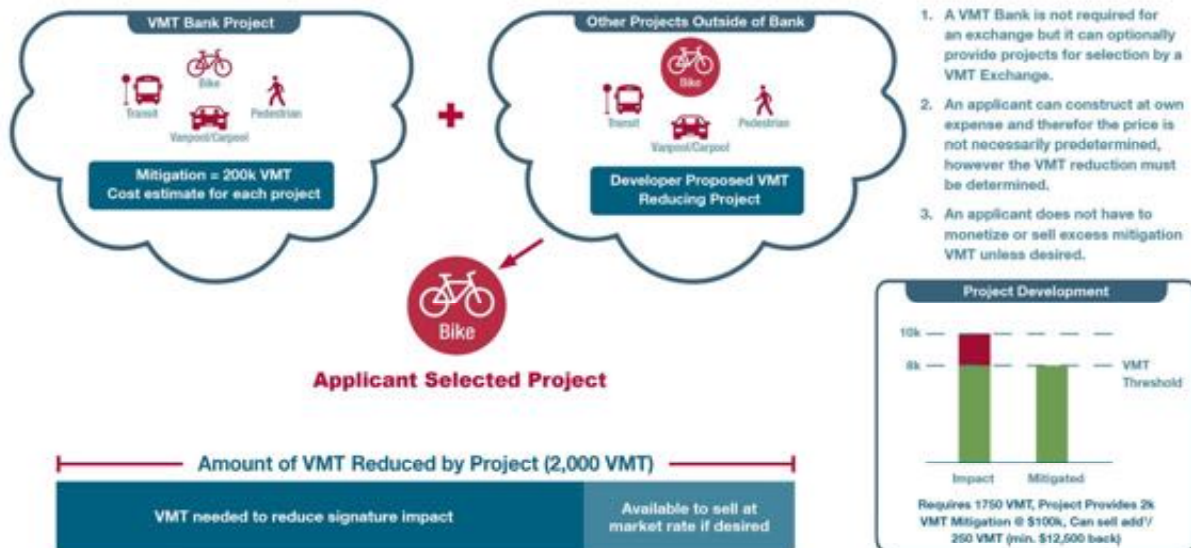
6

How VMT Banking Works



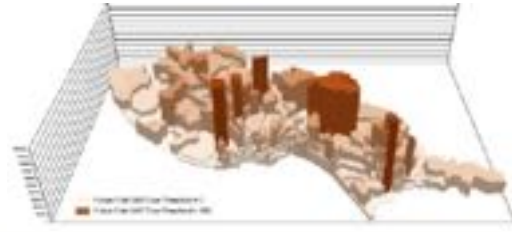
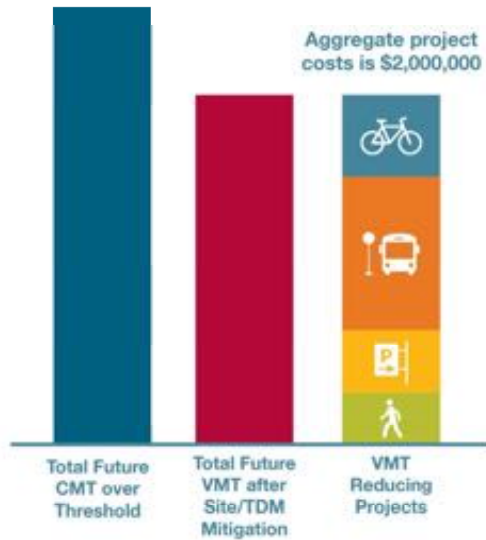
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How a VMT Exchange Works



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How a VMT Impact Fee Program Works

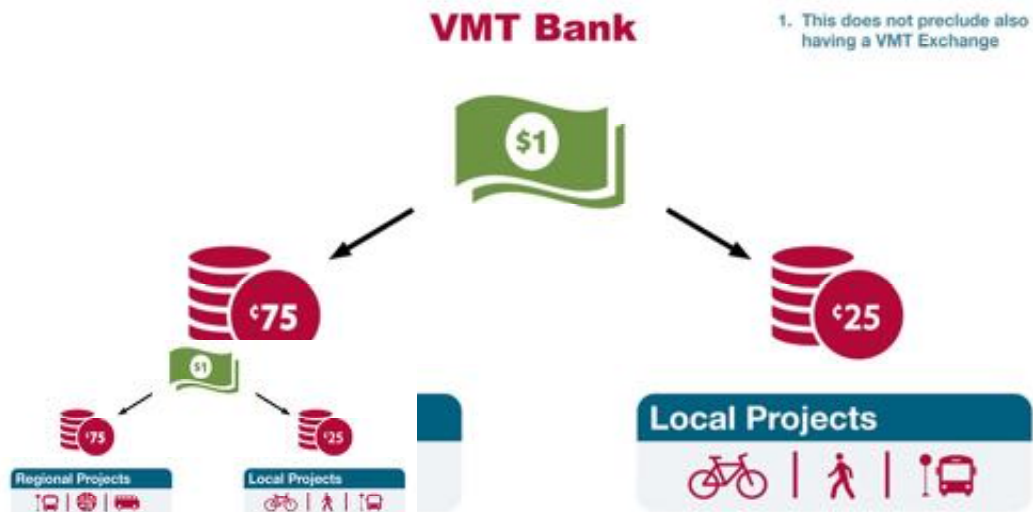


VMT Impact Fee Schedule

Land Use Type	Amount	Units	Fee/Unit	Total
Residential	500	Houses	\$2,000	\$1,000,000
Industrial	5,000,000	S.F.	\$0.10	\$500,000
Office	2,000,000	S.F.	\$0.13	\$250,000
Regional Commercial	500,000	S.F.	\$0.20	\$250,000
Total				\$2,000,000

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Local + Regional VMT Bank



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TREDLite

»TREDLite Log In

Choose Your Location

Select parcels by choosing them on the map, searching the address, or uploading a project boundary shapefile.

Jurisdiction
Unincorporated Santa Cruz County

Address
Search

Parcel Selection
Zoom in on the map to the parcel level to select the parcels.

Select From Map
Upload Project Shapefile

Single ☐ Box ☐ Shape ☒

Undo Clear

Next

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TREDLite

»TREDLite Log In

Analysis

Project Name: Example
Location: Oakland
Analysis Year: 2019

Project Land Use & Intensities:

Land Use	Intensity	Units	Per Capita/Employee VMT	VMT With Mitigation	Total VMT	Threshold	Significant Impact
220	88	Dwelling Unit(s)	11.5	11.5	2,981.9	14.3	No
Totals			11.5	11.5	2,981.9		

Total Emission Estimates:

Pollutant	Mobile	Mitigation	With Mitigation	Non Mobile	Total
CO (lb/day)	29.88	0.00	29.88	37.87	67.75
ROG (lb/day)	2.73	0.00	2.73	5.07	7.80
NOX (lb/day)	4.02	0.00	4.02	5.70	9.71
SOX (lb/day)	0.06	0.00	0.06	0.07	0.12
PM2.5 (lb/day)	1.43	0.00	1.43	1.60	3.04
PM10 (lb/day)	5.22	0.00	5.22	5.39	10.61
CO ₂ (mt/year)	845.23	0.00	845.23	1,344.56	2,189.80

Project Presumptions of Less than Significant Impact

☐ Within a 1/2 mile of Major Transit Stop
☐ Less than 110 Trips per Day

If your project result is higher than the threshold, we recommend clicking the **Mitigate VMT** button to learn and decide on ways to mitigate your transportation impact. Otherwise, click Print Results.

Back Print Results Mitigate VMT

ITE 220

VMT/Capita

Regional Average (VMT/Capita): 16.9 Threshold (15% below Average): 14.3

Metric	Project	Mitigation	With Mitigation
VMT/Capita	11.5	0.0	11.5
Daily Trips	644.16	0	0

Pollutant	Mobile	Mitigation	With Mitigation	Non Mobile	Total
CO (lb/day)	29.88	0.00	29.88	37.87	67.75
ROG (lb/day)	2.73	0.00	2.73	5.07	7.80
NOX (lb/day)	4.02	0.00	4.02	5.70	9.71
SOX (lb/day)	0.06	0.00	0.06	0.07	0.12
PM2.5 (lb/day)	1.43	0.00	1.43	1.60	3.04
PM10 (lb/day)	5.22	0.00	5.22	5.39	10.61
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Land Use Presumptions of Less than Significant Impact

☐ Affordable Housing

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Regional VMT Mitigation Study



Status and Next Steps

- Completed Three TAC/SAC Meetings Completed
- Completed Model Update
- Developed and Implemented Public Outreach
- Prepare Program Framework Documentation
 - Establish Draft Program Goals
 - Establish Draft Program Evaluation Criteria
 - Documentation of “Additionality” and other Legal Requirements
- Develop Candidate Project List
- Establish Project Analysis Methodologies
- Begin Test Project Analysis
- Next Meeting July

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Questions?

