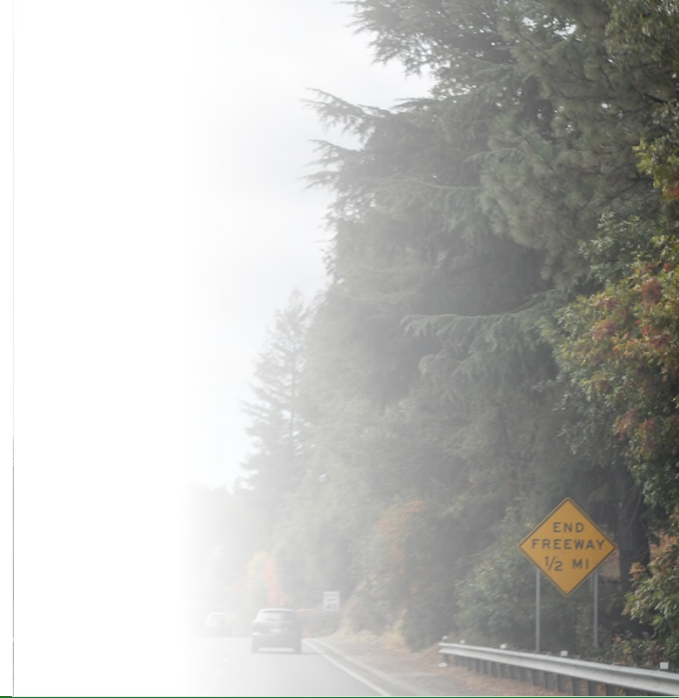




US 50 | **CORRIDOR
ACTION PLAN**



El Dorado County Transportation Commission

June 2, 2022

- **Study Purpose and Recap**
- **US 50 Trip to Green**
- **US 50 Corridor System User Traveler Analysis**
- **Financing Investment Strategy Overview**
- **Next Steps**





Project Development Team Roles and Expectations

- ▶ Collaborate on study processes, findings and recommendations
- ▶ Provide technical input and expertise
- ▶ Coordinate needs, responsibilities and actions within respective organizations
- ▶ Ensure we develop the most effective plan possible for the traveling public



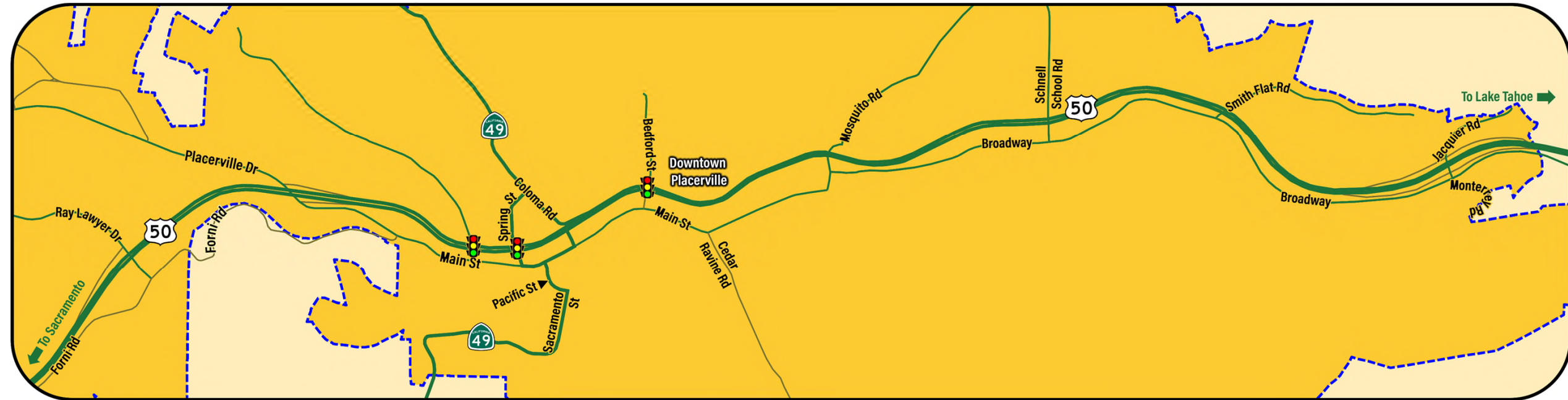
District

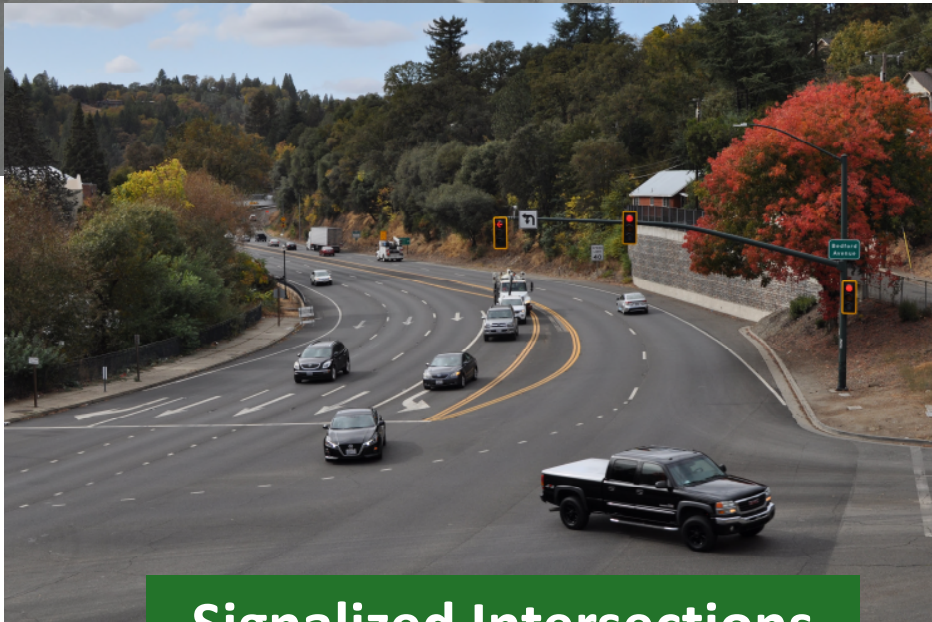
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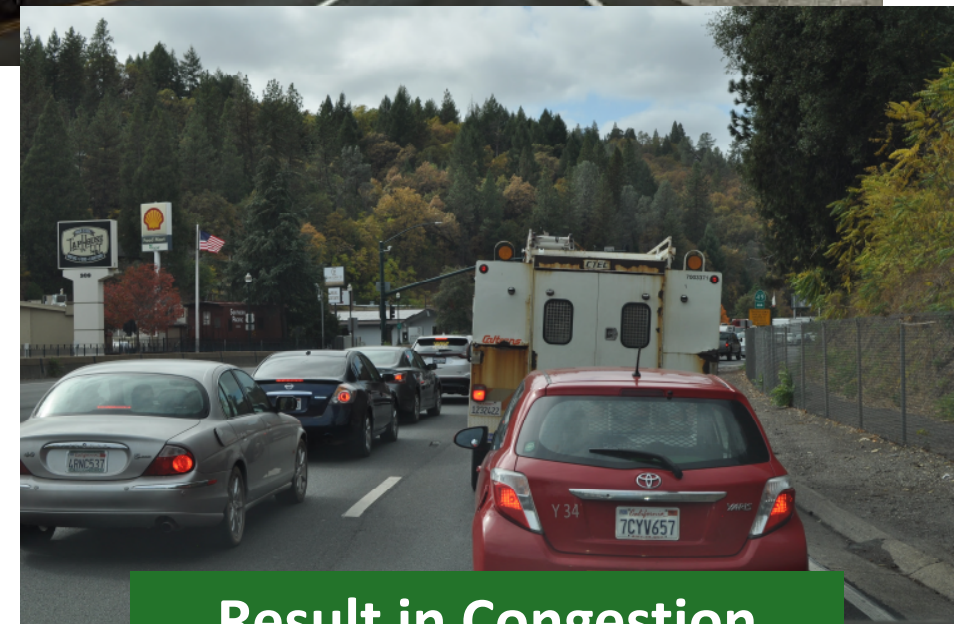


Study Area



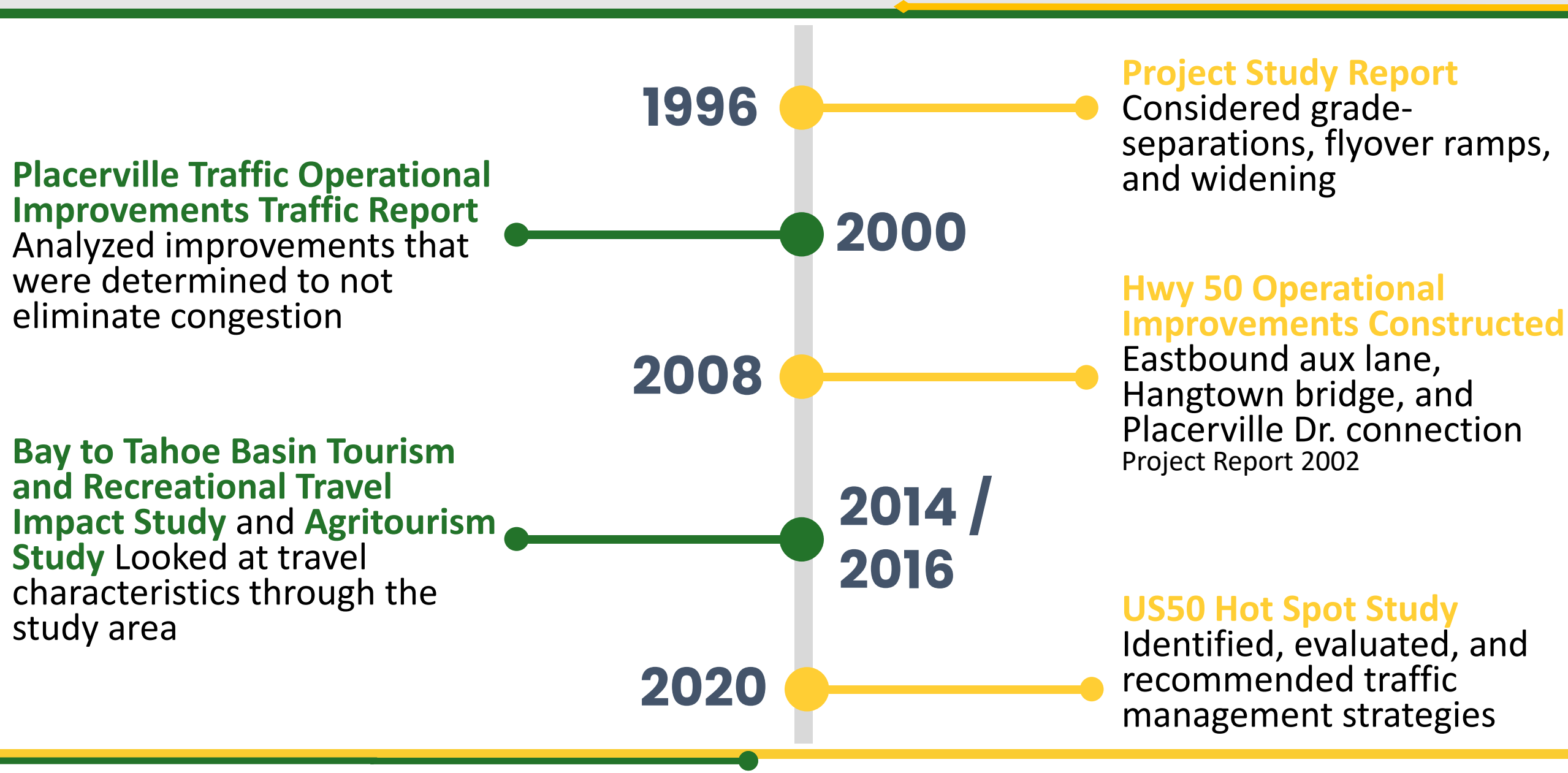


Signalized Intersections



Result in Congestion

Study Purpose



Schedule Overview and Key Tasks


Q1 21

Q4 22

 Access Control Plan for US 50 in Placerville

 System User Analysis

 Financing Strategies

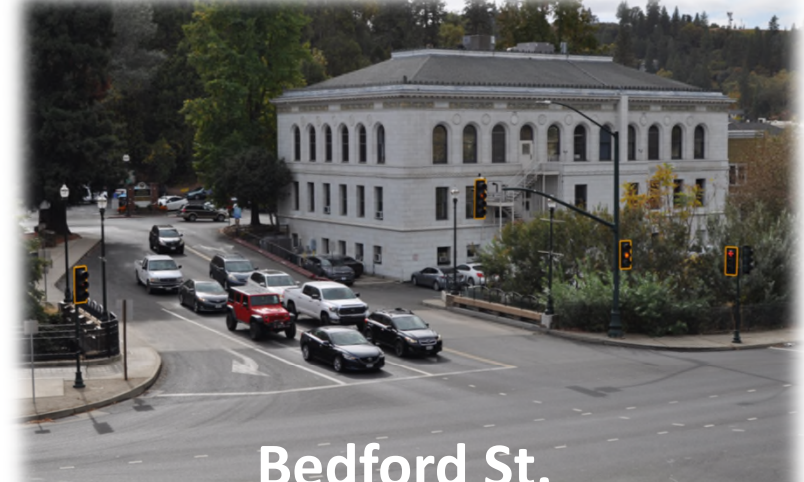
 Final Plan

 Public Outreach



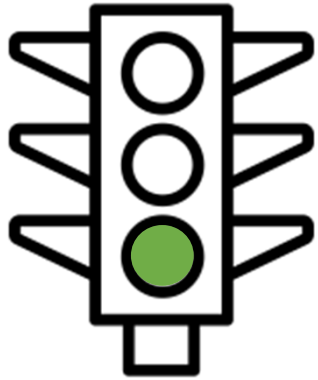


Trip to Green



Access Control Plan Proof of Concept

Action Plan Concept Overview



**Continuous Green for
US 50 Thru Traffic at
all 3 Signals in
Downtown Placerville**



**Prohibit Local
Movements Across
US 50 and Limit
Local Access**



**Reroute Local Access
and North/South
Movements Across
US 50**

2021 Trip to Green Development:

- Planned Trip to Green Implementation:
 - *Sept. 24-26, 2021: Friday 12am-Sunday 10pm*
 - *Oct. 15-17, 2021: Friday 12am-Sunday 10pm*
- Caldor Fire: August 14 – October 21
- Cancelled Trip to Green Deployment

2022 Trip to Green Deployment:

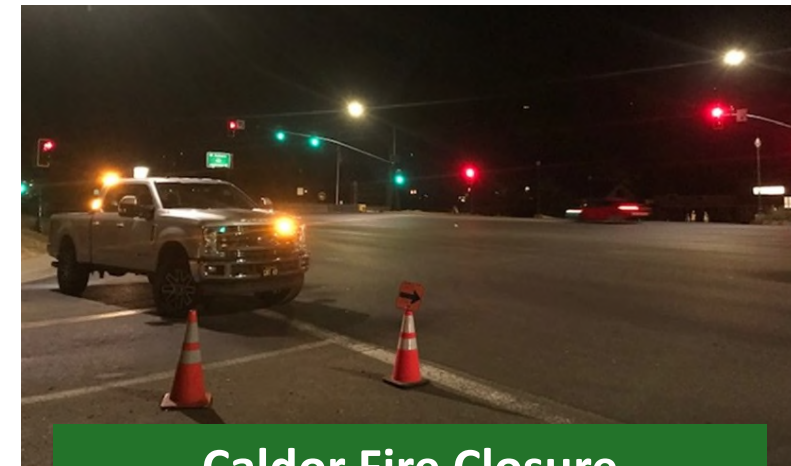
- Up to 3 Deployments Planned:
 - *August 6-7, 2022: Saturday 7am-Sunday 7pm*
 - *September 3-5, 2022: Saturday 7am-Monday 7pm*
 - *October 1-2, 2022: Saturday 7am-Sunday 7pm*



Lessons Learned from Caldor Fire

Continuous Green and Detours Implemented:

- Set-up takes about 2 hours, can consider daylight hour only versus 24-hours/day during weekends
- Revealed specific locations to intercept detoured traffic
- Ensure plenty of signage for no lefts off US 50
- Close left turns from US 50 first, then close the side streets
- Each intersection does need to be staffed. Experienced a lot of public interactions.
- Bike and pedestrian activity higher than expected
- Identified additional CMS locations



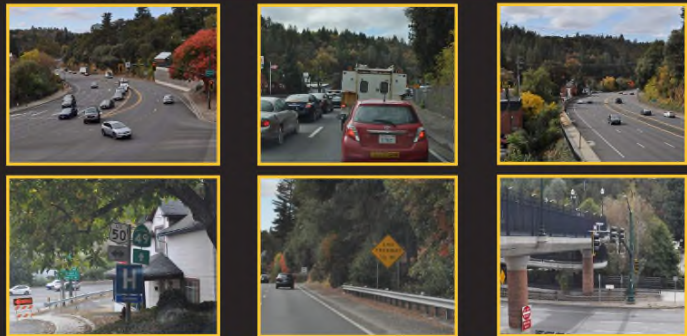
Caldor Fire Closure

DRAFT FINAL REPORT
US 50 ACCESS CONTROL ACTION PLAN
AND PROOF OF CONCEPT

January 13, 2022



US 50 CORRIDOR
ACTION PLAN



Prepared For



Prepared By

WOOD RODGERS
ESTABLISHING RELATIONSHIPS ONE PROJECT AT A TIME
3301 C Street, Bldg. 100-B | Tel: 916.341.7760
Sacramento, CA 95816 | Fax: 916.341.7767

US 50 Access Control Action Plan and Proof of Concept Draft Report

- Documents the development of the Access Control Plan and Proof of Concept
- Includes risk matrix, proof of concept plan sheets, and documents coordination
- Also includes lessons learned from Caldor Fire

Trip to Green Grant Application

INFRA/Rural Grant Application

- Grant application submitted for long term trip to green infrastructure and PSR for future ultimate improvements
- Total grant request of \$12,240,000 (RURAL)
 - \$10,050,000 (INFRA)
 - \$16,750,000 (Total Project Cost)
- Submitted May 23, 2022
- Competitive grant process
- Future rounds of grant funding through this program are anticipated





System User Travel Analysis



Purpose and Methods:

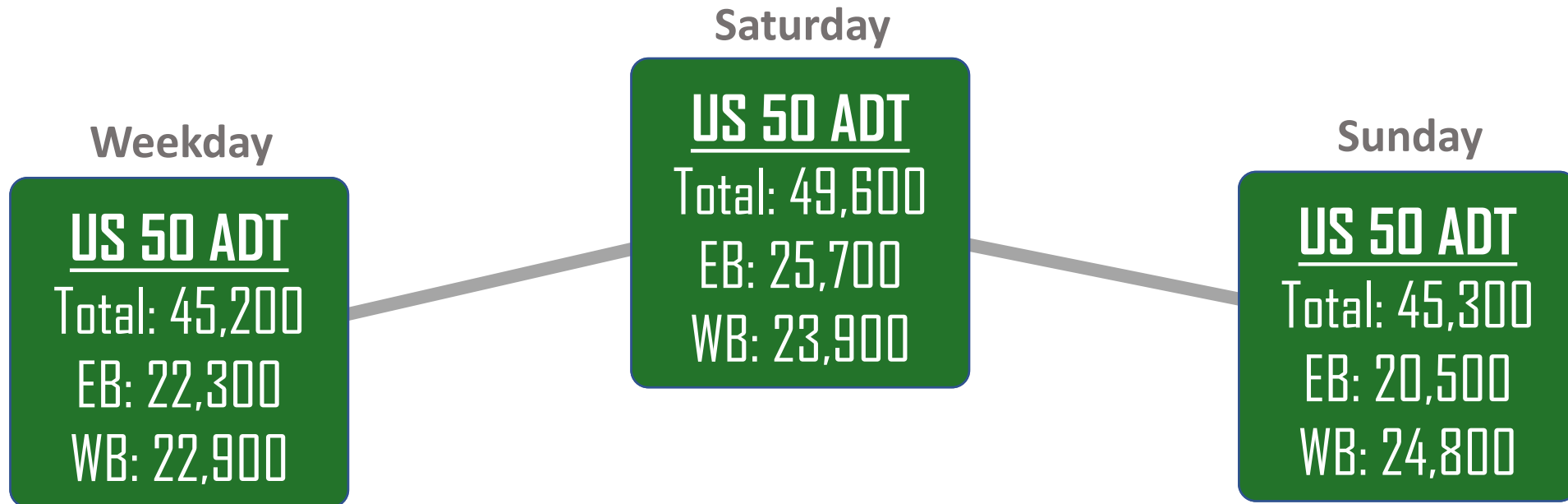
- Purpose: Develop an understanding of US 50 travel patterns including origin/destination, travel characteristics, and traveler information
- Method: Applied the Replica platform leveraging SACOG's license agreement to mine data obtained from location-based devices

Replicahq.com

PeMS data, Oct. 2019

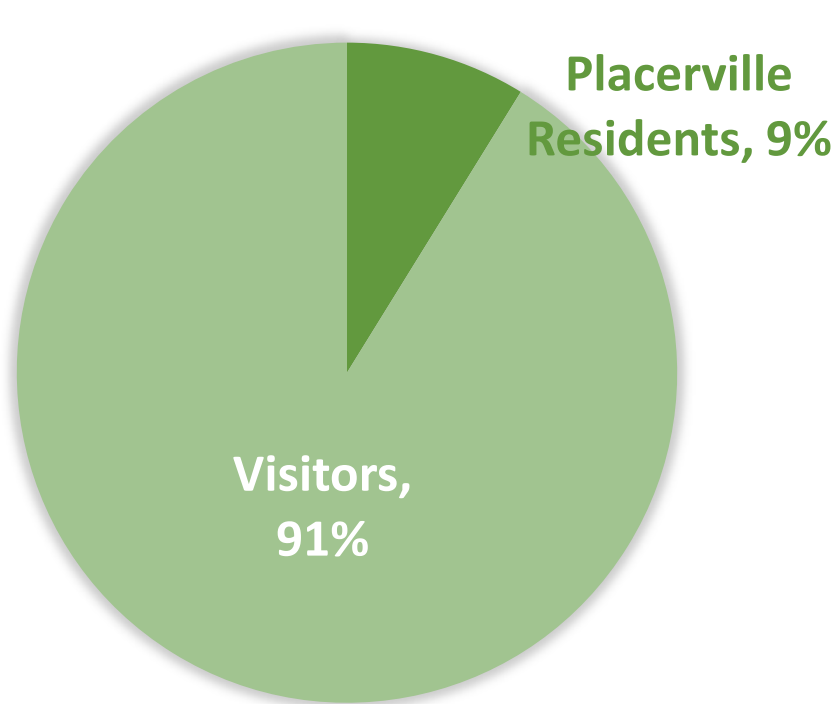
Average Daily Traffic

US 50 West of Placerville Drive

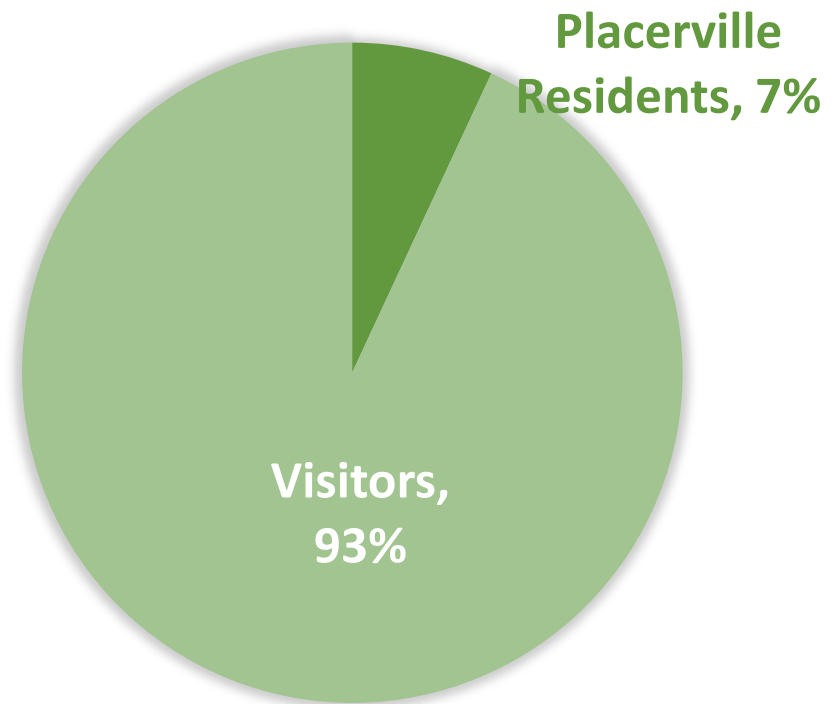


*Replica data, Sept.-Nov.
2019. Weekday as
average Thursday*

US 50 at Bedford Avenue

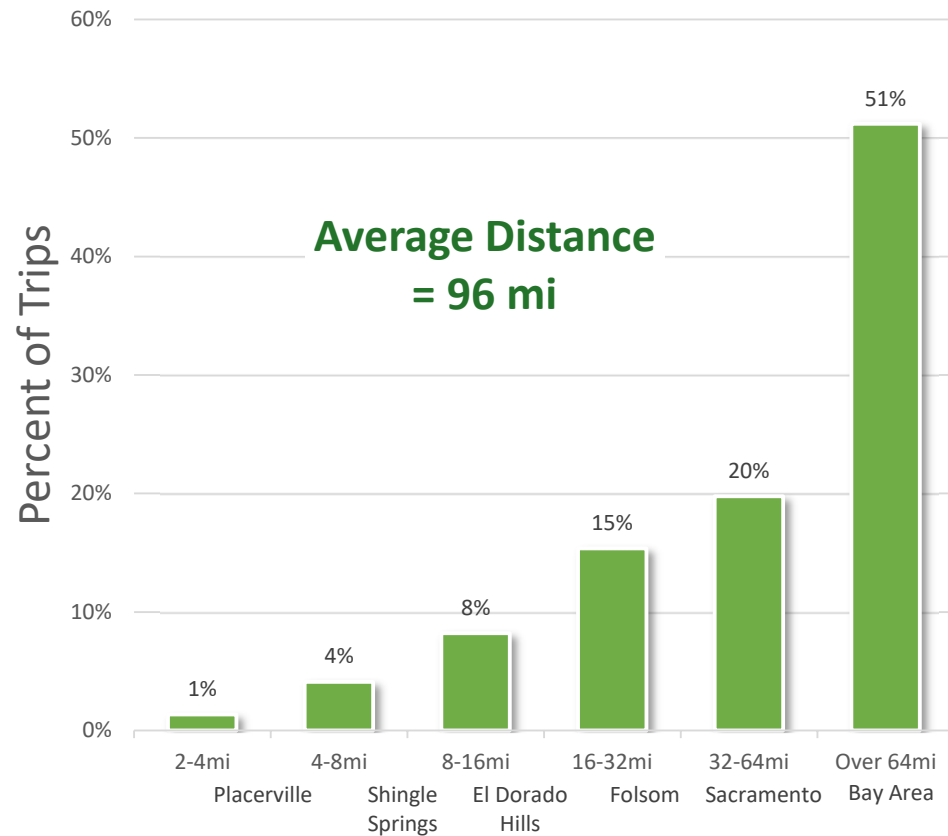


Weekday

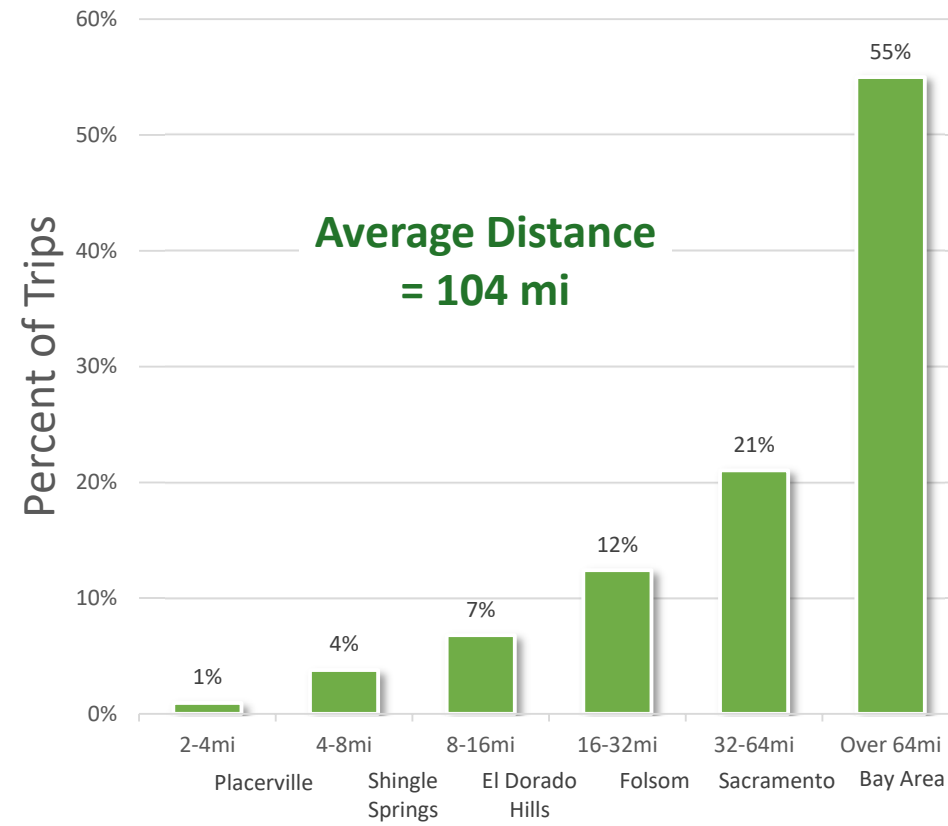


Saturday

US 50 at Bedford Avenue



Weekday



Saturday

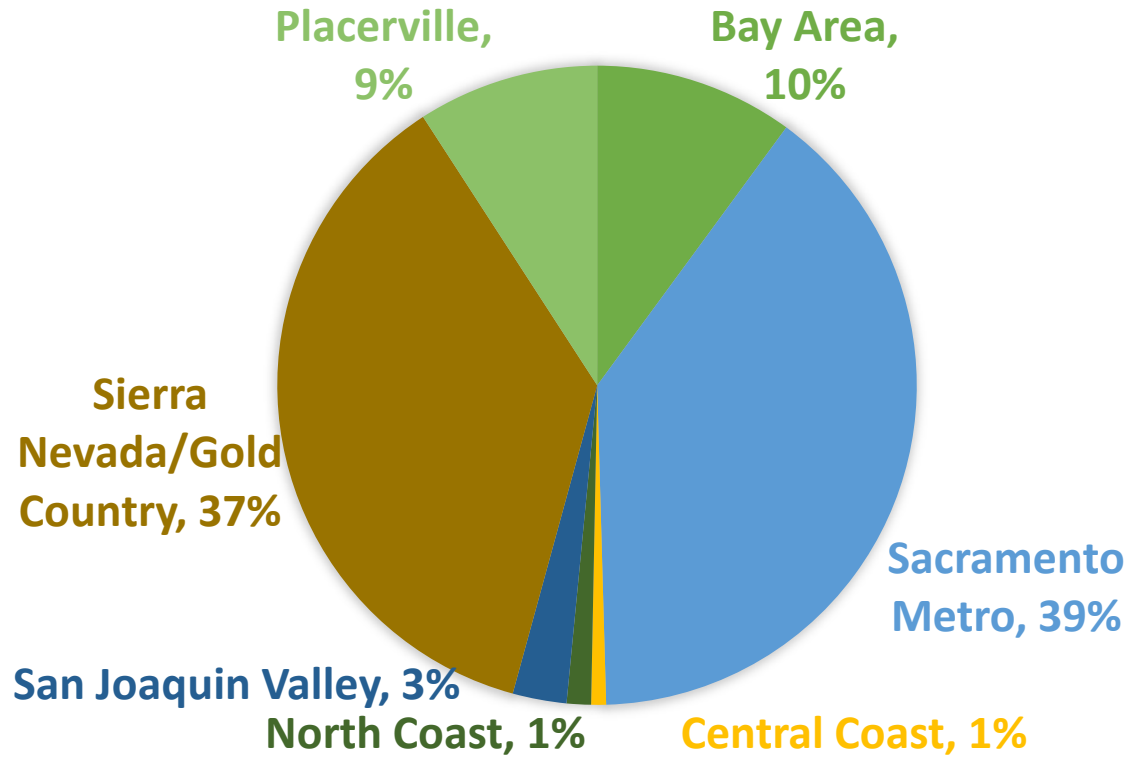
Summary Data:

76% Percent of vehicles on US 50 in Placerville on Saturdays that are traveling at least 32 miles.

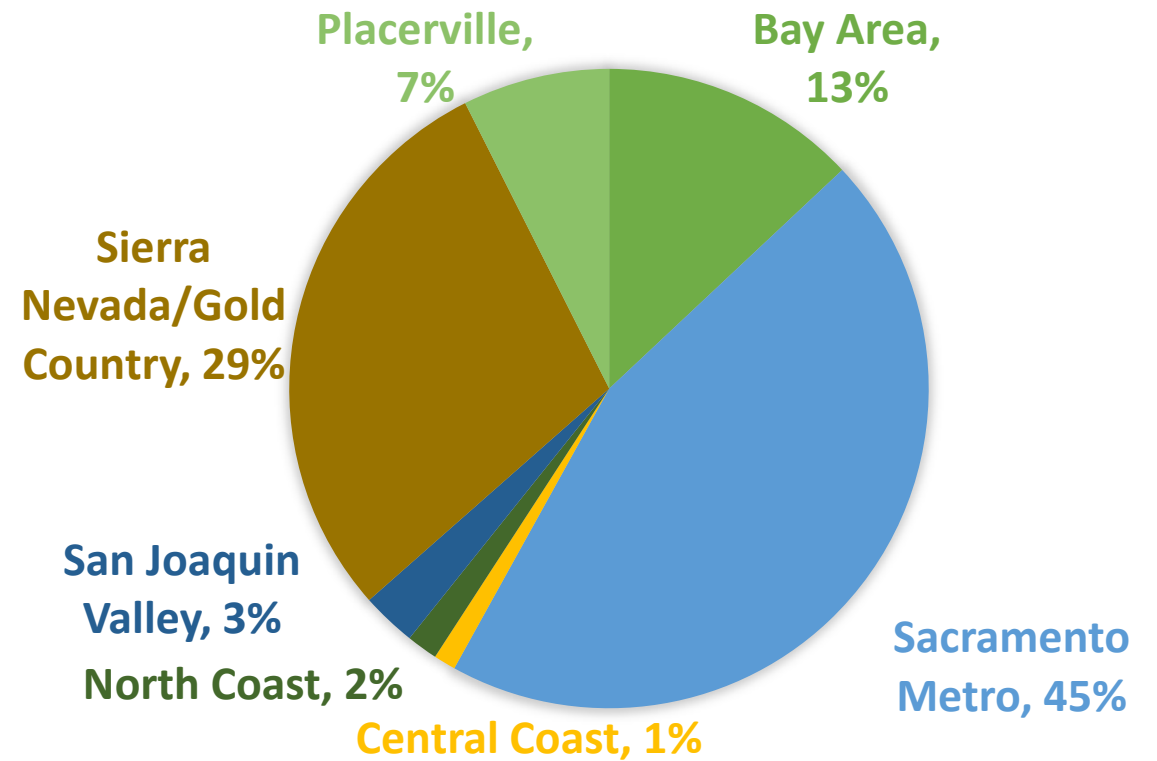
*This equates to approximately **38,000** long-distance vehicle trips; or **63,000** long-distance person trips.*

6x The 63,000 persons making long distance trips on US 50 during one Saturday is equal to nearly 6 times the population of Placerville.

Eastbound US 50 at Bedford Avenue

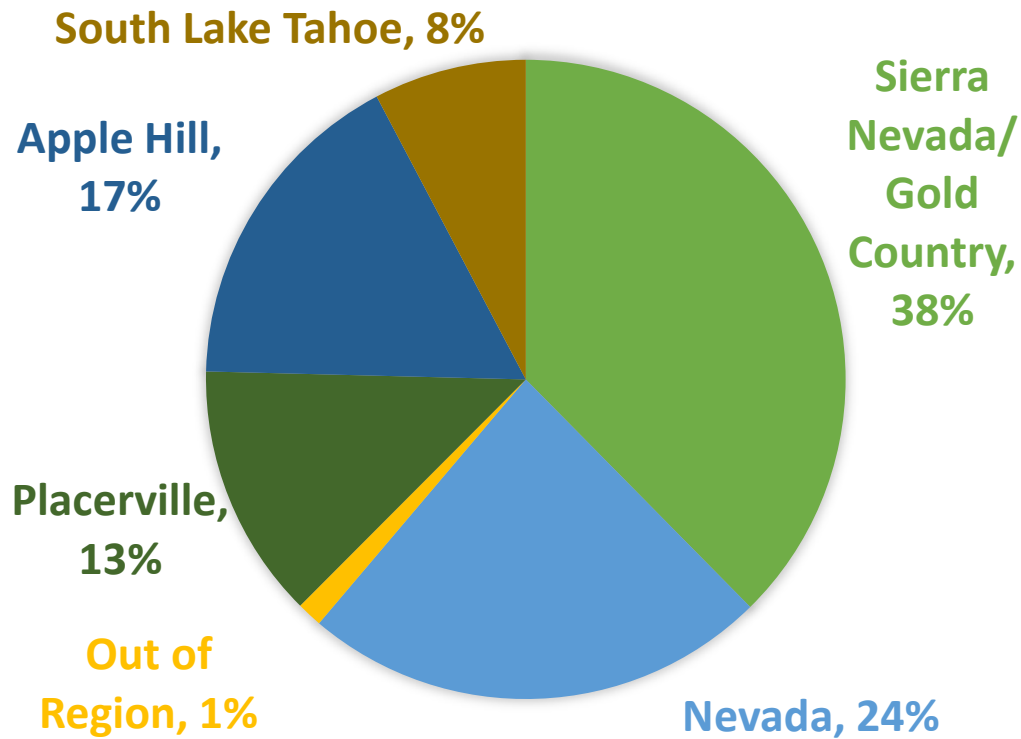


Weekday

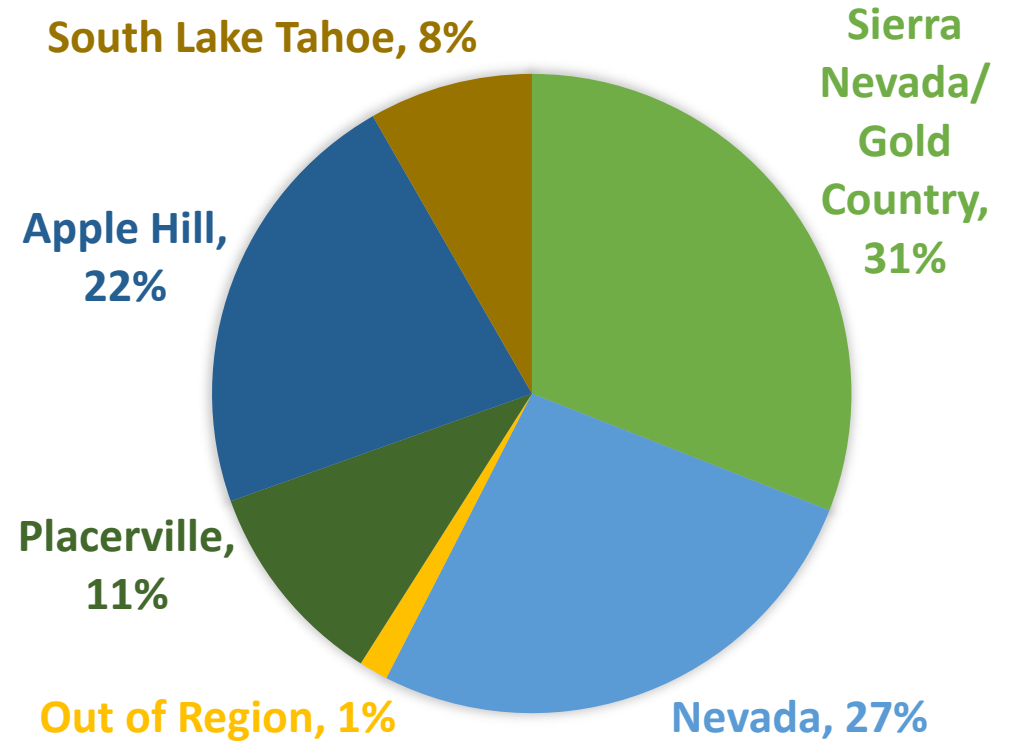


Saturday

Eastbound US 50 at Bedford Avenue (Fall)

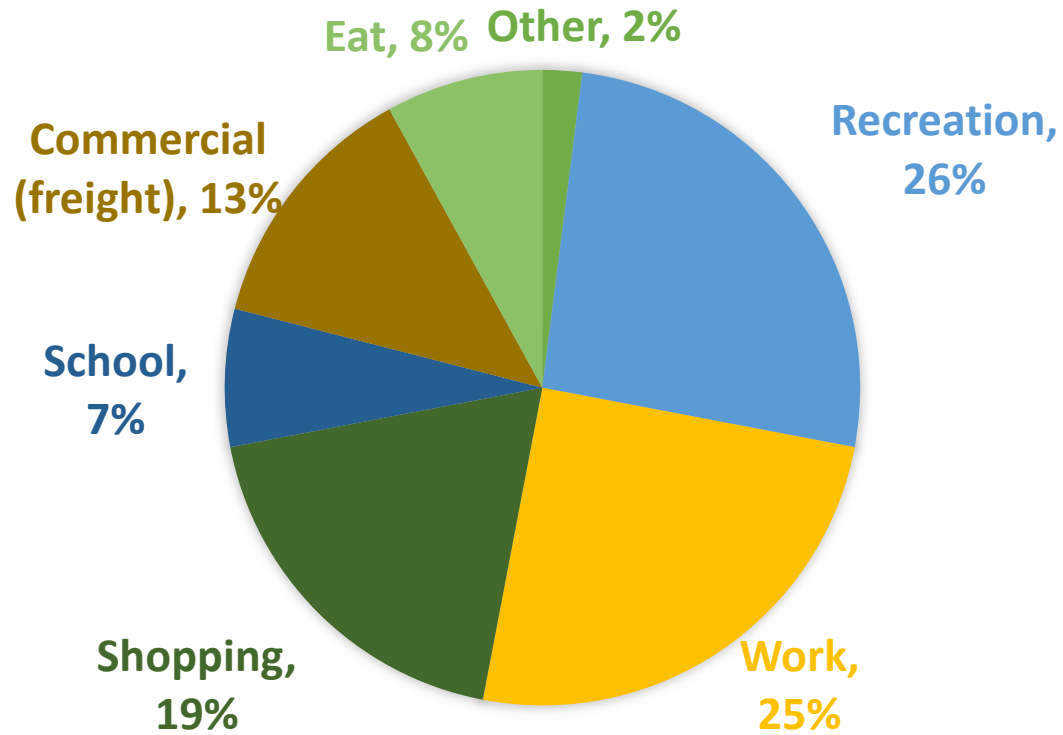


Weekday

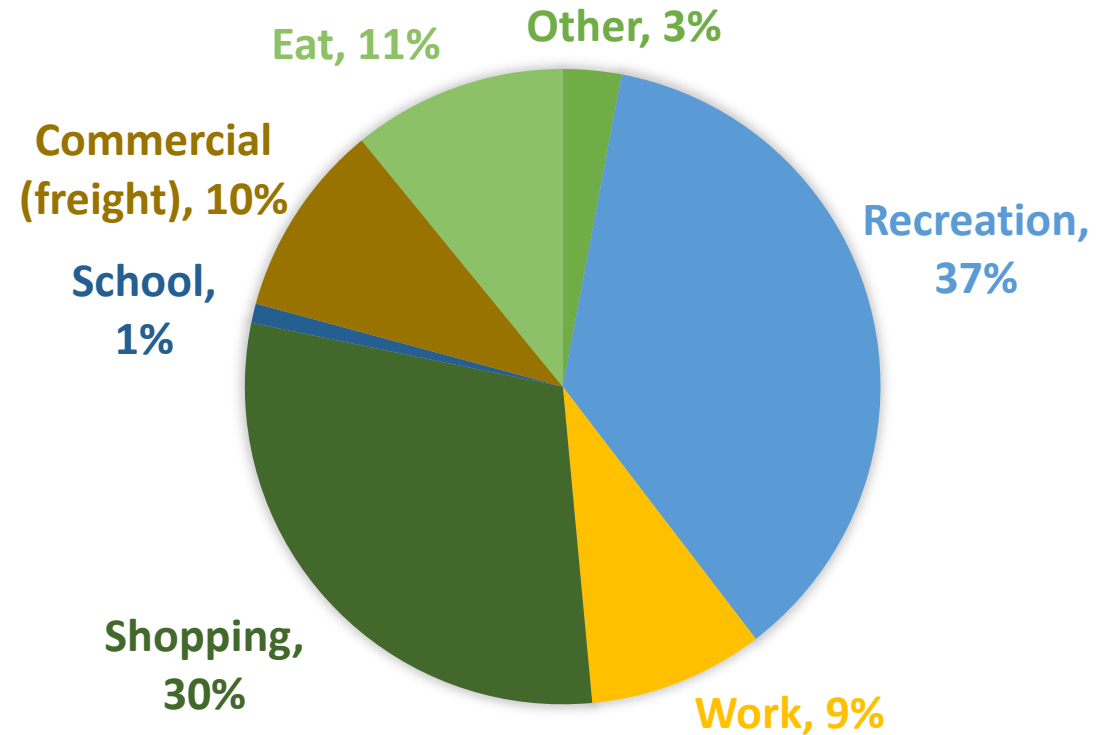


Saturday

US 50 at Bedford Avenue

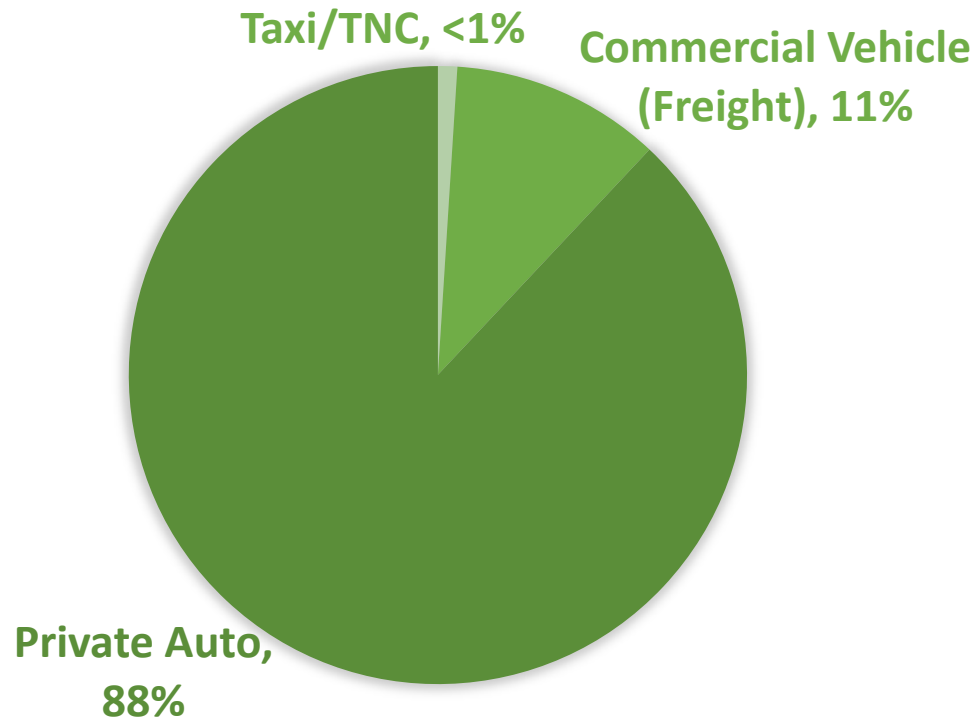


Weekday



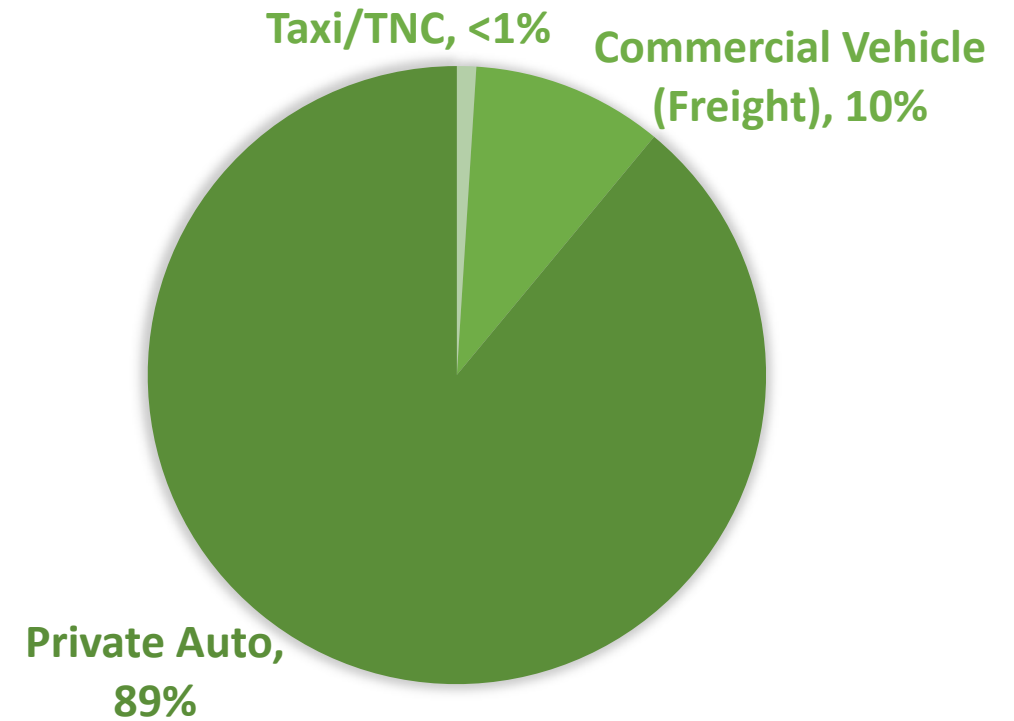
Saturday

Eastbound US 50 at Bedford Avenue



Private Auto Occupancy = **1.67** persons per vehicle

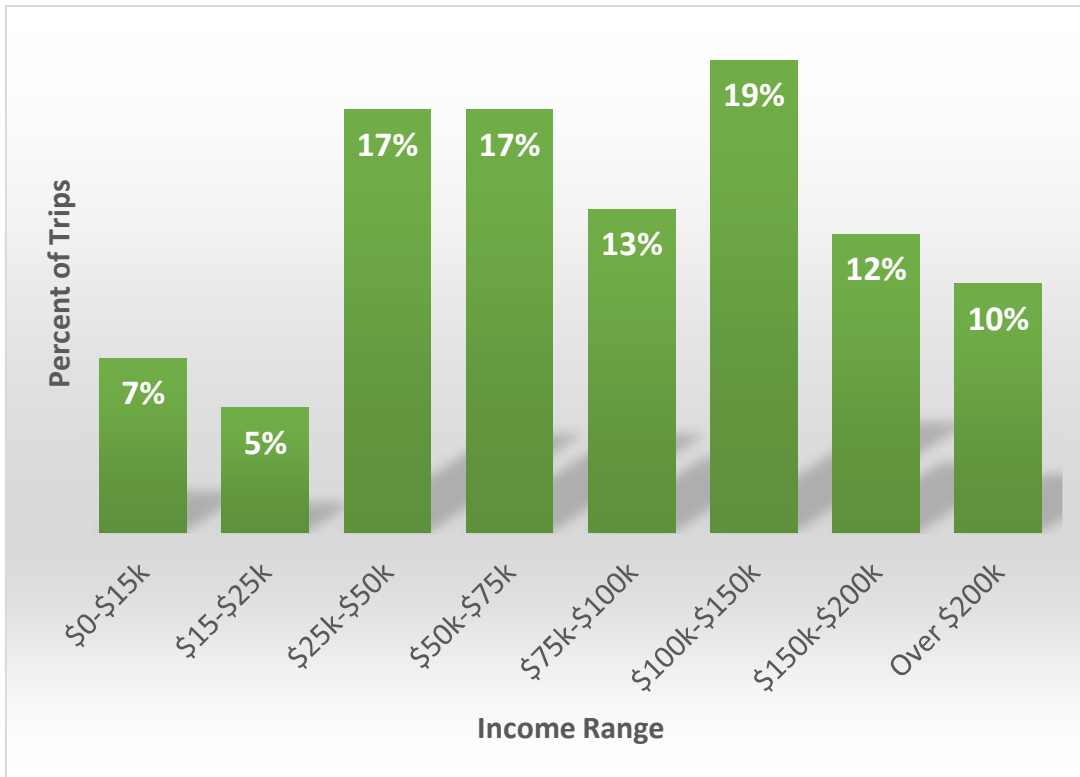
Weekday



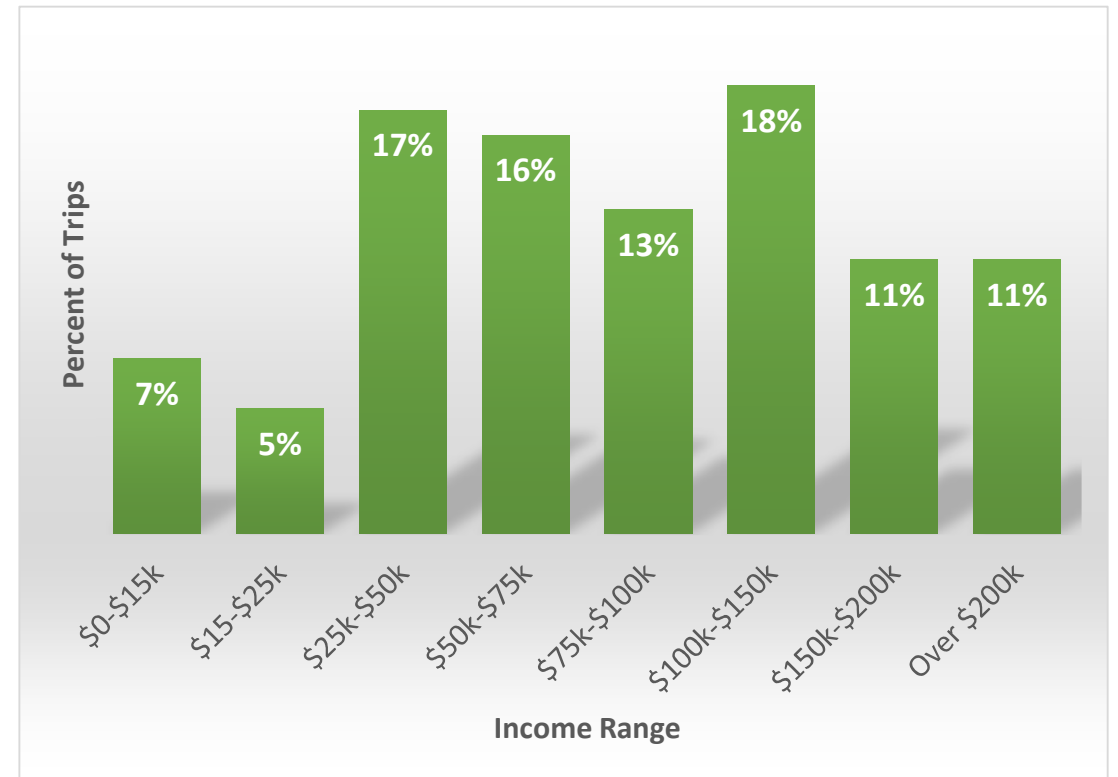
Private Auto Occupancy = **1.90** persons per vehicle

Saturday

US 50 at Bedford Avenue



Weekday



Saturday

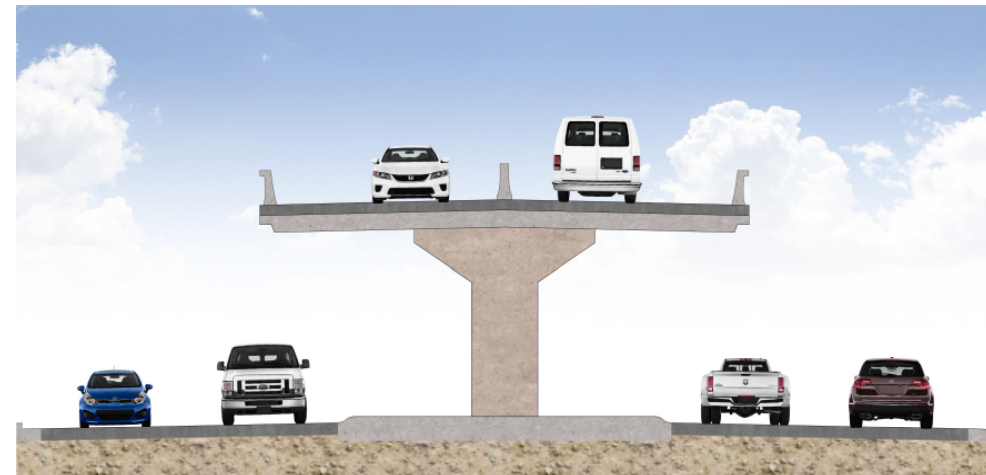


Financing and Investment Strategy

Financing and Investment Strategy

Purpose and Methods:

- Purpose: Develop a detailed description of financing and investment strategies for potential permanent solutions
- Method: Conduct a sketch-level toll feasibility analysis for a potential permanent concept, as well as considerations for tolling a Trip to Green condition



Toll Facility Development Overview

- How do we know how much money we can generate from tolling?



Traffic and Revenue Projection Process

- Can we generate enough money to make tolling worthwhile?



Feasibility Assessment

- If we can generate enough money, how do we finance it?



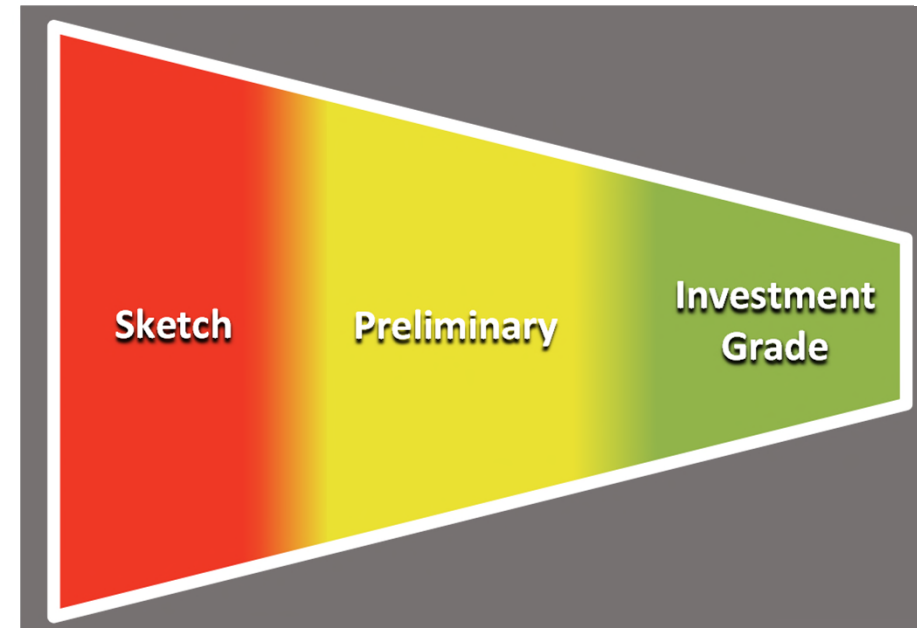
Project Financing

Types of Studies

- Sketch level
- Preliminary
- Investment Grade

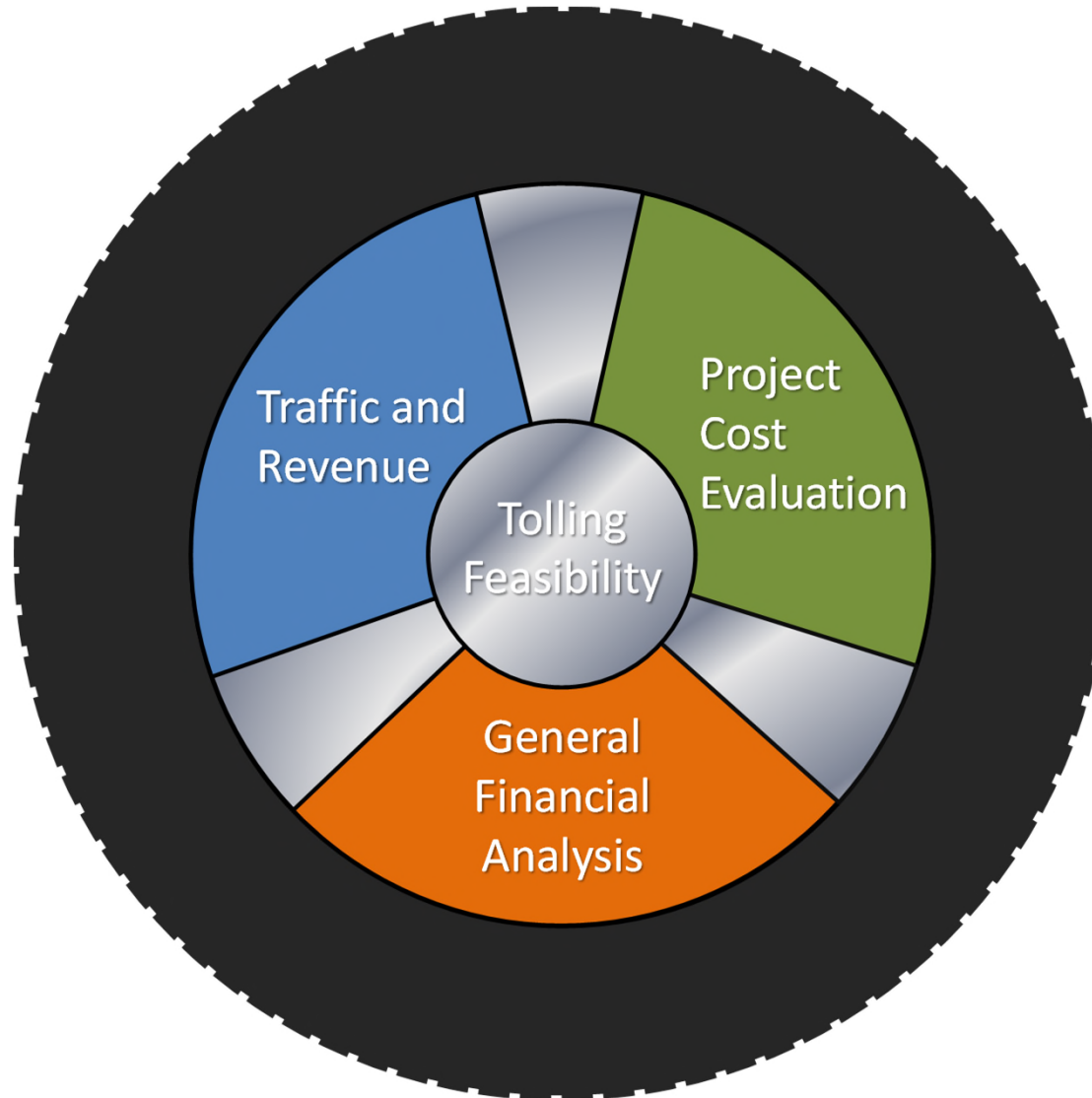
Key Elements

- Data collection
- Economic review
- Travel demand model
- Project assumptions



↑
We Are
Here

Elements of a Feasibility Study



Traffic and Revenue: Key Questions

- What is the overall travel demand in the corridor?
- How much will it grow in the future?
- What share of the demand can be expected to use the new facility?
- How much will users be willing to pay?



- ✓ Tolling has proven to be an effective funding source for new highway capacity as state and federal tax revenues diminish
 - *In many cases, however, tolling cannot support the entire cost of projects*
 - *Must be supplemented with alternative funding sources*
- ✓ Preliminary results suggest tolling would provide only limited funding
 - *Express lanes yield ~\$1.37-1.81 million/yr (\$0.50-\$1.75 rate)*
 - *Trip to Green yields ~\$850k-\$2.5 million/yr (\$1-\$3 rate)*
 - *Assume 12 weekends per year, tolled*
- ✓ *Need to further advance feasibility results to inform next steps*



Q1 21

Q4 22

 Access Control Plan for US 50 in Placerville

 System User Analysis

 Financing Strategies

 Final Plan

 Public Outreach





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