



Regional VMT

Mitigation Program Study

Prepared for:



Prepared by:



Agenda

- Study Purpose
- Stakeholder and Technical Advisory Committees
- Mitigation Need
- Program Analysis
- How a VMT Bank Works
- Project Analysis
- Findings and Next Steps

Study Purpose

To determine the feasibility of a Regional VMT Mitigation Program for the Fresno Region.

Stakeholder and Technical Advisory Committees

Stakeholder Advisory Committee

- Caltrans Members
- Fresno COG member jurisdictions
 - Fresno County
 - 15 Incorporated Cities
- Community-based Organizations (CBOs)
- Developer Community Members
 - Including those who have expertise in affordable housing

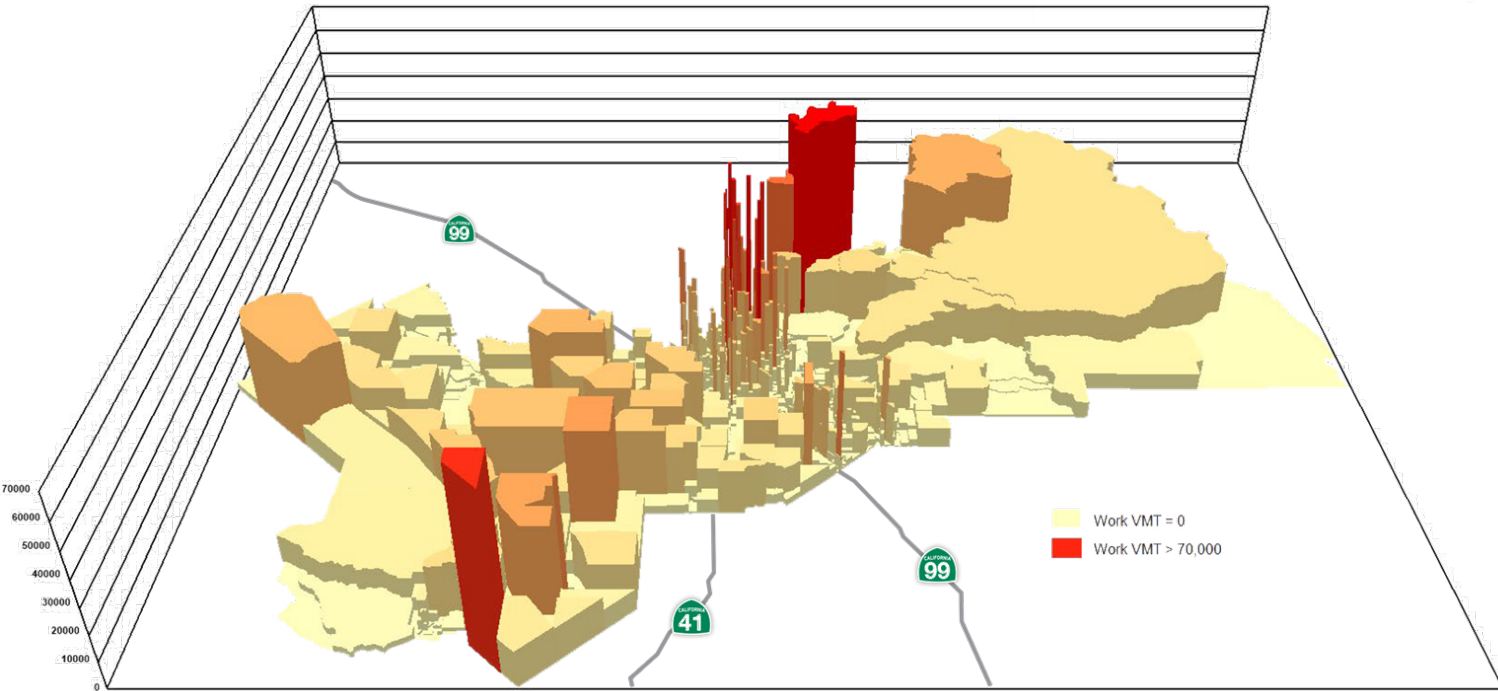
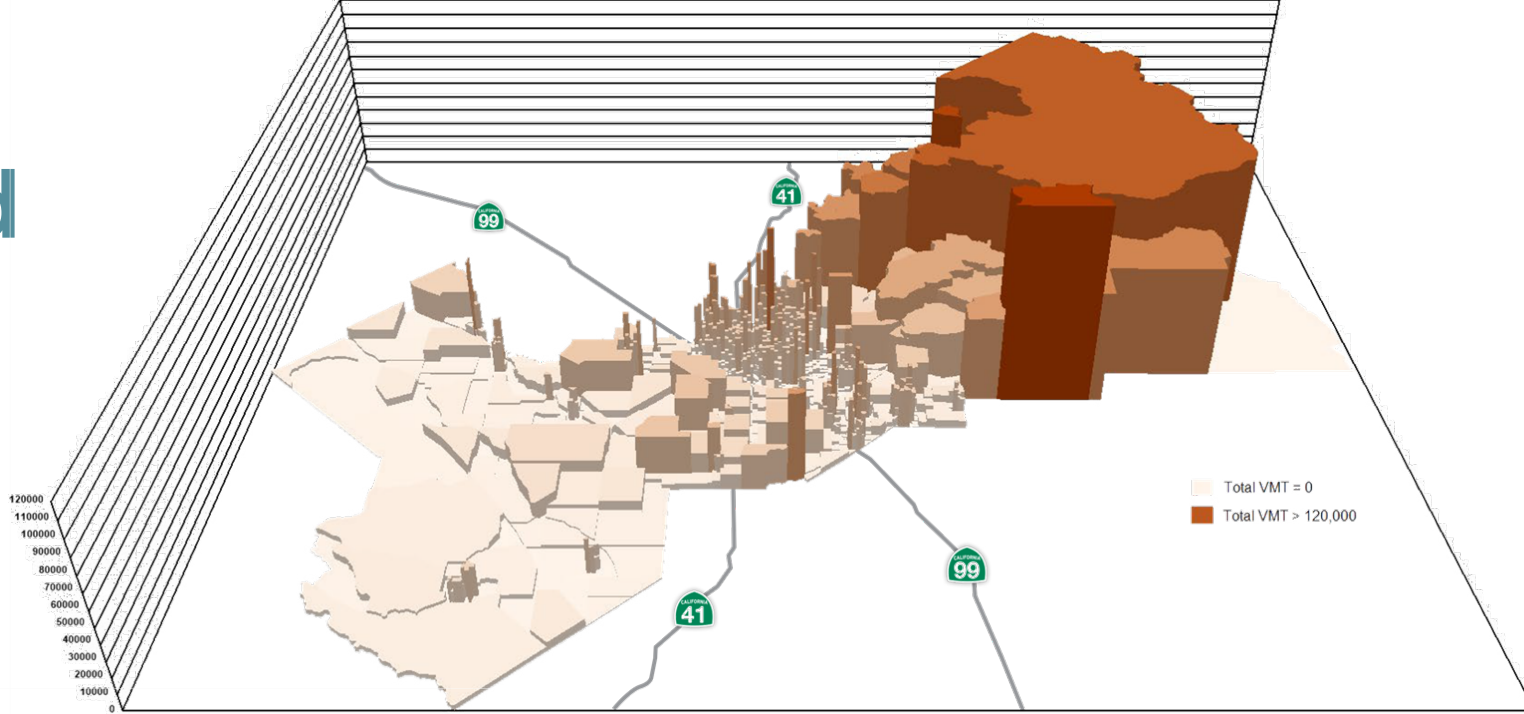
30 Total Members

Technical Advisory Committee

- 4 Caltrans Members
- 1 Land Use Attorney
- 2 Public Agency Members
 - CCTA and Santa Cruz County
- 2 Consultant Technical Experts












9 Total Members

VMT Mitigation Need



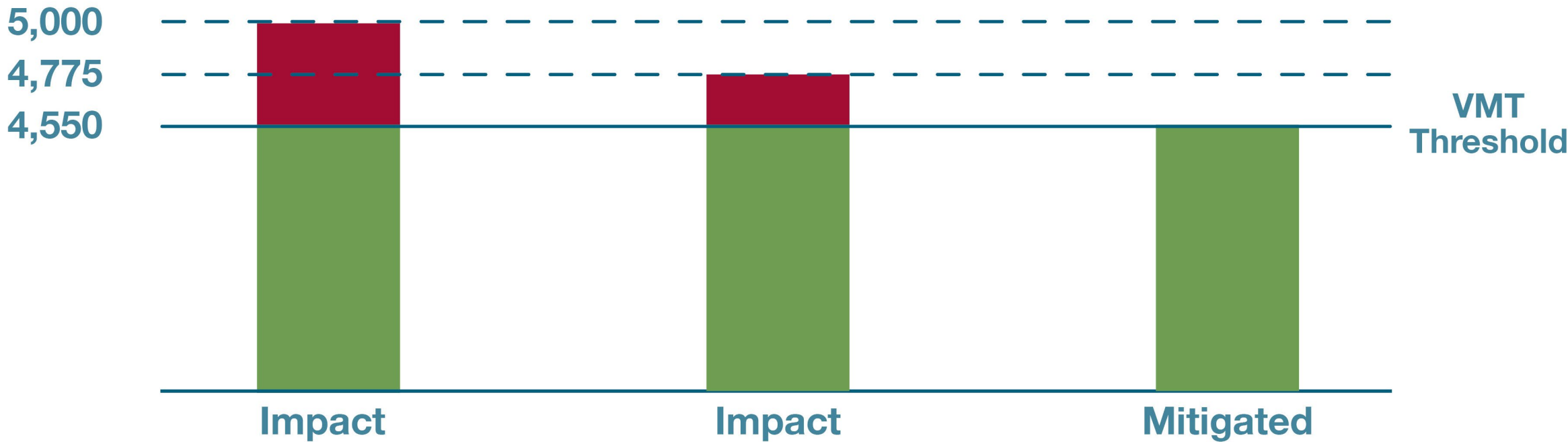
2035 Daily VMT Summary for Anticipated Growth	Totals (13% Threshold)
Households under Threshold	41,257
Households over Threshold	39,163
Employment under Threshold	26,335
Employment over Threshold	15,500

Program Analysis

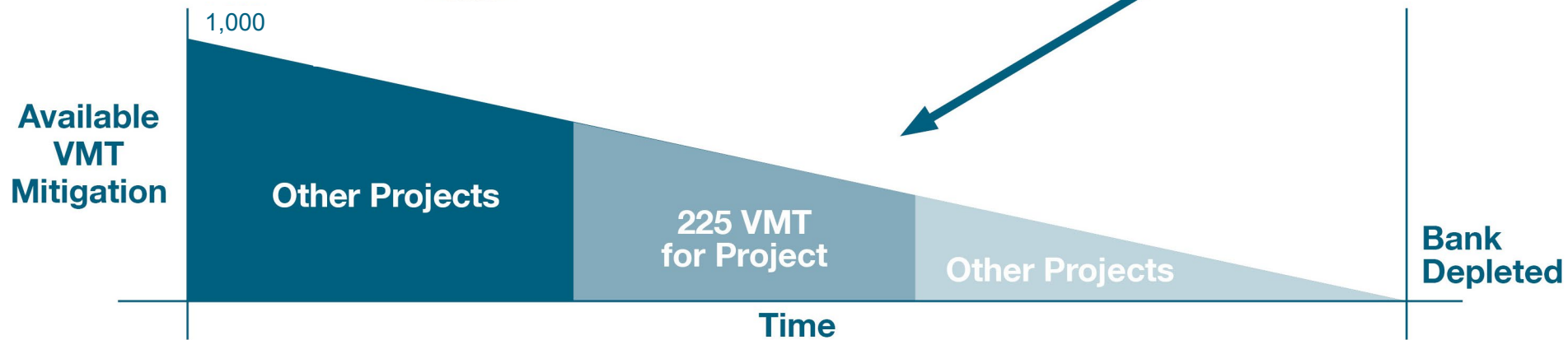
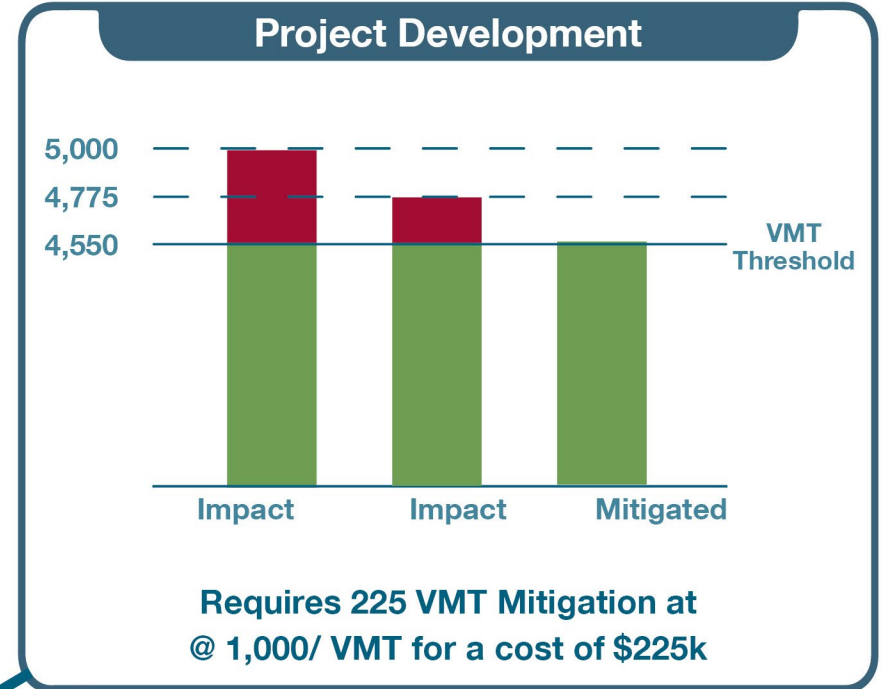
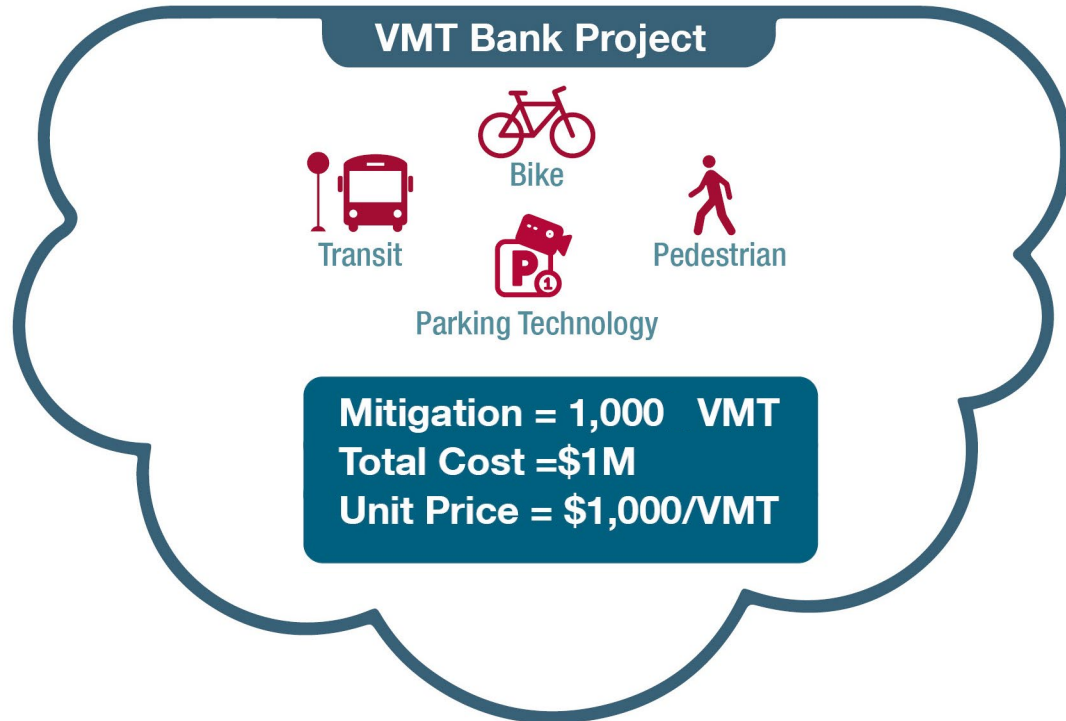
		VMT Bank	VMT Bank Plus	VMT Exchange	VMT Bank with Exchange	VMT Impact Fee
						
	Legal	●	●	●	●	●
	Effective	●	●	●	●	●
	Geography	●	●	●	●	●
	Administration	●	●	●	●	●
	Equitable	●	●	●	●	●
	Alignment	●	●	●	●	●

● Feasible ● Concern

How a VMT Bank Works



How a VMT Bank Works












Project Evaluation Summary and Potential Fee

Project ID	Project Type	Project	Project Cost	VMT Reduced	\$/VMT
1	Bike	Blackstone Bike Lane	\$7,980,000	2,219	\$3,596
2	Bike	Belmont Avenue Bike Lane & Road Diet	\$605,000	2,003	\$302
3	Transit	Shaw Avenue Express Service	\$25,000,000	654	\$38,226
4	Transit	Veteran's Boulevard Service Expansion	\$2,500,000	205	\$12,195
5	Transit	Peach Avenue Line Extension	\$1,500,000	684	\$2,193
6	Land Use	Affordable Housing	\$38,000,000	764	\$49,738
7	TDM	Carpool Program	\$70,940	70	\$1,014
8	TDM	Vanpool Program	\$288,480	399	\$723
Projects Tested that Increase Regional VMT					
-	Bike	Clinton Avenue Bike Lane & Road Diet	\$1,210,000	Increase	N/A
-	Bike	Maple Road Diet	\$755,000	Increase	N/A
-	Transit	Clovis Avenue Service Expansion	\$4,000,000	Increase	N/A

Regional VMT

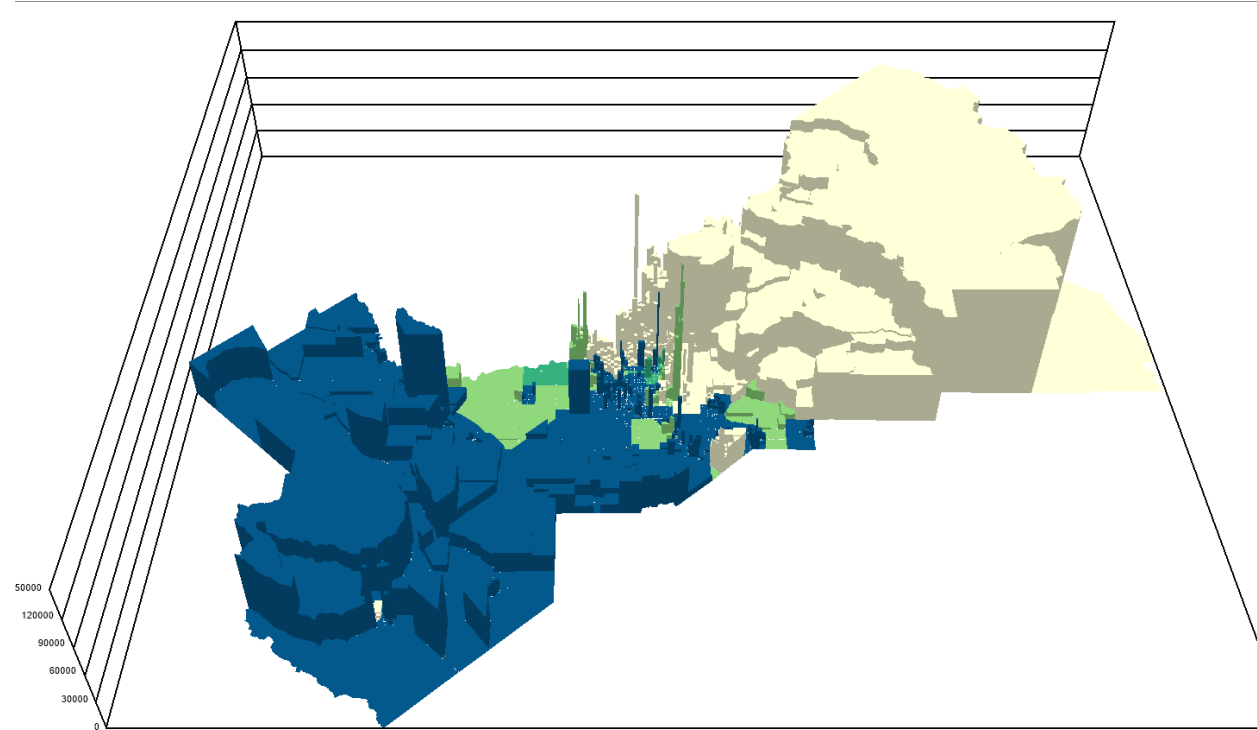
Mitigation Program Study

Case Studies – Project Testing

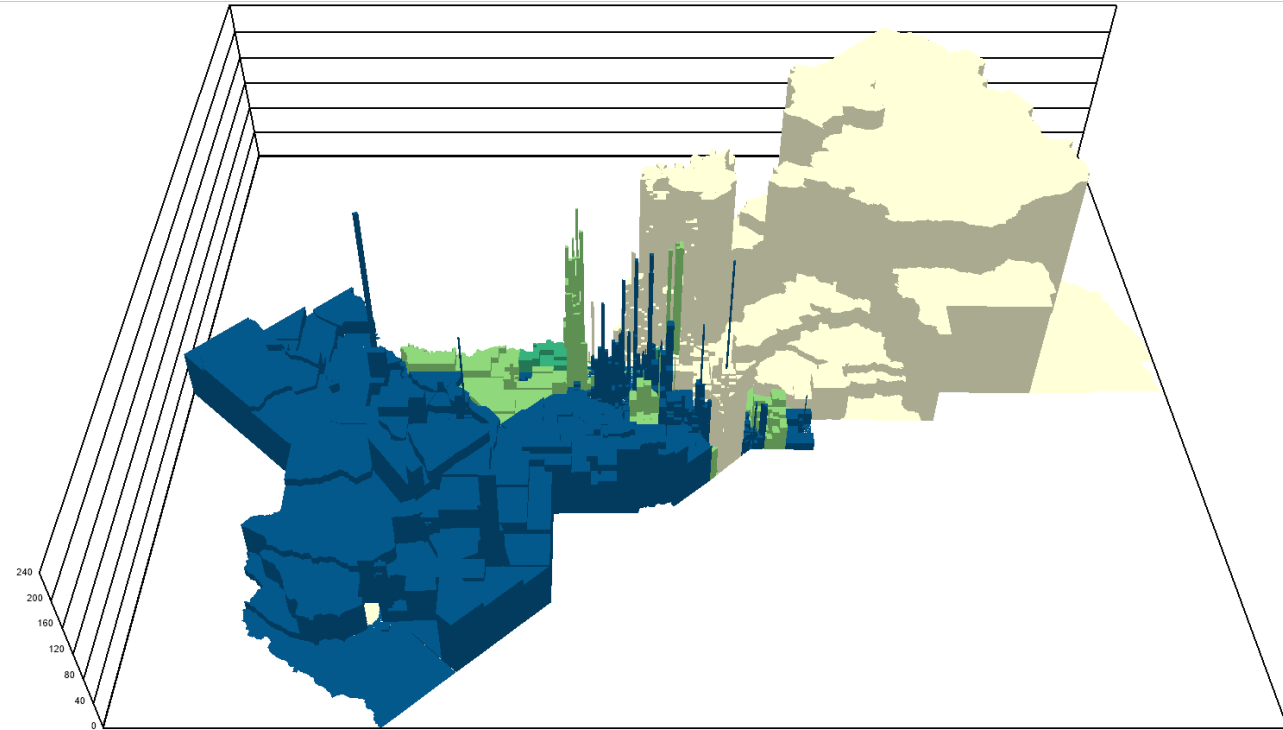
Example Projects		ROI	Comments
	Pedestrian	-	Often too costly with minimal VMT reduction (short trip lengths)
	Bike	+	Need to remove recreational trips. Multi-use/Class IV tend to be overly expensive but less costly improvements (paint) generally show promise
	Transit	+/-	Often good VMT reduction, how high costs of improvements and operating costs can make transit less feasible
	Road Diet	+/-	Works best on larger facilities or on multiple nearby facilities, otherwise it can result in route diversion, often increasing VMT
	ITS/ TSM	-	Difficult to quantify, generally minimal impact, better for GHG
	Mobility Hub	+	Can provide a good ROI by serving to connect modes systems that already exist
	Affordable Housing	-	Depends on definition of additionality. Developments with a large number of units have better ROI
	Vanpool/Carpool	+	Shows high promise and cost effective
	Park-and-Ride	+/-	Very dependent on unique local circumstances. Only limited information on efficacy available

Environmental Justice

Residential



Employment



Findings and Next Steps

- Program is feasible
- VMT Banking would be the most appropriate initial program
 - *Does not exclude applicant from doing their own project with local jurisdiction*
 - *Over time other program exchange variations could be introduced*
 - *Impact fee could be complicated in the context of other programs*
 - *Support to coordinate and or/integration with local VMT Mitigation Programs*
- Study established methods for evaluating VMT mitigation
- Project to implement a VMT Bank
 - *Select specific VMT projects*
 - *Finalize administration format*
 - *Define pilot and/or implement program*



Questions

