



# 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

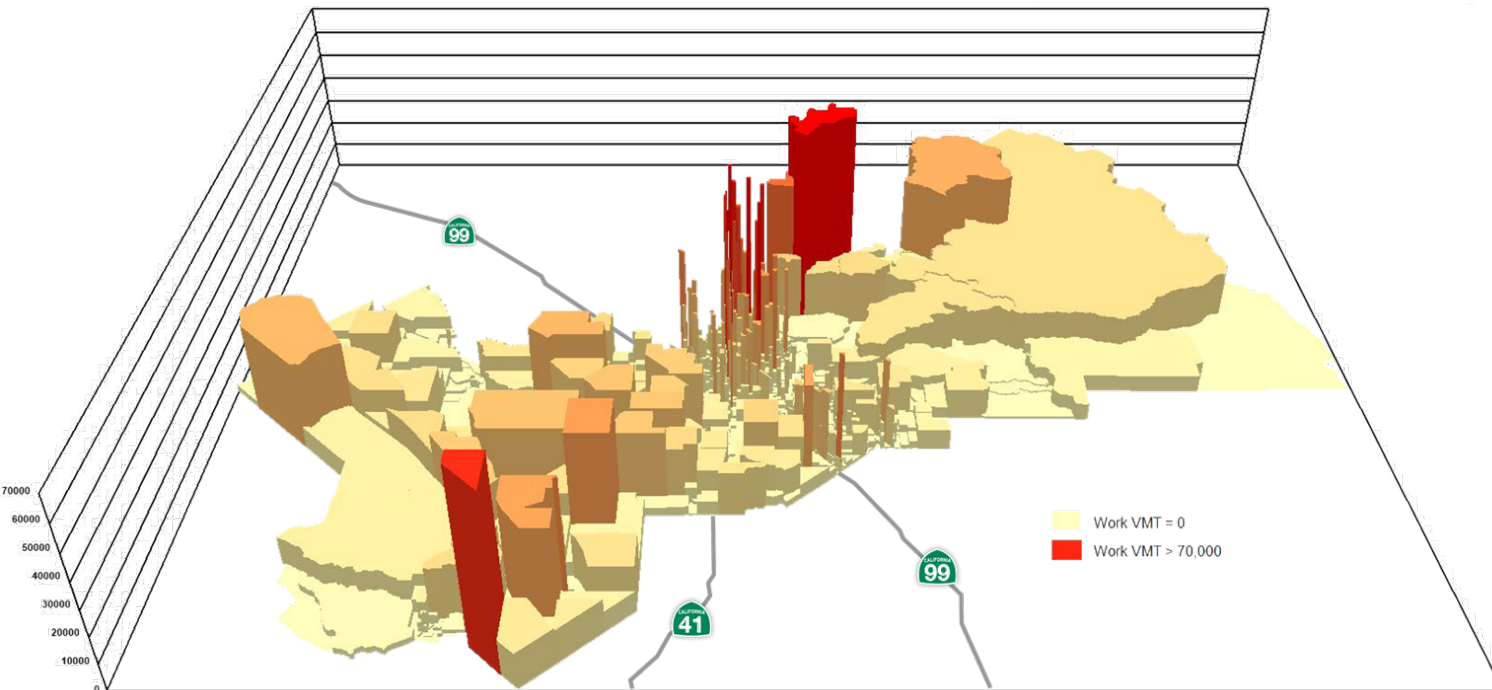
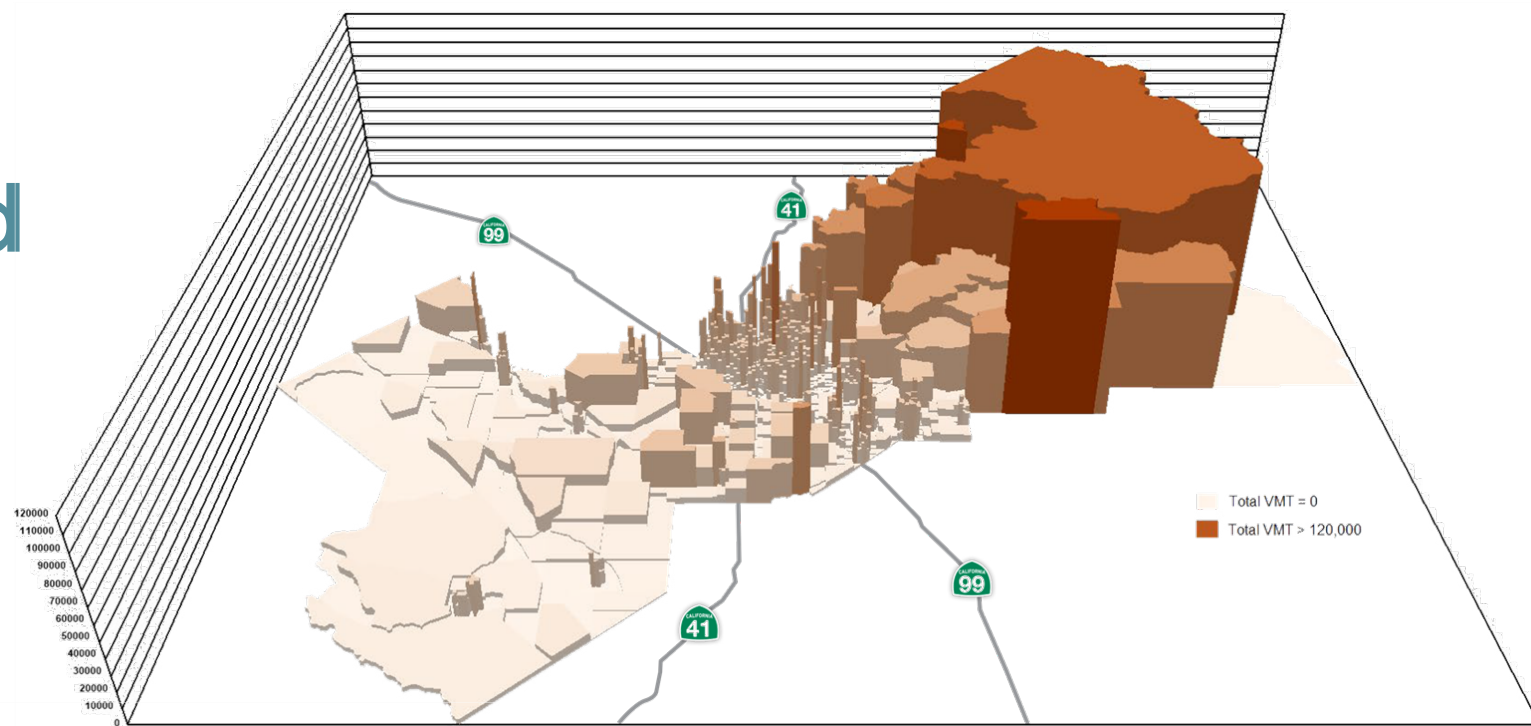
30 Total Members

### 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



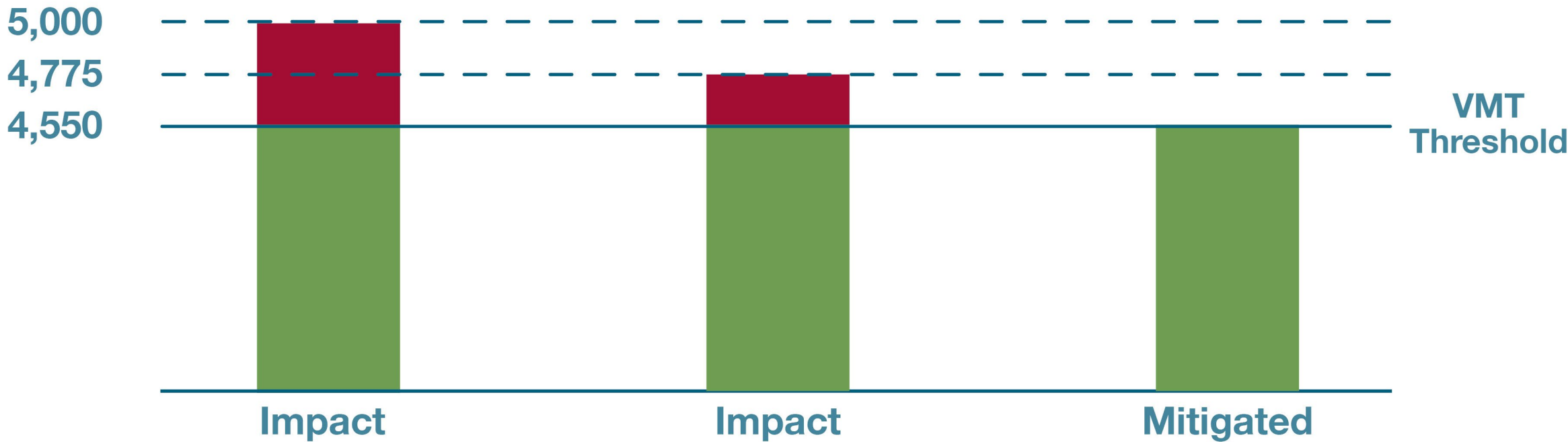
2035 Daily VMT Summary for Anticipated Growth	Totals (13% Threshold)
Households under Threshold	41,257
Households over Threshold	39,163
Employment under Threshold	26,335
Employment over Threshold	15,500

# Program Analysis

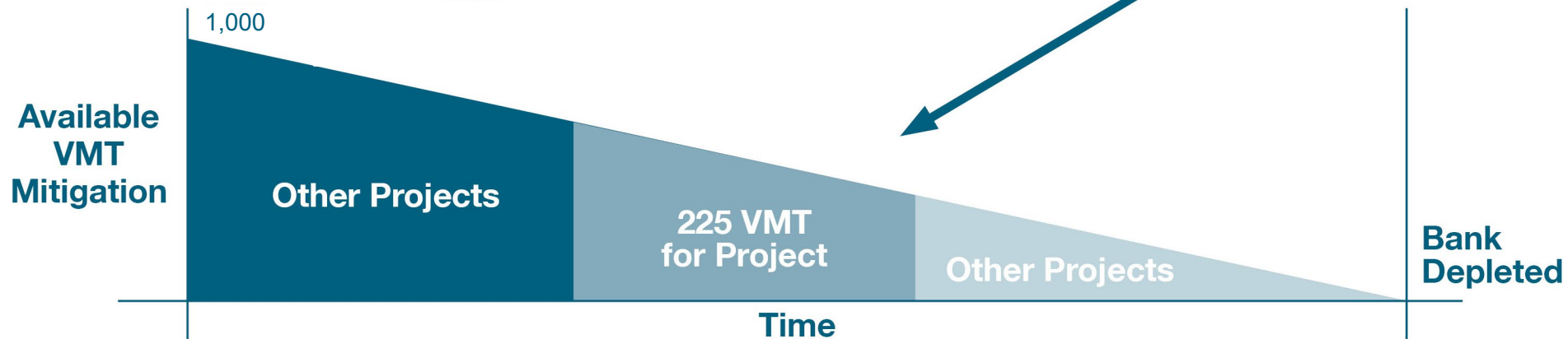
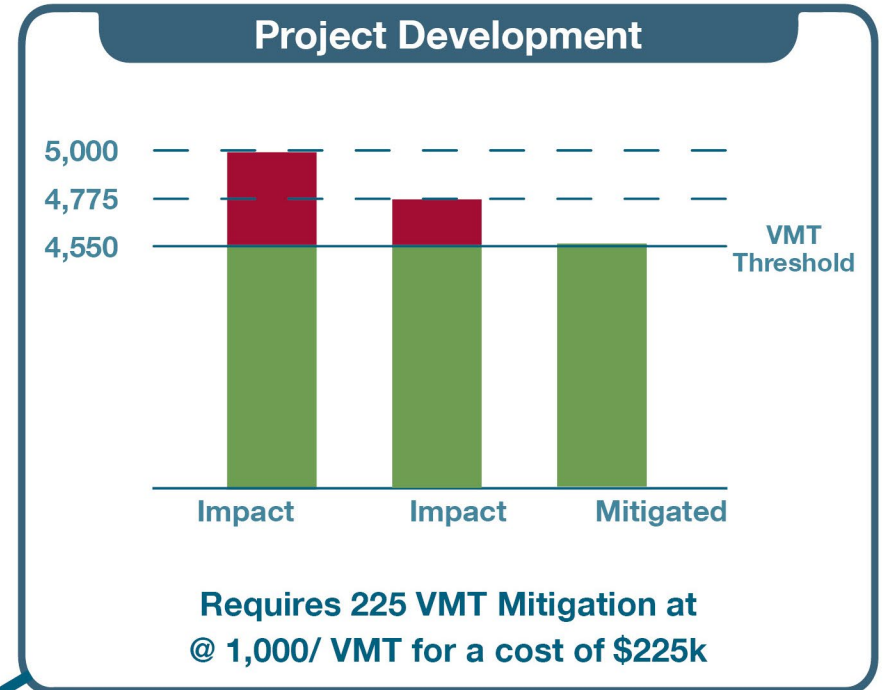
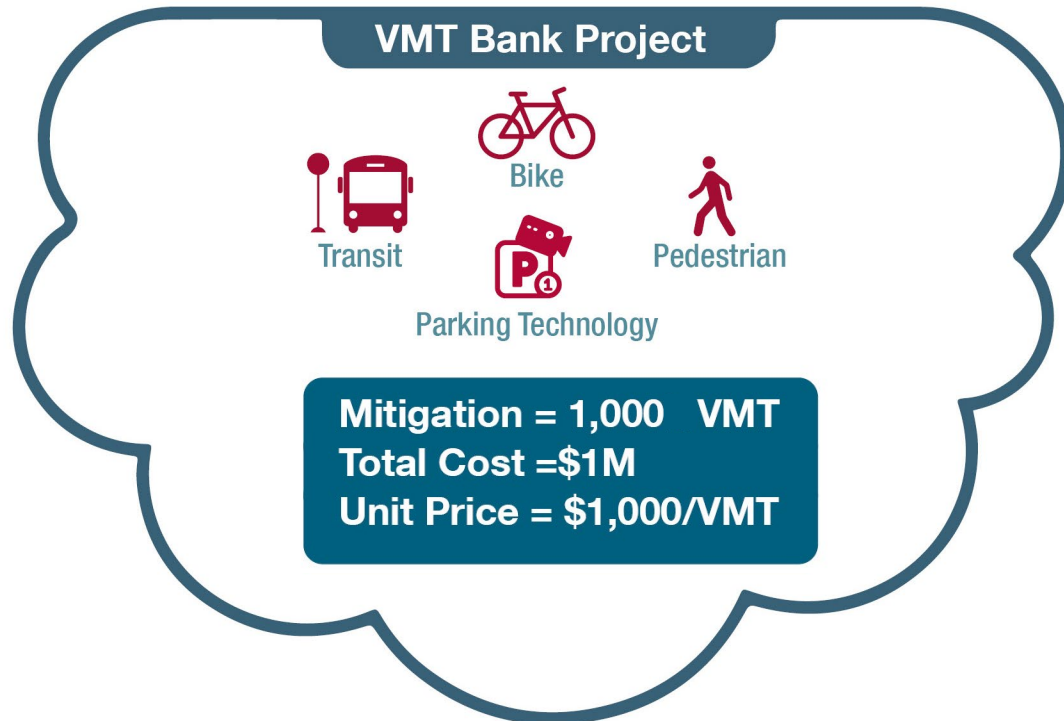
		VMT Bank	VMT Bank Plus	VMT Exchange	VMT Bank with Exchange	VMT Impact Fee
						
	Legal	●	●	●	●	●
	Effective	●	●	●	●	●
	Geography	●	●	●	●	●
	Administration	●	●	●	●	●
	Equitable	●	●	●	●	●
	Alignment	●	●	●	●	●

● 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
<b>Projects Tested that Increase Regional VMT</b>					
-	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

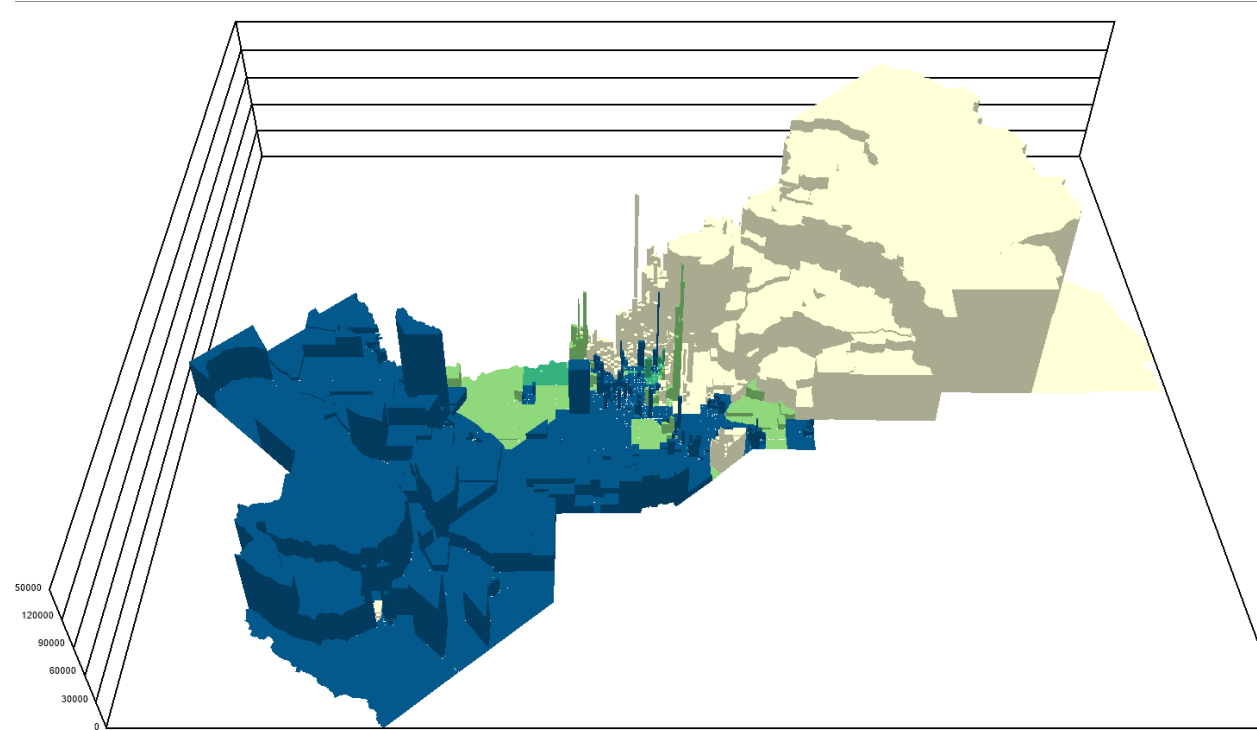
Mitigation Program Study

## Case Studies – Project Testing

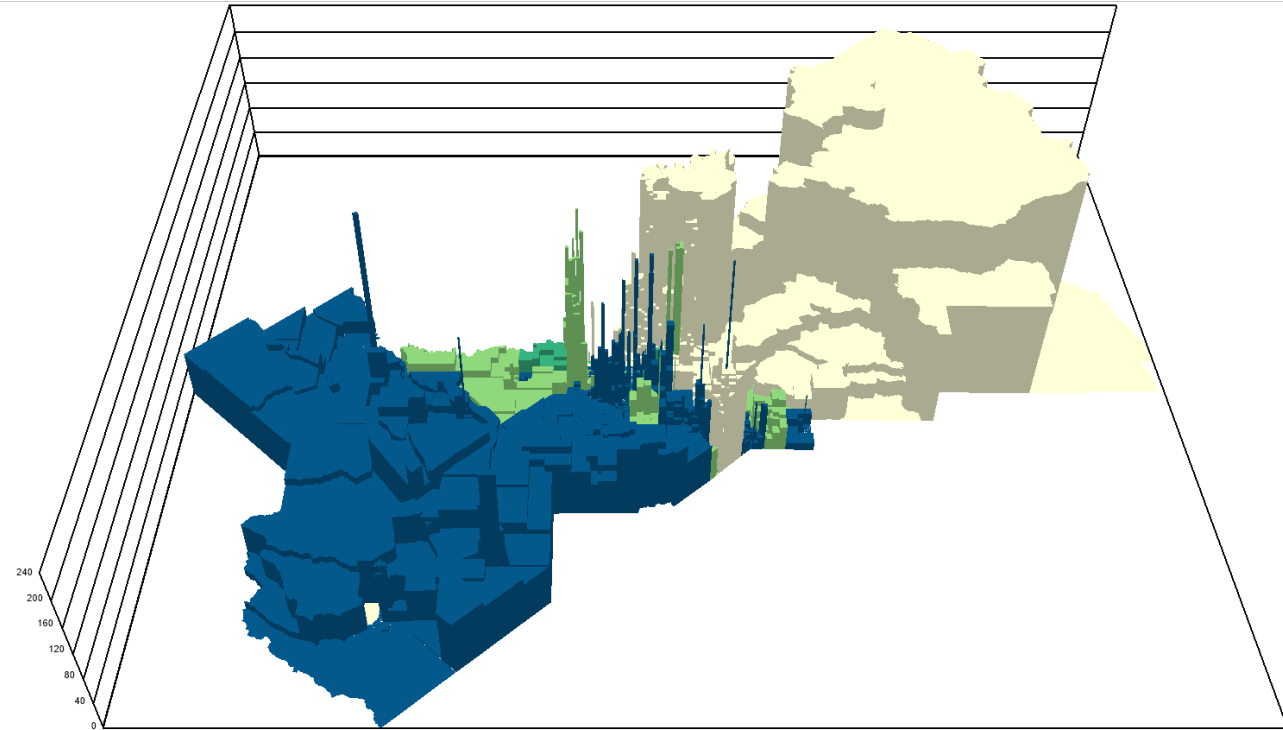
Example Projects		ROI	Comments
	Pedestrian	-	Often too costly with minimal VMT reduction (short trip lengths)
	Bike	+	Need to remove recreational trips. Multi-use/Class IV tend to be overly expensive but less costly improvements (paint) generally show promise
	Transit	+/-	Often good VMT reduction, how 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

