

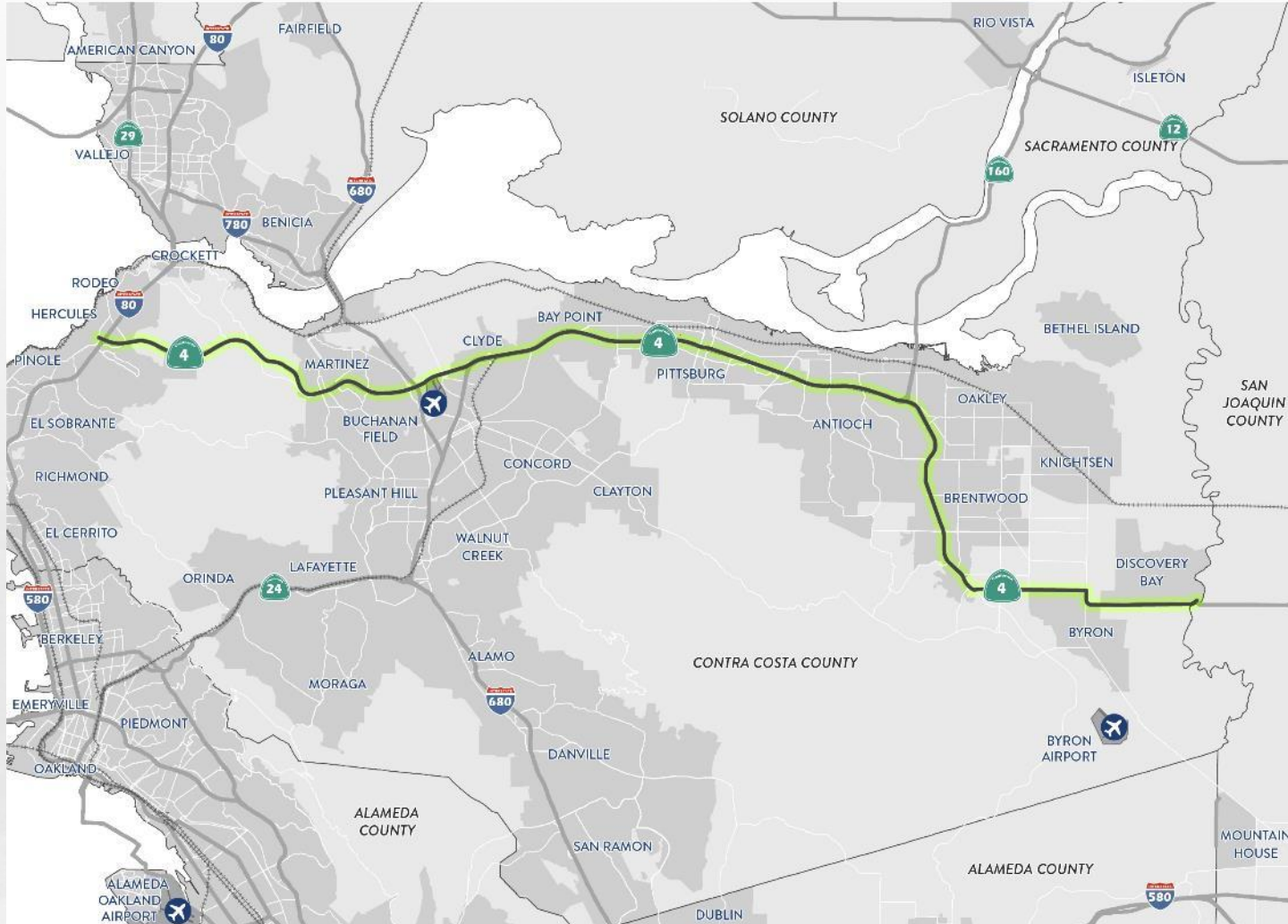
SR 4 Corridor Vision Study

Planning Committee Meeting

June 1, 2023

Project Overview

Create a long-term, sustainable, transportation vision to guide future investments.



Project Purpose:

Develop a Comprehensive Multimodal Corridor Plan (CMCP) for the SR 4 Corridor

- ▶ Scope Based on Caltrans CMCP Requirements
 - ▶ Automobile
 - ▶ Transit
 - ▶ Freight
 - ▶ Bicycle
 - ▶ Pedestrian
 - ▶ Emerging Technology

Study Elements

- Study Builds Upon Extensive Existing Efforts
- Document Existing Plans & Guidelines
- Perform Analysis of:
 - Corridor Safety
 - Freight System
 - Arterial Network Operations
 - Identify Emerging Technologies
- Establish Evaluation Criteria
- Primary and Secondary Screening – Select Vision Elements
- Document in SR 4 Corridor Vision
- **Next Steps** – Leverage adopted CMCP to pursue future funding opportunities



Project Structure

Group	Purpose	Membership	Meeting Schedule
Project Development Team (PDT)	<ul style="list-style-type: none"> ❖ Review all project deliverables and provide technical guidance 	<ul style="list-style-type: none"> ❖ CCTA ❖ Caltrans ❖ Consultant Team 	<ul style="list-style-type: none"> ❖ Monthly
Technical Advisory Committee (TAC)	<ul style="list-style-type: none"> ❖ Provide technical input on project list, goals, and evaluation criteria ❖ Identify constraints, opportunities, and public engagement opportunities 	<ul style="list-style-type: none"> ❖ Local Jurisdictions ❖ Regional Partners 	<ul style="list-style-type: none"> ❖ May 2023 (today) ❖ Summer 2023 (tentative) ❖ October 2023 (tentative)

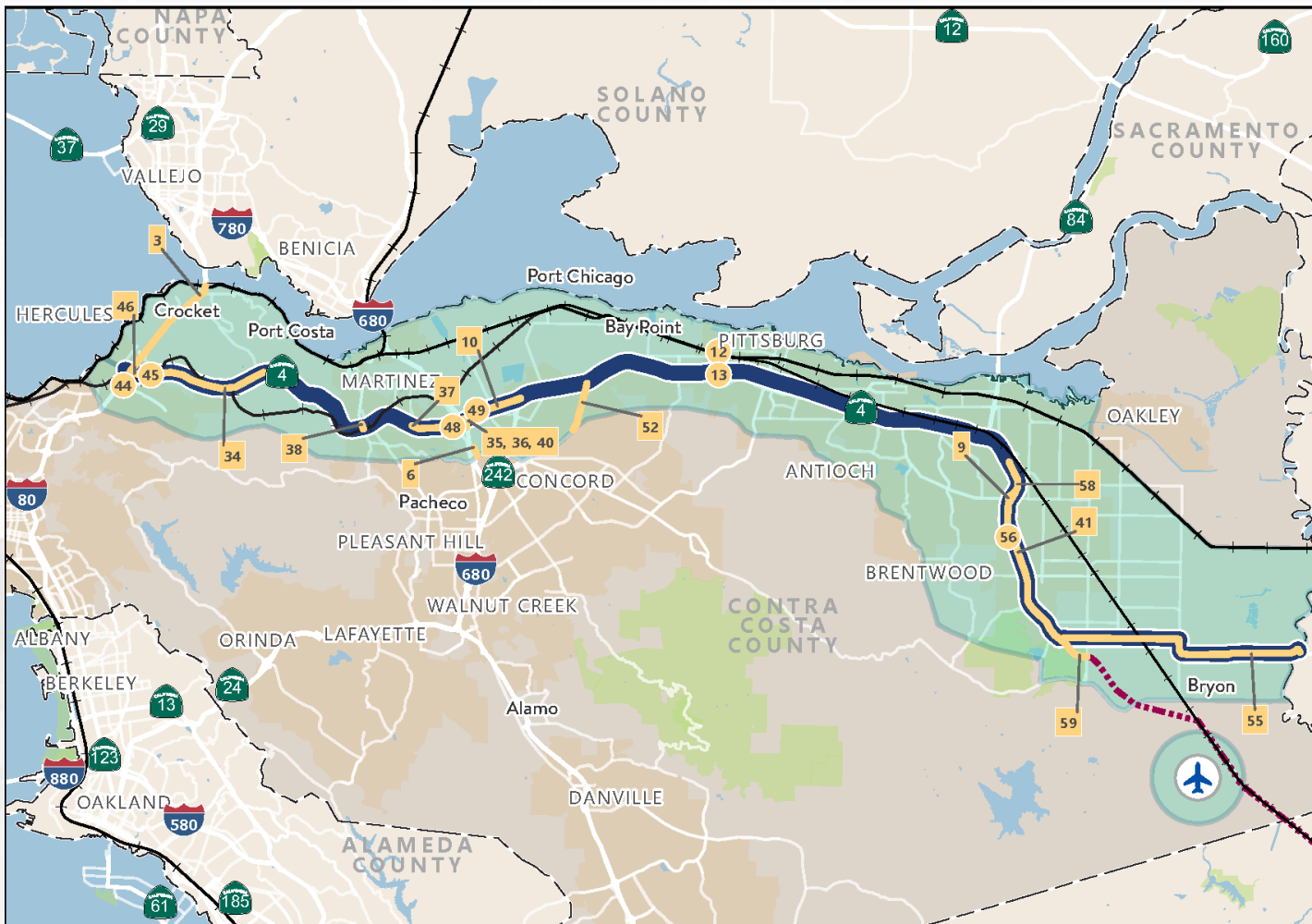
Draft Project Goals

- To define the long-term vision for the corridor
- Develop evaluation criteria for potential improvements within the corridor
- Project Objectives and Performance Measures are provided in the staff report

#	Goal	Weighting
1	Safety	20%
2	Mobility	20%
3	Economic Vitality	10%
4	Social Equity	20%
5	Efficient Land Use	10%
6	Efficiency & Technology	10%
7	Air Quality, Healthy, & Sustainability	10%

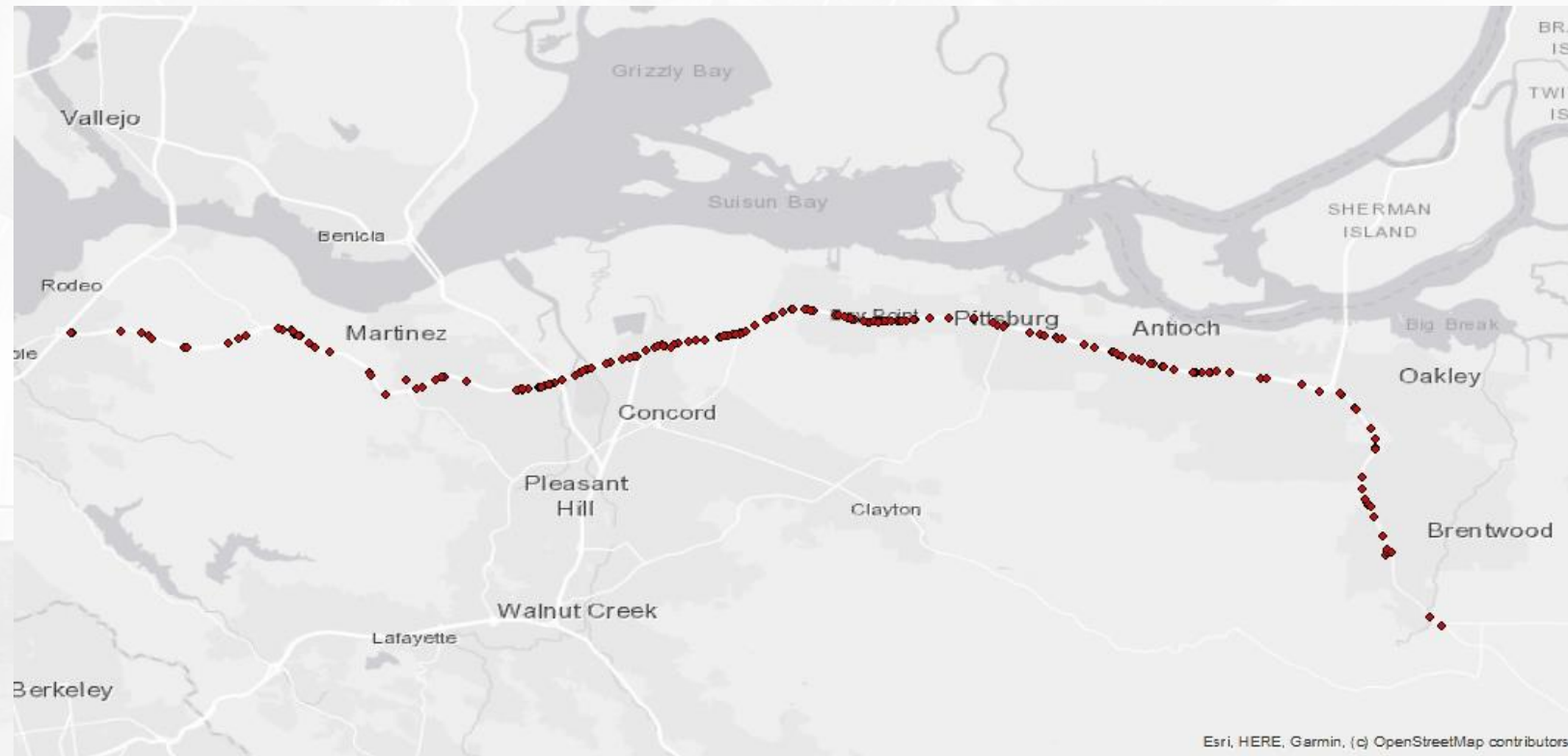
Draft List of Relevant Improvement Projects

- Reviewed all relevant existing planning documents and identified relevant projects
 - Reviewed 79 documents
- Relevant projects have been compiled into the Draft List of Relevant Improvement Projects
- 87 projects identified thus far
 - 30 Vehicular
 - 25 Transit
 - 25 Active Transportation
 - 6 Multimodal
 - 1 Goods Movement



Safety Analysis

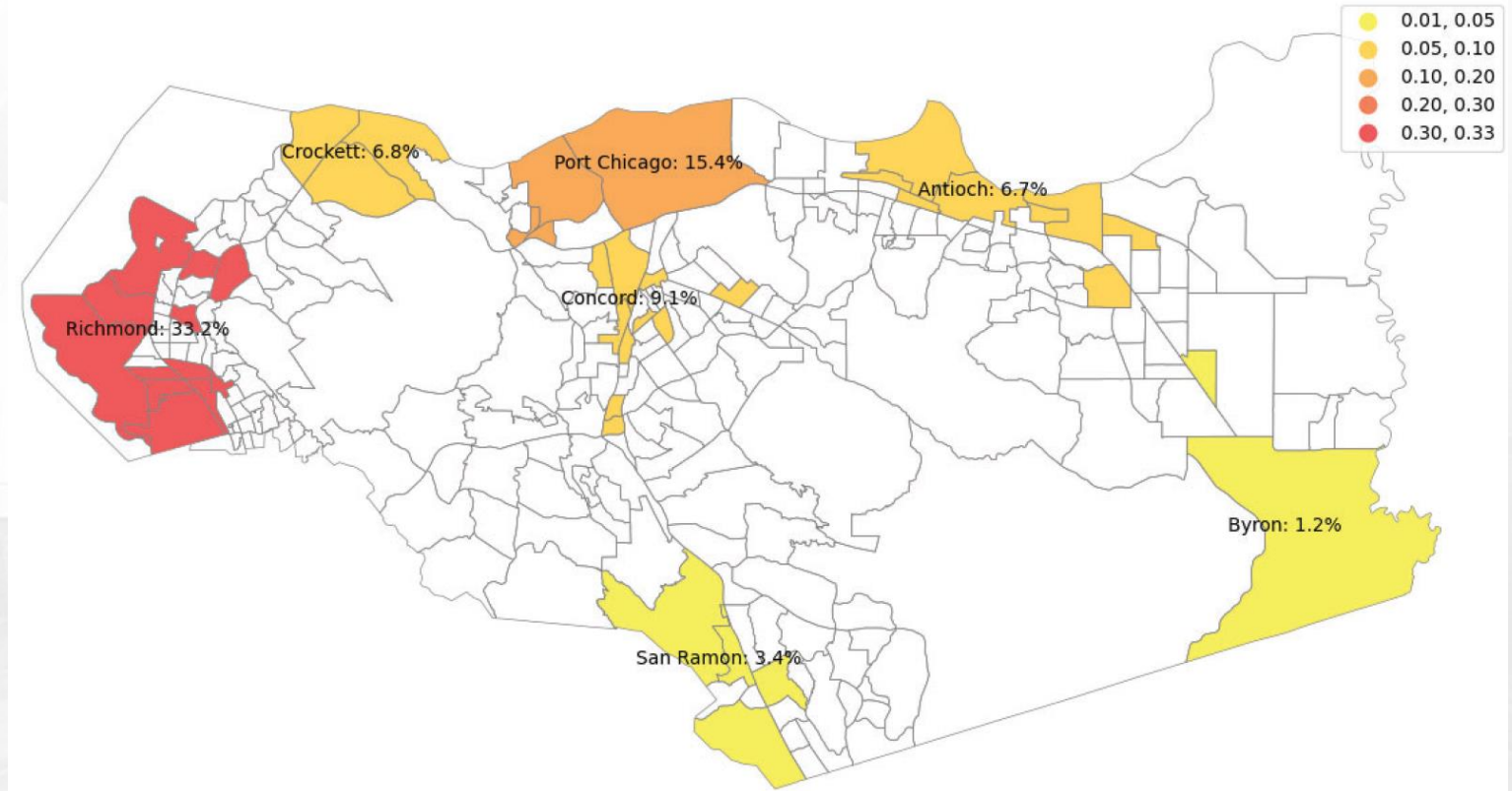
- Analyzed for SR 4 and parallel arterials
- Extracted collision data from:
 - TIMS
 - TASAS
- Collisions will be segmented similar to speed and volume data.
- For each segment, a collision rate will be determined
- High collision rate segments will be identified



Visible Injury Collisions on SR 4

Freight System Analysis

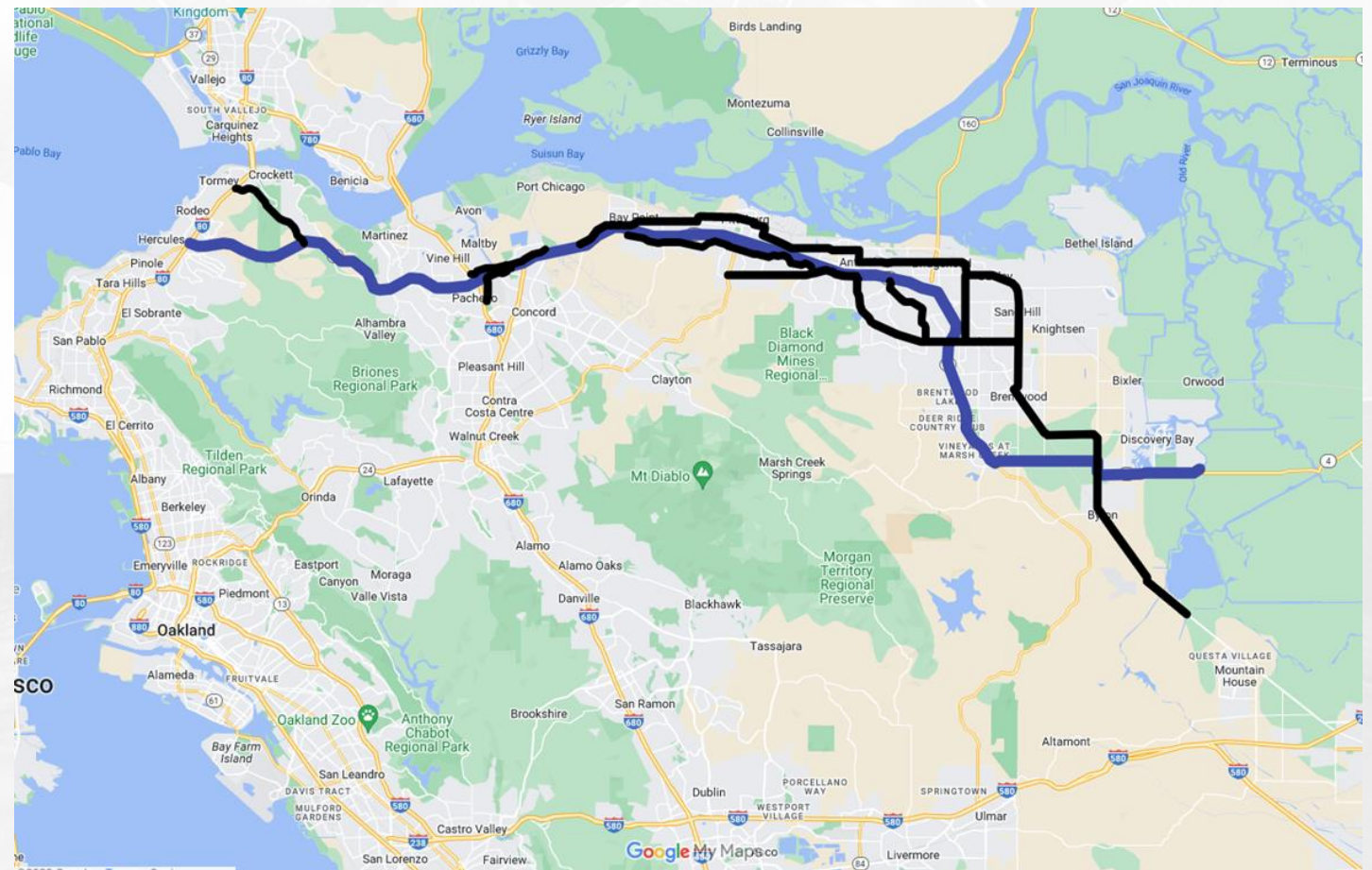
- Approximately 50% of trips ending or starting in Contra Costa are from outside of the county
- Trucks are concentrated in 7 subareas of the County
 - 17% of census tracts generate 75% of trips
- Majority of truck volume occurs between SR 242 and Byron Highway
- SR 4 appears to function as an overflow facility when traffic congestion on I-580 occurs



Arterial Network Operations Analysis

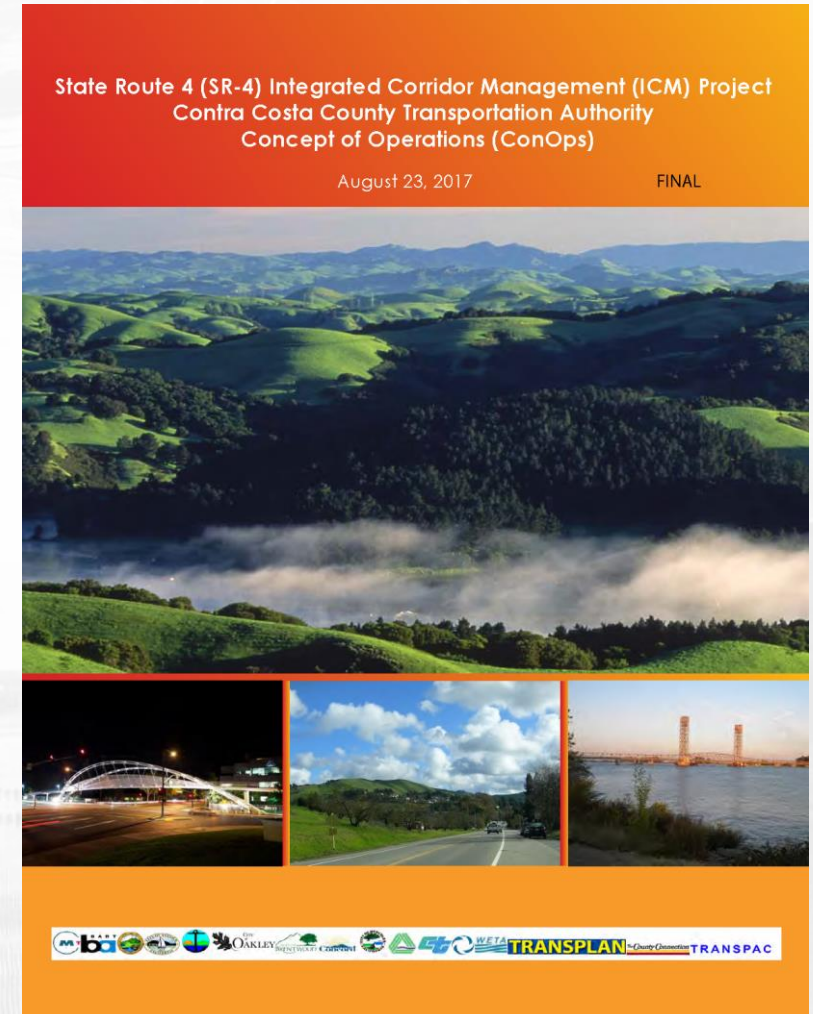
- 9 study corridors analyzed, including SR 4
- Volume and speed data collected from INRIX & StreetLight
- Poor arterial performance is generally caused by:
 - Local land use context
 - Proximity to freeway interchanges
 - Freeway bypass segments
- Problematic segments are generally located between SR 242 and Lone Tree Pkwy

Study Corridors



Emerging Technology Analysis

- LIDAR is a growing technology that could prove useful for pedestrian detection and autonomous vehicles
- Wireless services can enhance communications including:
 - 5G Cellular
 - Wi-Fi
 - Connected Vehicle Systems
- CCTA has a Concept of Operations for a SR 4 Interoperable Corridor Management System
- CCTA is developing a County-Wide Fiber Network



Analysis Use Cases

- Additional analysis findings will:
 - Identify problematic areas
 - Compare with Relevant Improvement Projects to highlight areas in need of investment
 - Suggest strategies to address Vision goals and objectives
 - Support Primary and Secondary Screening to select Vision Elements



Stakeholder & Public Engagement

Engagement Stakeholders

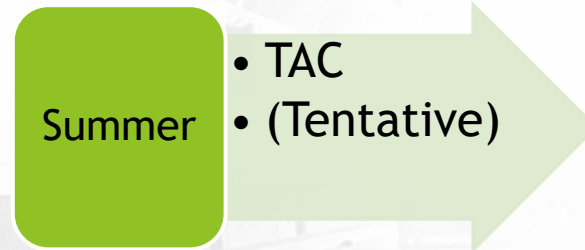
- CMCP Guidelines suggest broad engagement such as:
 - Public Agencies
 - Non-Profits
 - Transit Providers
 - Business Groups
 - Developers
 - Environmental Interest Groups
 - Social Equity Organizations
 - Active Transportation and Public Health Advocates
 - Technology and Broadband Stakeholders
 - Others

Engagement Approach

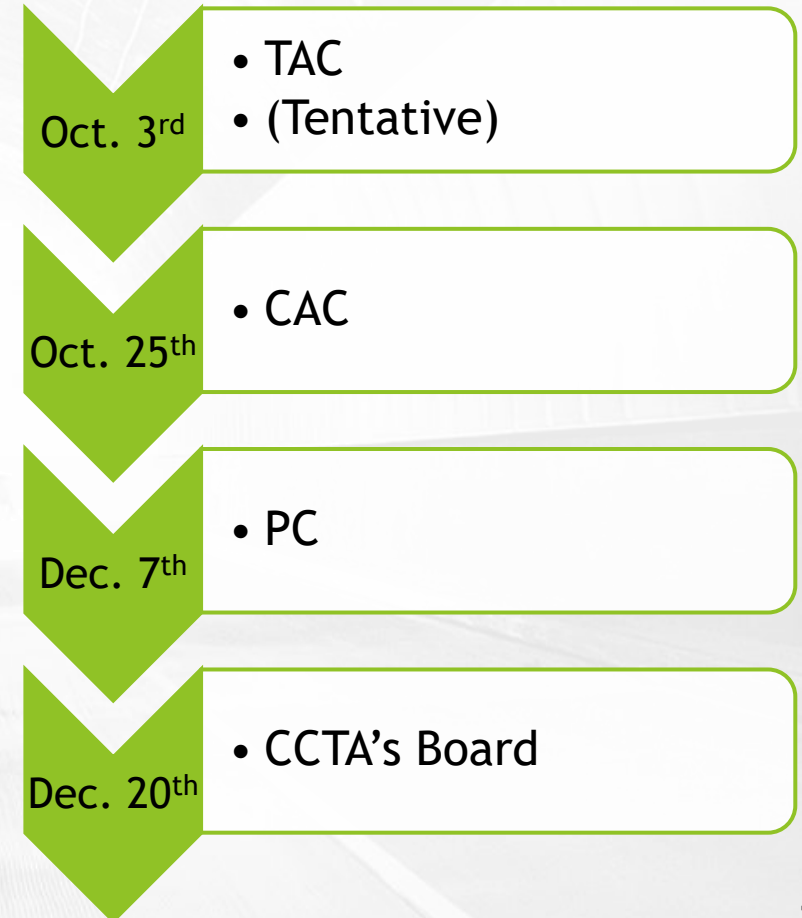
- Led by CCTA
- Project includes:
 - Pop-up Events
 - Public Meetings
 - Project Website
 - Market Research
 - Presenting to and gathering input from:
 - TAC
 - Citizens Advisory Committee
 - CCTA Planning Committee
 - CCTA Board

TAC, CCTA Committees/Board Schedule

Initial Presentations



Final Presentations



Next Steps

Gather feedback from TAC, CCTA's Committees, & CCTA's Board

Perform Primary and Secondary Screening of Relevant Improvement Projects

Select Vision Elements

Return to TAC, CCTA's Committees, & CCTA's Board for feedback



Thank you

Technical Advisory Committee

