



WORKGROUP

SENATE BILL 671

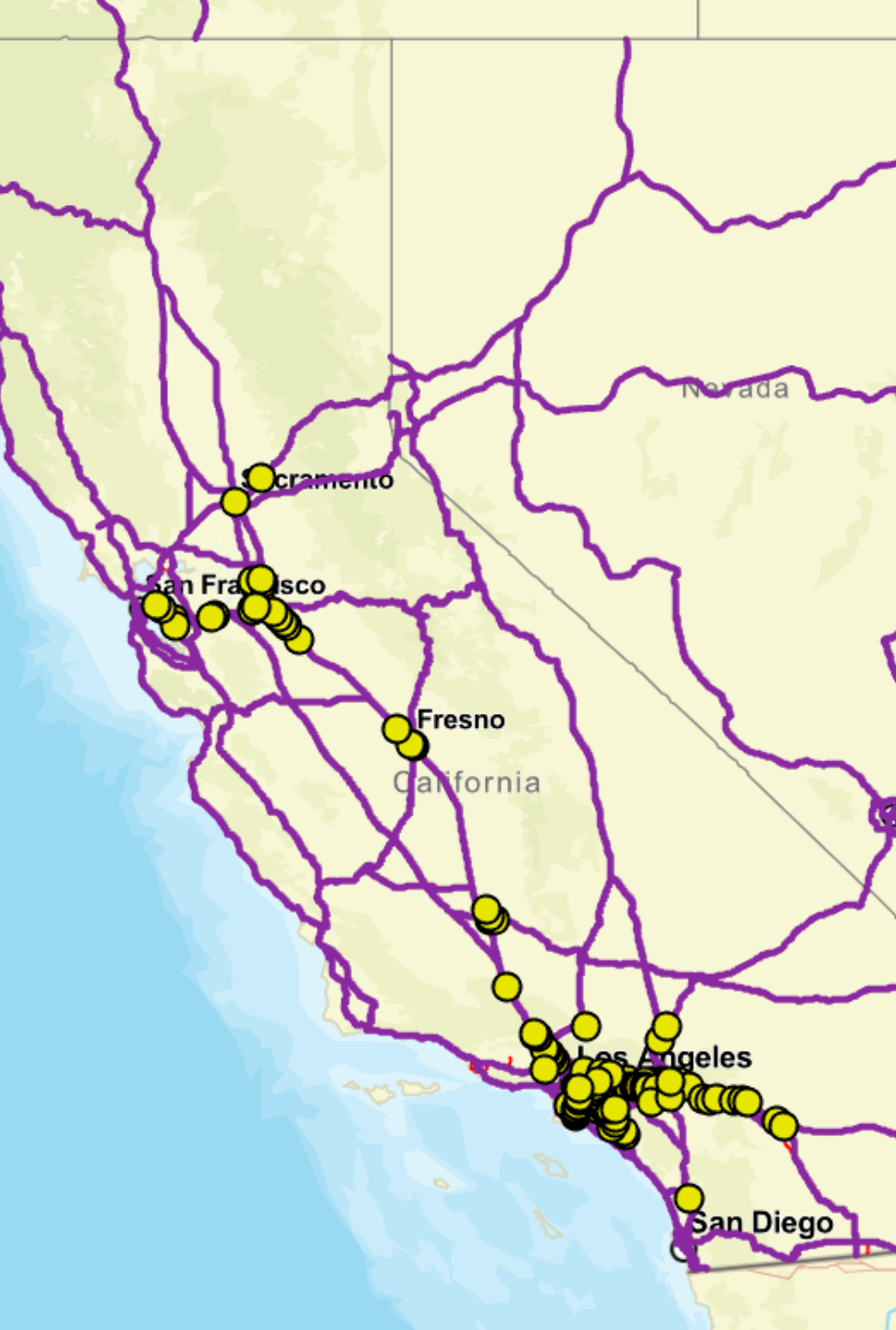
# Agenda

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- Corridor Recommendation Form
  - To solicit input
- Alternative Fuel Corridors
- Corridor Nominations (received as of early February)
- Re-Organizing the Workgroup
- Fact Sheets and Electric/Hydrogen Questions

# Corridor Recommendations

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# Alternative Fuel Corridors

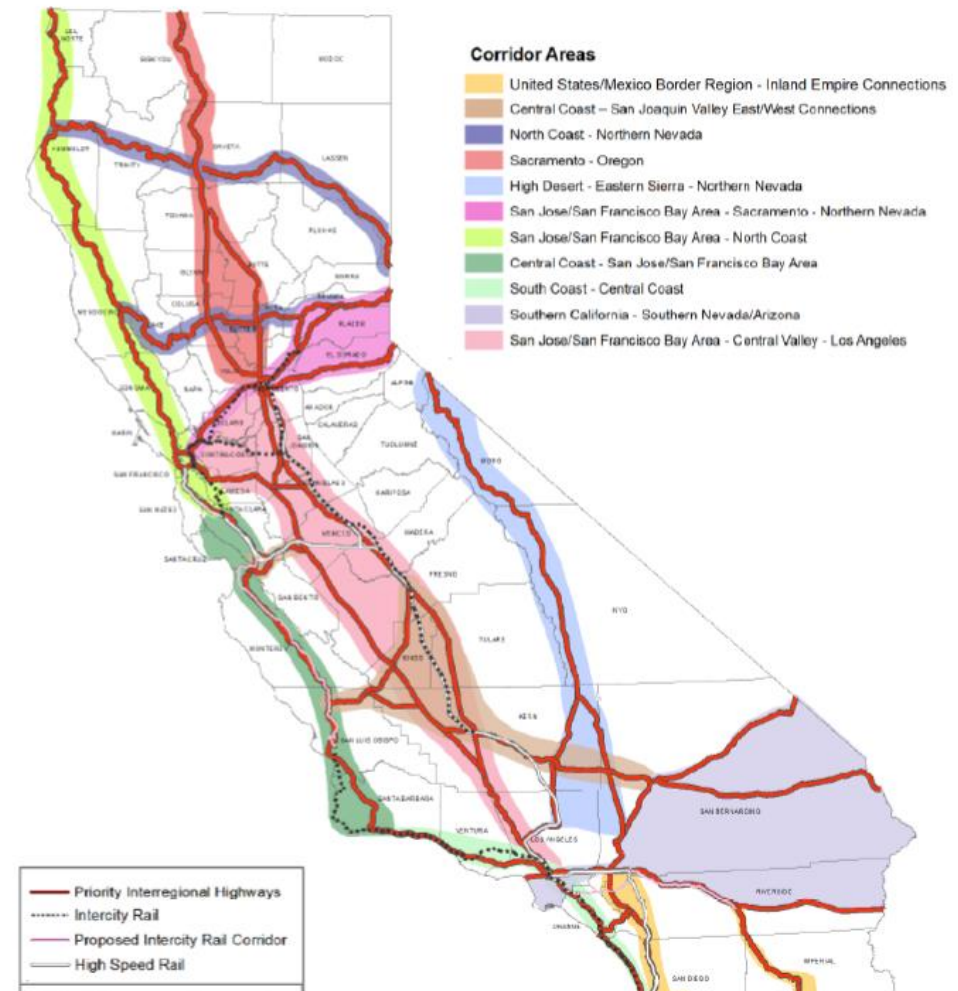
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- Alternative Fuel Corridors are federally approved and some projects along these corridors are eligible for federal funds.
- For the most part, Alternative Fuel Corridors mirror the National Highway Freight Network.
- If any corridors we select for the SB 671 assessment are not Alternative Fuel Corridors, we may want to work with Caltrans to nominate them.

## Interregional Transportation Strategic Plan (ITSP) Corridors

- Align selected corridors with Caltrans' ITSP corridors as much as possible.
- *Caltrans staff*

### Interregional Transportation Strategic Plan Strategic Interregional Corridors



# Northern CA Megaregion ZEV Medium/Heavy Duty Vehicle Blueprint Initial Study Locations



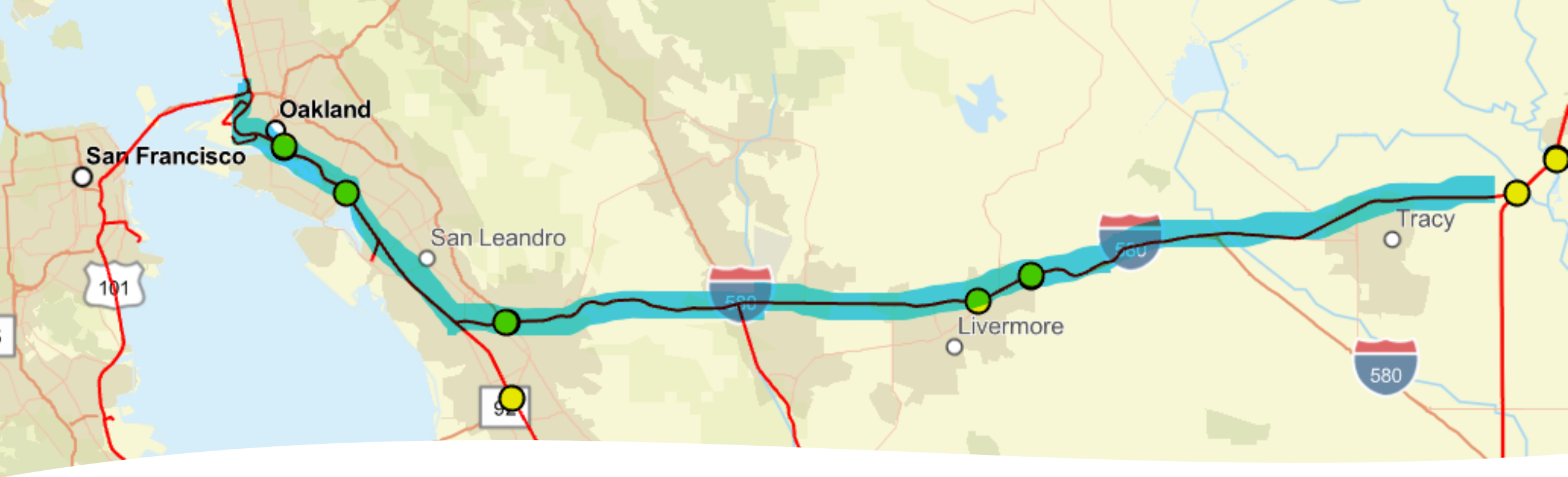
## Northern CA Megaregion ZEV Medium/Heavy Duty Vehicle Blueprint

A Strategic Partnership Grant  
Application

I-5, I-80, SR-99 and US-50 corridors  
within SACOG, MTC and SJCOC  
boundaries

*From SACOG, supported by MTC, SJCOC,  
EDCTC, PCTPA, SMUD, PG&E, SMAQMD*



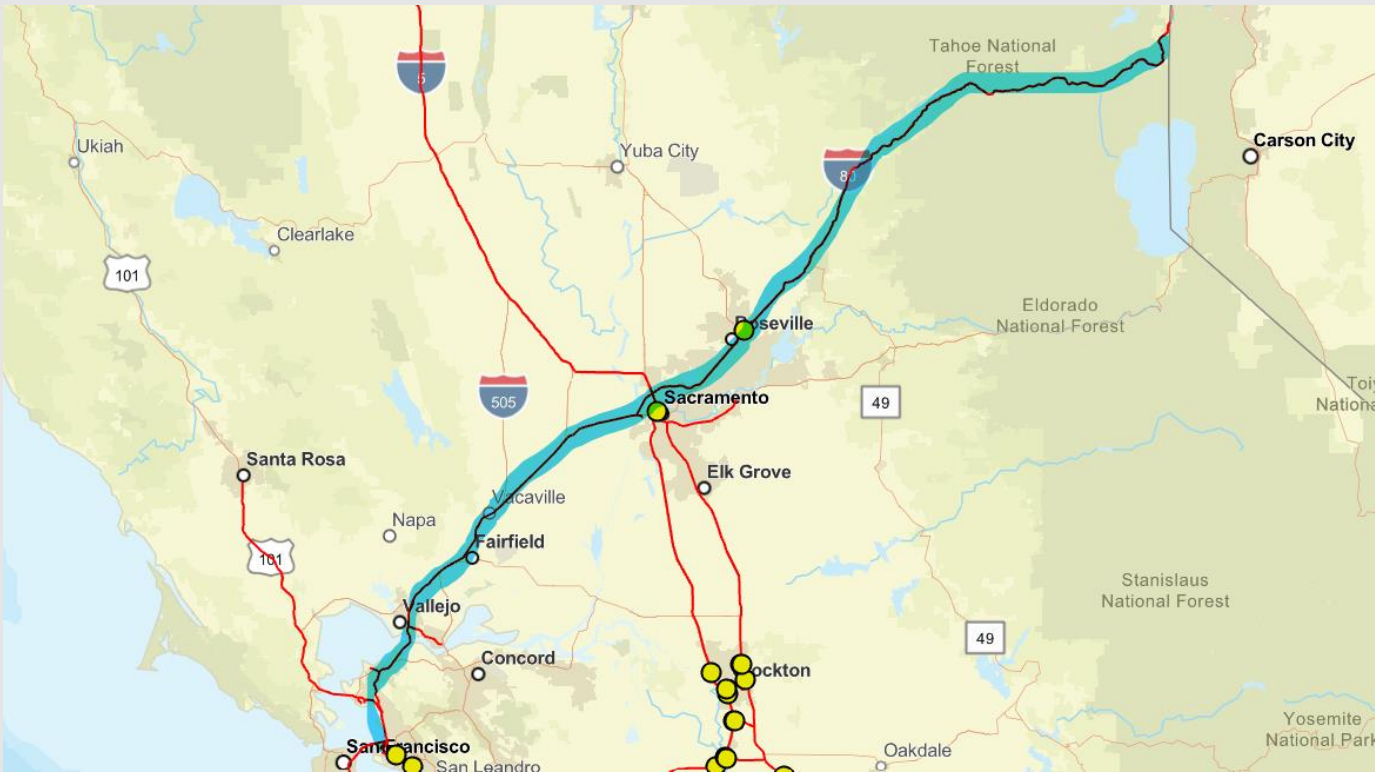


Bay Area/Port of Oakland Freight  
Corridor 1  
Port of Oakland to  
I-880 to I-238 to I-580 to I-5

- Significant freight route – warehousing/distribution
- Port connection
- Longer trips/heavier loads – possible hydrogen
- Air Quality concerns (Oakland and AB617)
- Existing hydrogen and battery electric projects
- *Port of Oakland, ACTC, STA, CCTA, MTC*

## Bay Area/Port of Oakland Freight Corridor 2

### Port of Oakland to I-880 to I-80 to East Border



- Significant freight route – international trade
- Port connection
- Longer trips/heavier loads – possible hydrogen
- Air Quality concerns (Oakland and AB617)
- Existing hydrogen and battery electric projects
- *Port of Oakland, ACTC, STA, CCTA, MTC*



# PROPOSED EAST BAY CLEAN FREIGHT CORRIDOR



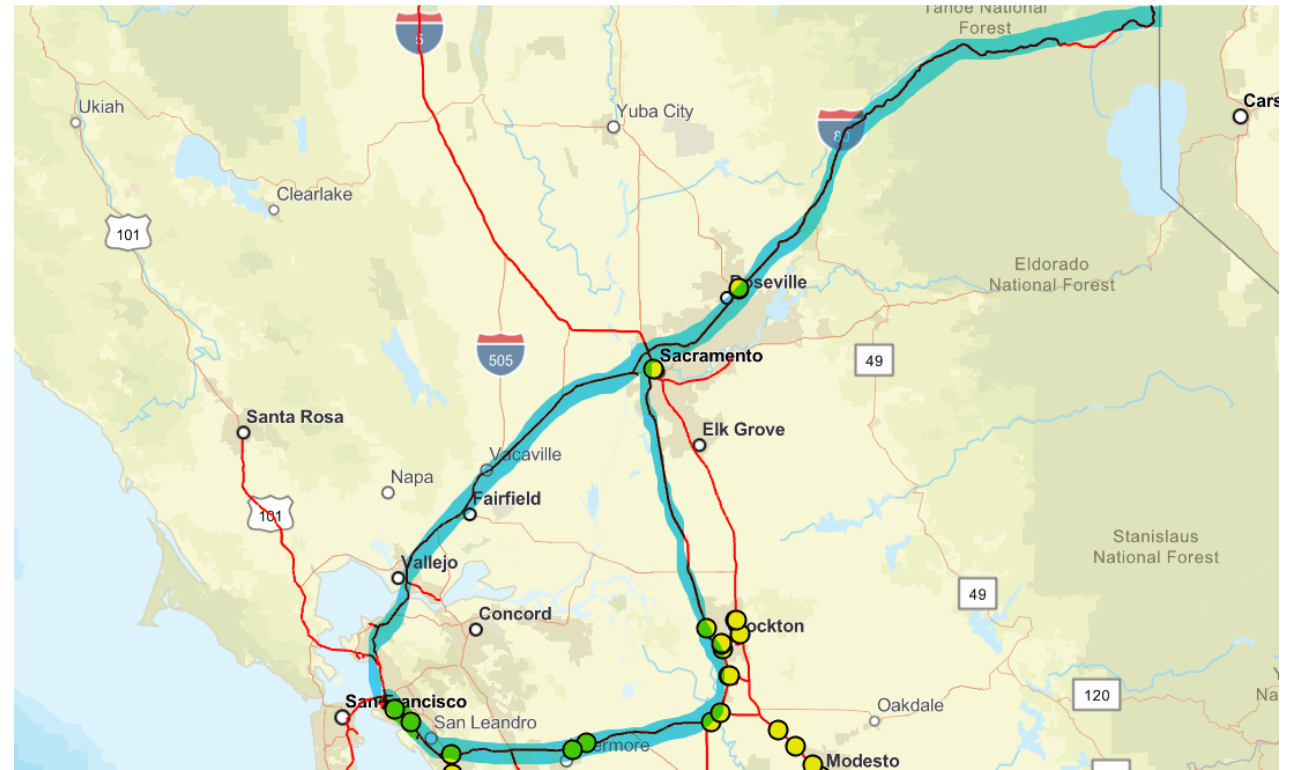
East Bay Clean Freight Corridor  
Port of Oakland, I-80, I-880, I-238, and I-580

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- Freight route
- Grid capacity/hydrogen capacity
- Existing infrastructure plans and investments
- Disadvantaged communities
- Good starting point
- Potential for early implementation
- Land availability
- *STA, CCTA, ACTC, Port of Oakland, MTC*

# Bay Area to Eastern Border

- Port of Oakland on I-80 to I-880 to I-580 to I-205 to I-5 and Lathrop to Nevada/CA border
- *Caltrux*



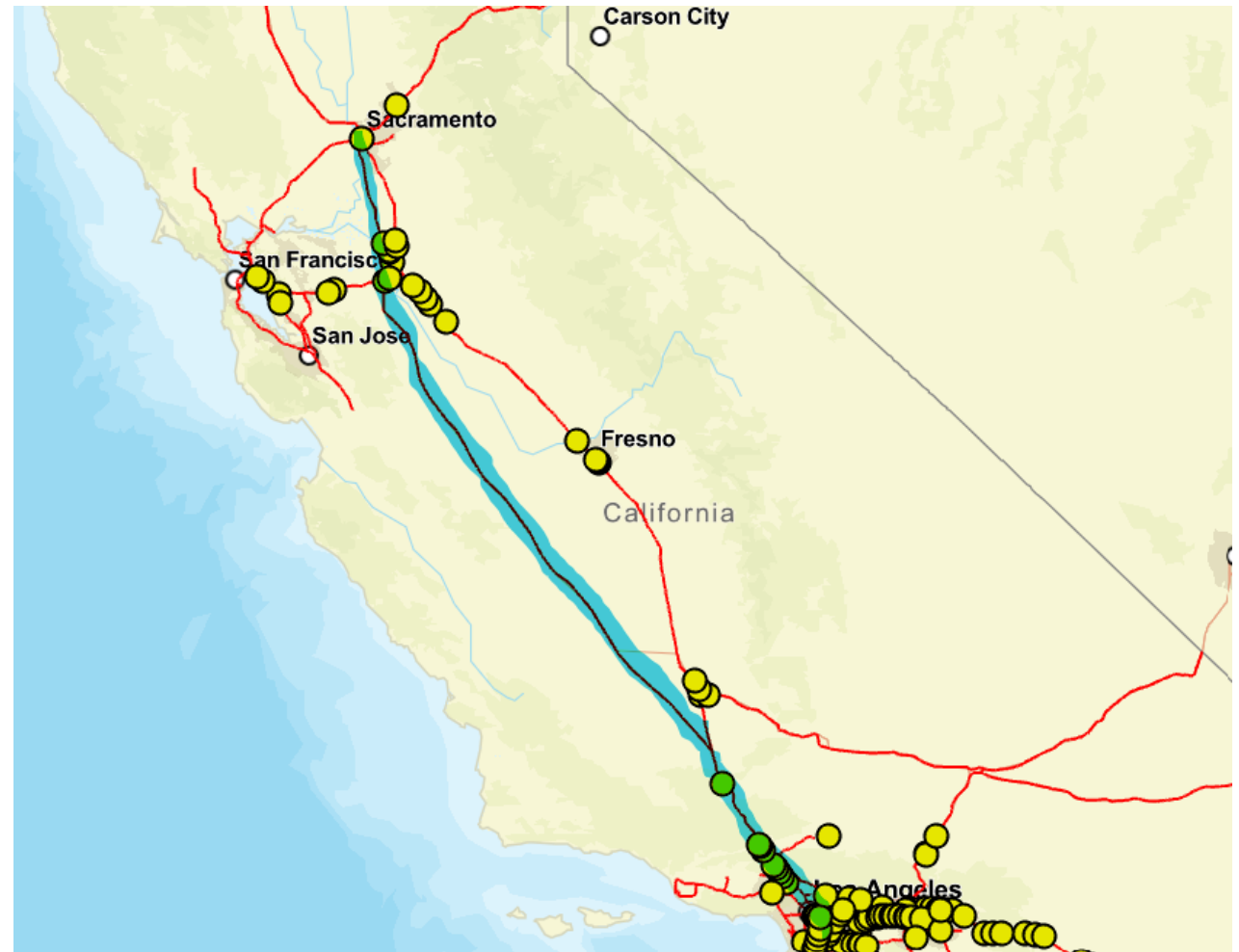
Highway 99, between the  
US 50/I-80 BL in  
Sacramento and I-5 near  
Wheeler Ridge

- Significant freight route along the Central Valley, paralleling I-5
- Air pollution impacts
- Short-haul trips
- *Tesla*



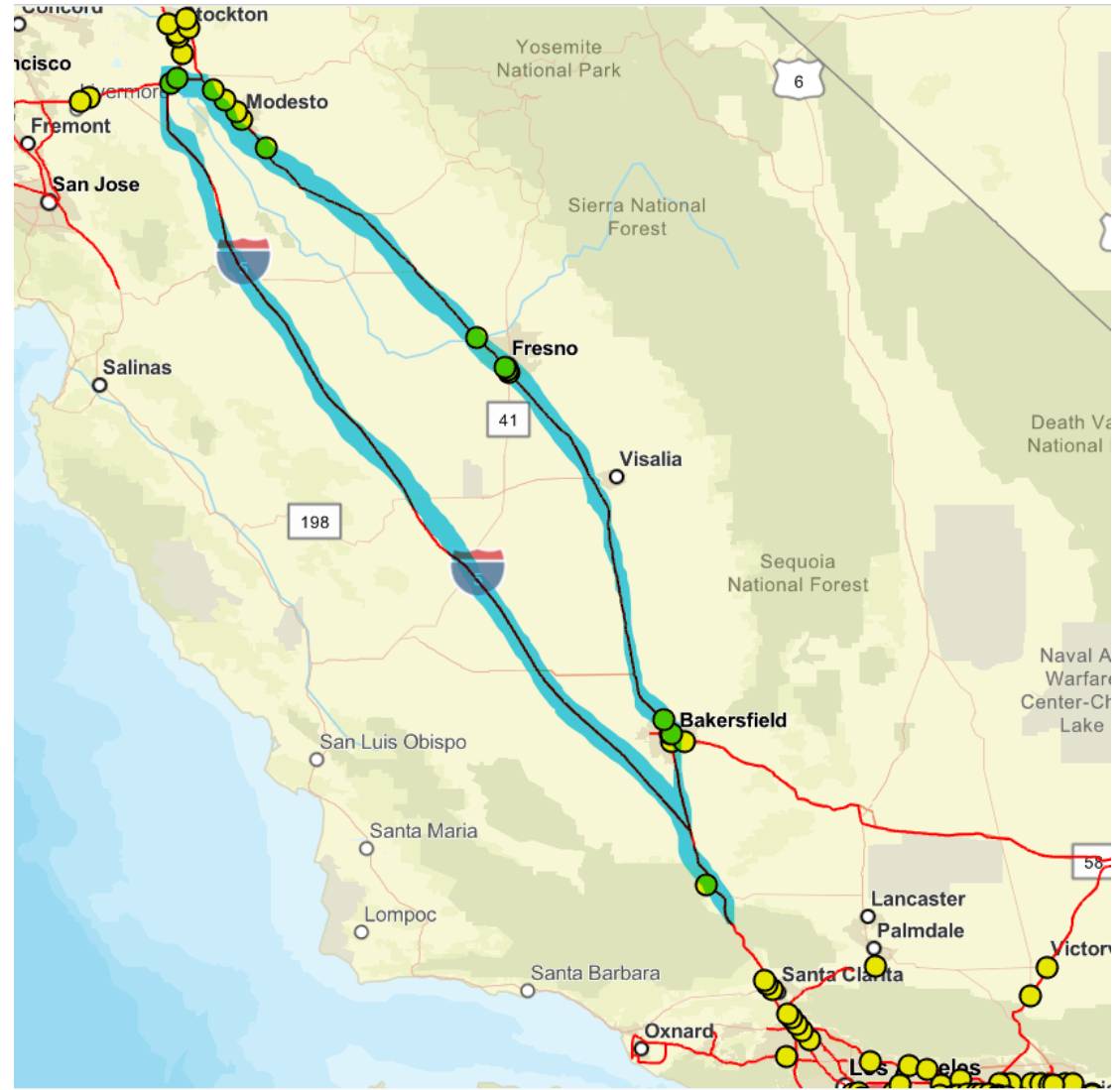
# I-5 between the I-80 in Sacramento and I-405 in Irvine

- Significant freight route
- Infrastructure plans or investments being made
- Air pollution impacts
- Variety of long trips and short trips
- *Tesla*



# Central Valley

- I-5 and I-99 between the City of Lathrop and Los Angeles County
- *Caltrux*





# I-710 South Corridor

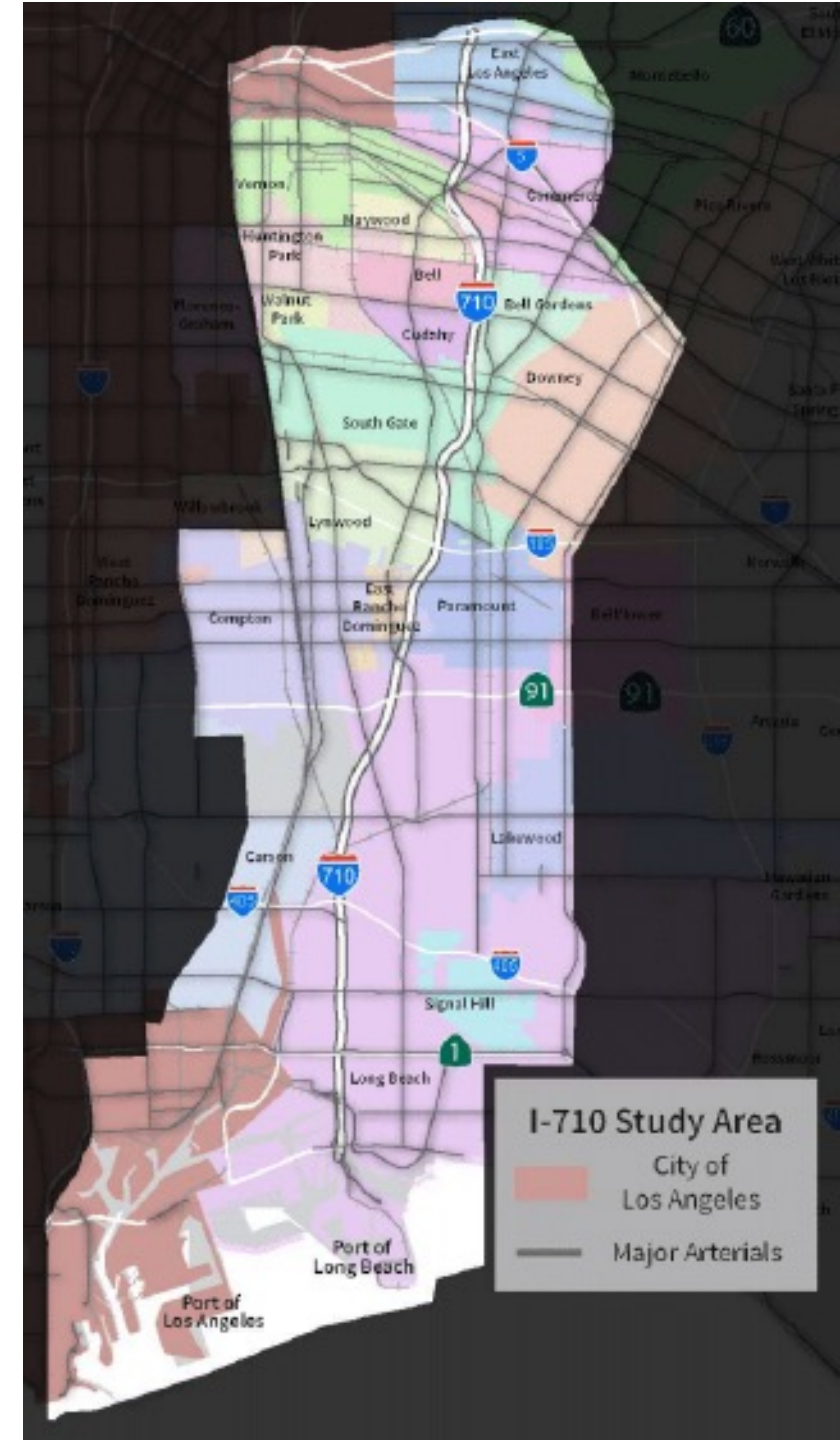
- Northern Limit: SR-60
- Southern Limit: The Ports of LA and Long Beach
- Includes adjacent communities, rail infrastructure (i.e., Alameda Corridor) and major arterial highways

## Features

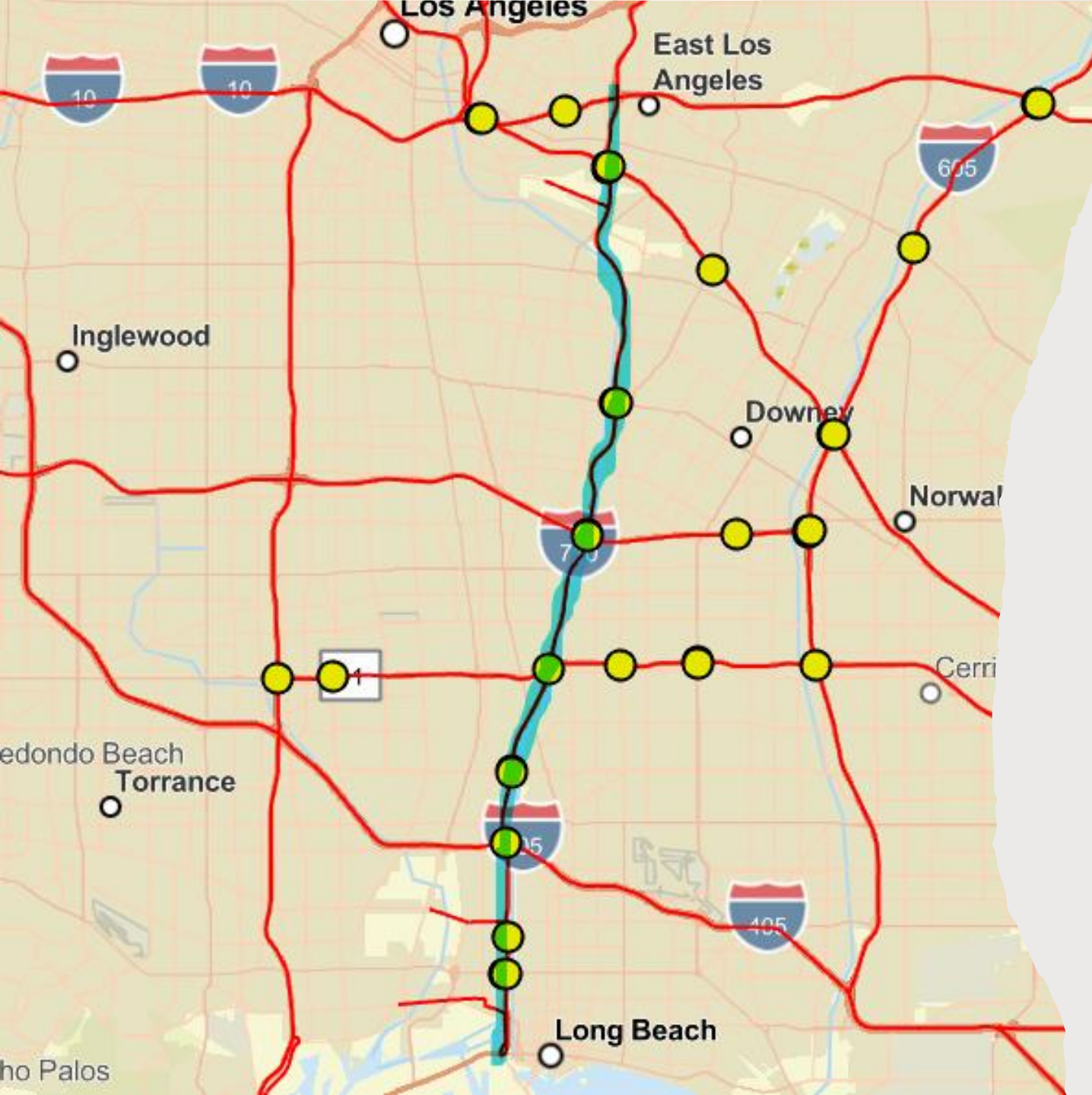
- Major, high volume truck freight route serving #1 California seaport complex
- Significant funding made available through LA Metro (\$50 million commitment) and Ports of LA and Long Beach (Clean Truck Fund rate) to leverage state and federal funds
- Existing ZE infrastructure projects
- Major air pollution and public health impacts for large concentration of disadvantaged, high population communities
- Opportunities for short trips serving clusters of intermodal, warehousing, logistics and transloading facilities within study area

## Sponsor

- LA Metro, Gateway Cities COG, Caltrans District 7 and the 710 Task Force





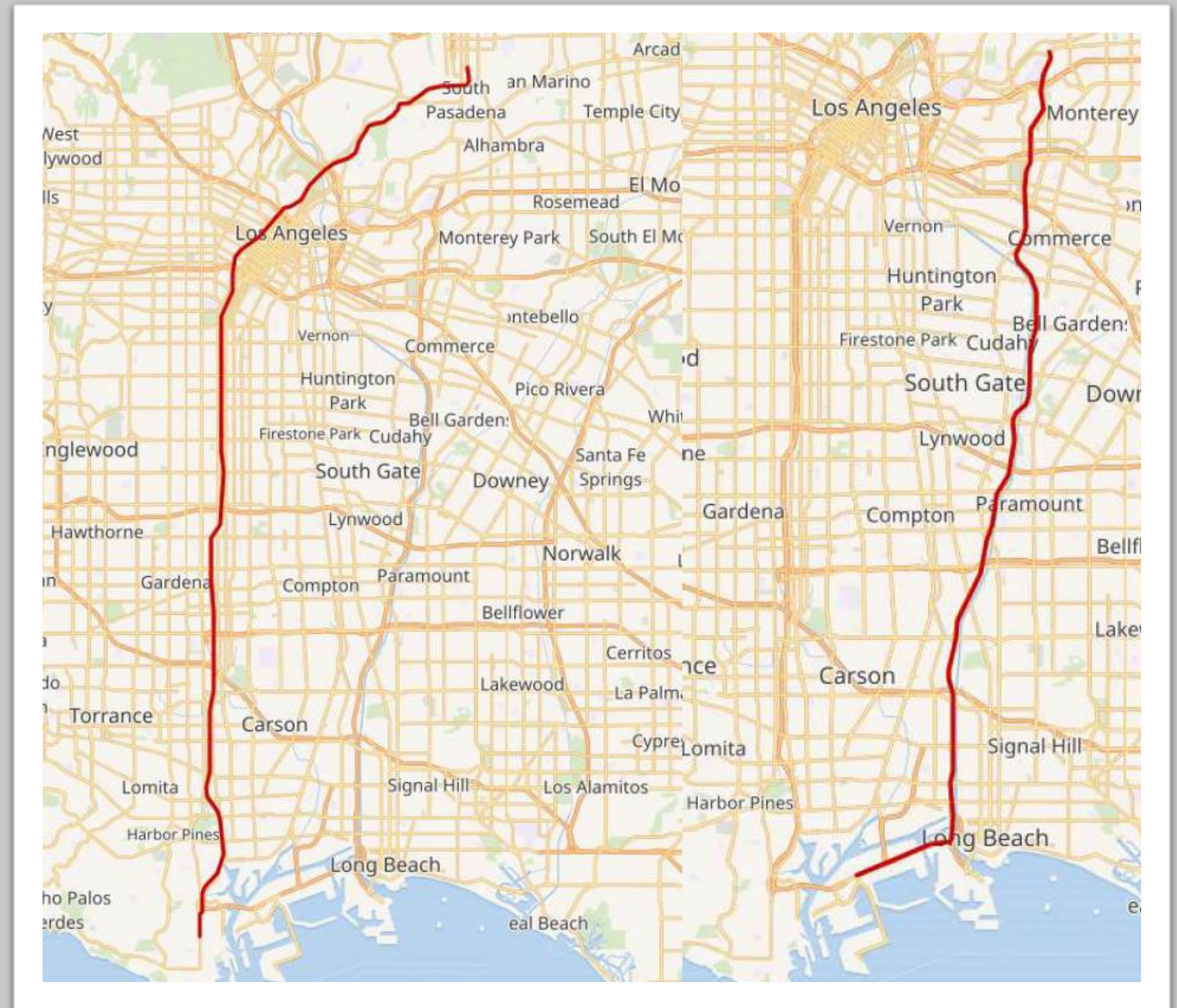


# I-710, South of State Route 60

- Freight
- Existing battery-electric charging infrastructure projects
- *Los Angeles Cleantech Incubator*

# I-710 and the I-110 feeding into the Long Beach and Los Angeles Ports

- Significant freight route to top California ports
- Infrastructure plans or investments already being made
- Major air pollution impacts to high population areas
- Short trips
- *Tesla*





# Coastal Freight Corridor (Part 1)

## I-5 San Ysidro to Orange County

## I-805 from SR 905 to I-5 merge

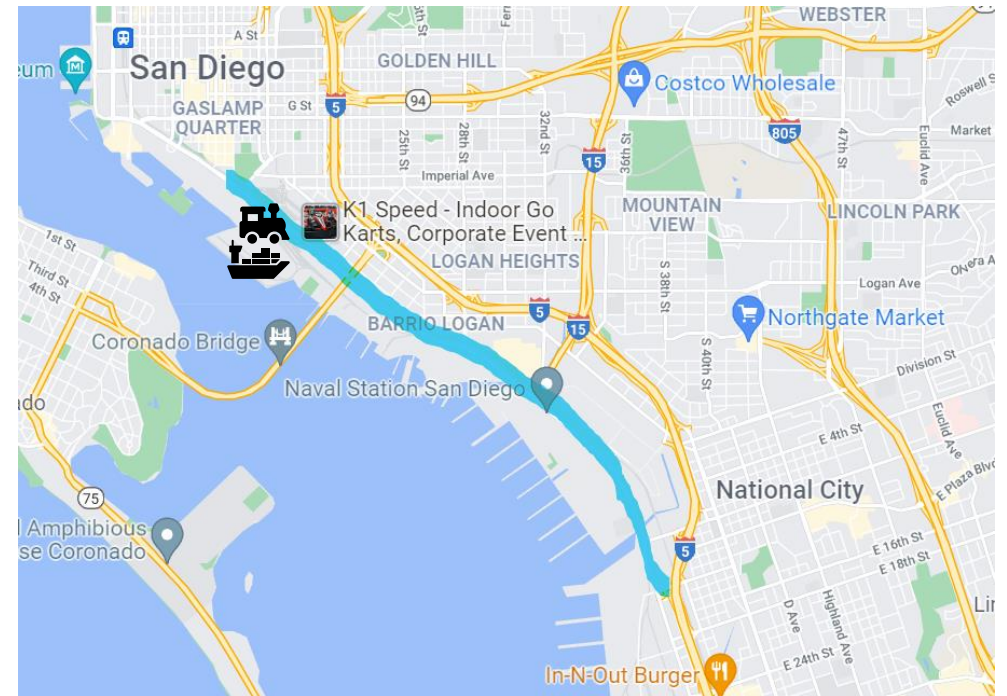
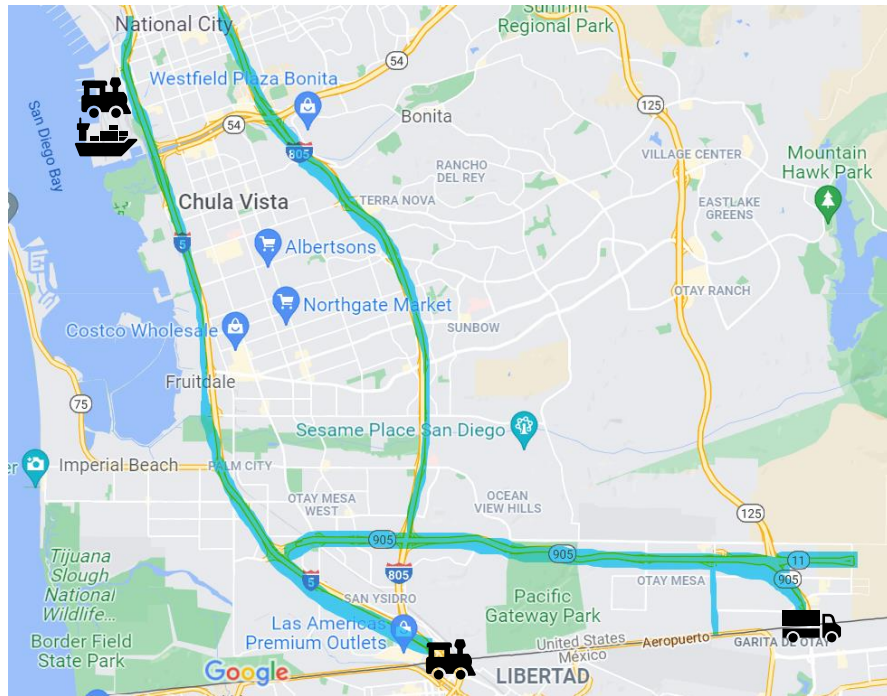


- Freight corridors
- Border – starting point
- Land for zero-emission infrastructure
- Good power supply
- Disadvantaged communities/ some air quality concerns
- *SANDAG*

# Coastal Freight Corridor (Part 2)

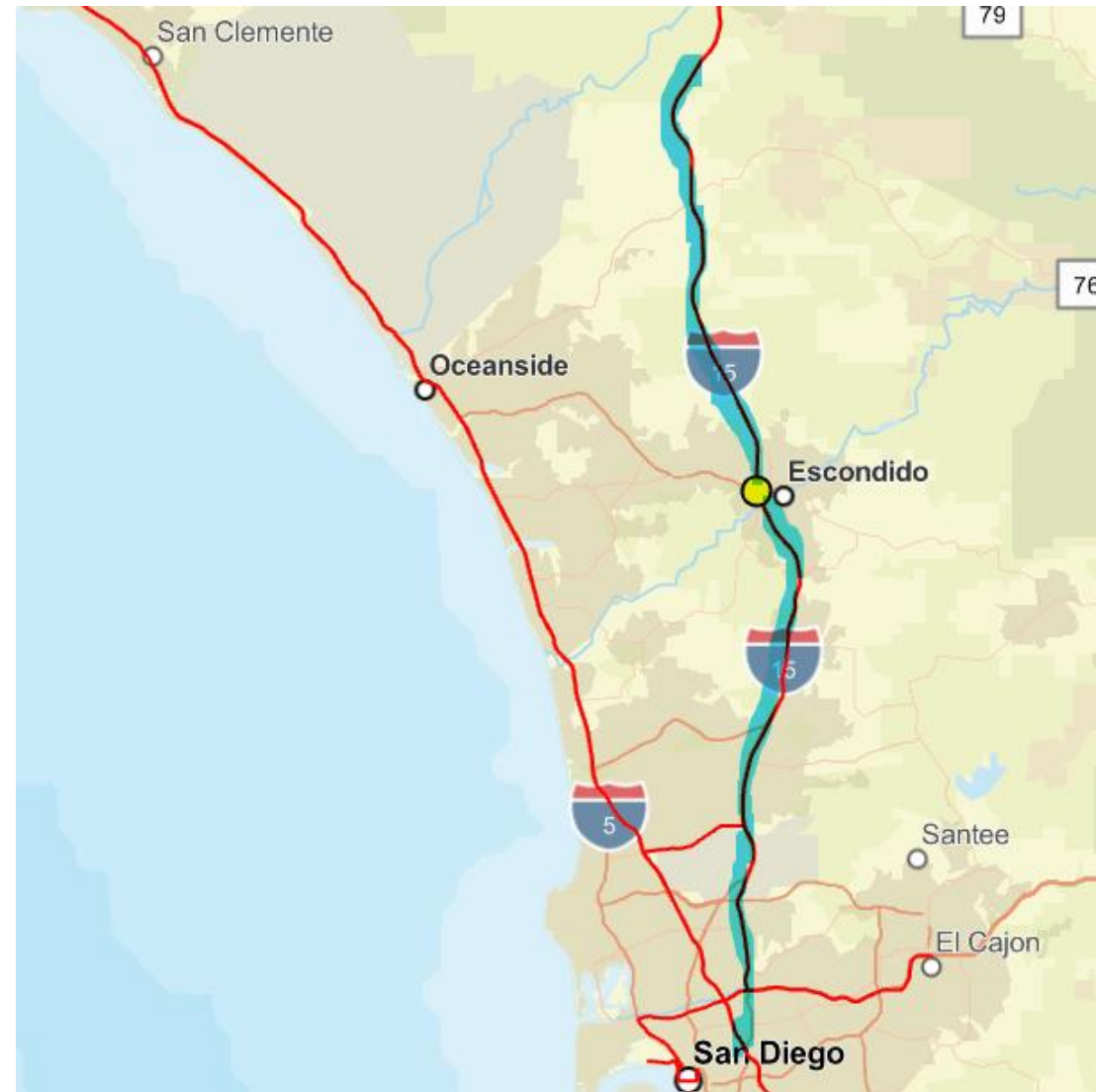
## SR 905, SR 11, La Media, & Harbor Dr.

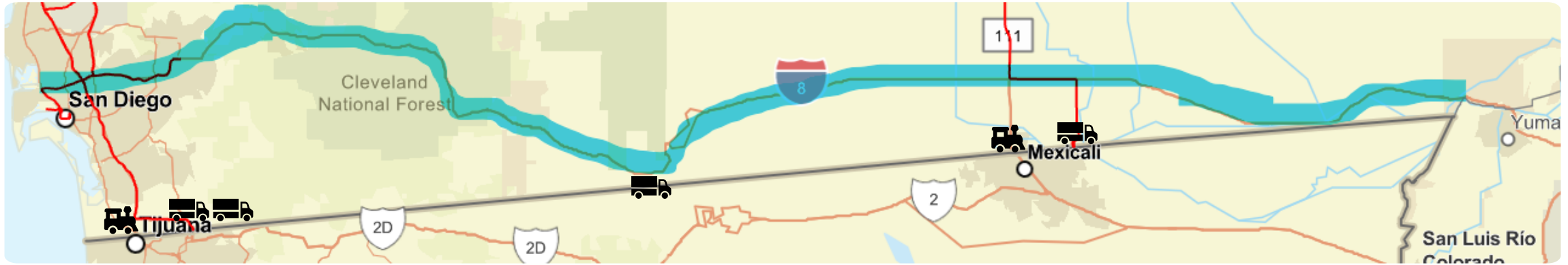
- Corridor also includes LOSSAN rail from National City Marine Terminal to Orange County line



# Inland Freight Corridor I-15 from I-5 to Riverside

- Freight corridors
- Good power supply
- Disadvantaged communities
- Air quality concerns
- *SANDAG*



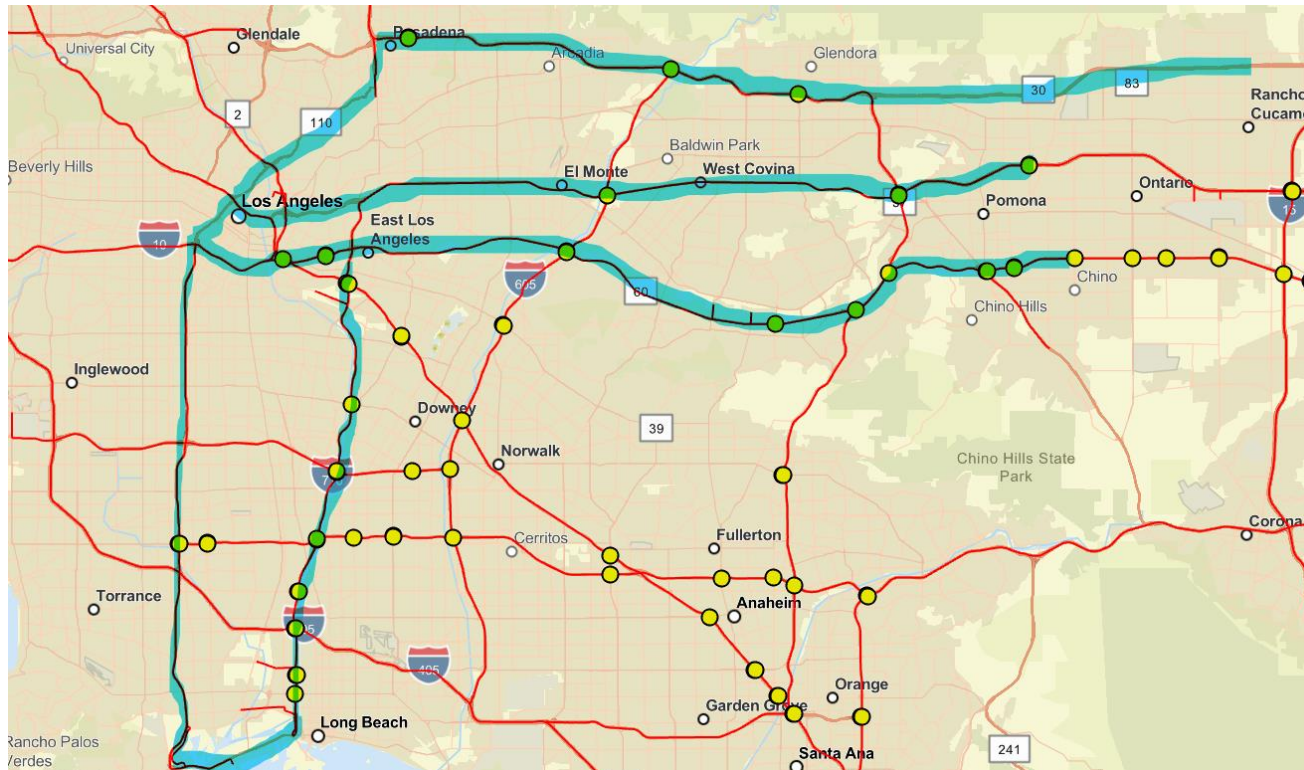


# Eastern Freight Corridor

- Freight
- Land available
- Power available
- *SANDAG*




# Los Angeles to San Bernardino



- San Pedro Port Complex to warehouses in the San Bernardino County utilizing the I-110, I-710, I-60, I-10, and 210 Highway
- *Caltrux*

# Workgroup Re-Organization



## Clean Freight Corridor Assessment



# Workgroup

# Next Steps

Emails about Fact Sheets

Meet with Electric and Hydrogen Groups

Review Remaining Corridor Nominations

Check-in with Larger Workgroup

# Fact Sheets



# Fact Sheets for Assessment

- To set the stage for discussions about projects and recommendations.
- To make sure the audience understands key subject matter.

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# Draft - Fact Sheet Topics

- Freight Business Plan Economics
- Drayage Sector Business Model
  - Fleet Operations
  - Independent Owner/Operators
- Long-Haul Business Model
- Truck Use Cases
- Understanding Port Operations (include drayage truck registry)
- Energy Distribution
- Battery Storage and Micro-Grids
- Liquid Hydrogen Distribution
- Installation Process – Electric Charging and Hydrogen Re-Fueling Stations
- Sources of Alternative Energy
- Energy Demand
- Regulatory Framework and Timing
- Engine Manufacturers
- Understanding Rail Operations
- Freight Forwarders
- Warehousing/Logistics Sector



## Hydrogen / Electric Infrastructure Questions

- Process
- Cost
- Timing
- Electricity/Hydrogen Considerations



# Other Topic Areas

## Financing

- How are charging/re-fueling stations currently financed?
- What is the business model for ownership and operations?
- What are business needs/recommendations?

## Programmatic EIR

## Micro-Grids

## Throughput Improvements

## Safety Improvements

Thank You