

# West Coast Green Highway

- **Martin Tuttle**

Deputy Director Planning,  
California Department of  
Transportation

- **Pat Perez**

Deputy Director Transportation,  
California Energy Commission



# West Coast Green Highway

***Corridor broadly defined as highways, ports, local infrastructure and vehicles with I-5 as the symbolic core route through the region***

- State of Washington in leadership role
- Oregon and California, federal, regional, local agencies, ports and private partners



# Overarching Issues

- How can the mobility of people and goods and the economic benefits mobility provides be maximized, while minimizing environmental costs and community impacts associated with petroleum based vehicle fuels?
- How can the West Coast work together to remain economically competitive in a global trade environment?
- Governor Brown's Solar Highway Initiative part of electric power to be generated on State property

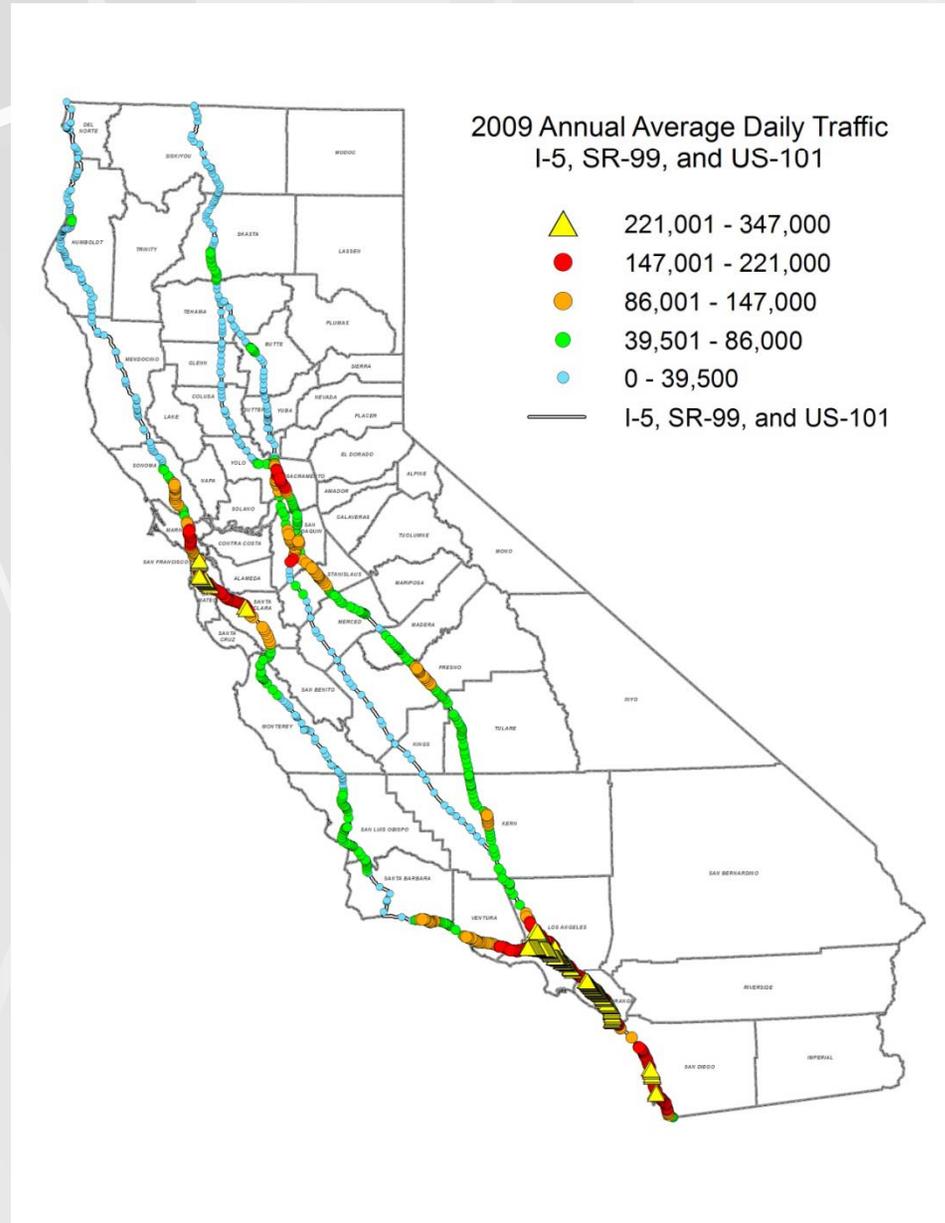


## Focus on N/S Routes

I-5 is not the dominant N/S travel route through much of California, though it is clearly important.

High traffic coincides with location of cities through the Valley and on coast.

Vehicle battery range makes interregional travel impractical at this time.

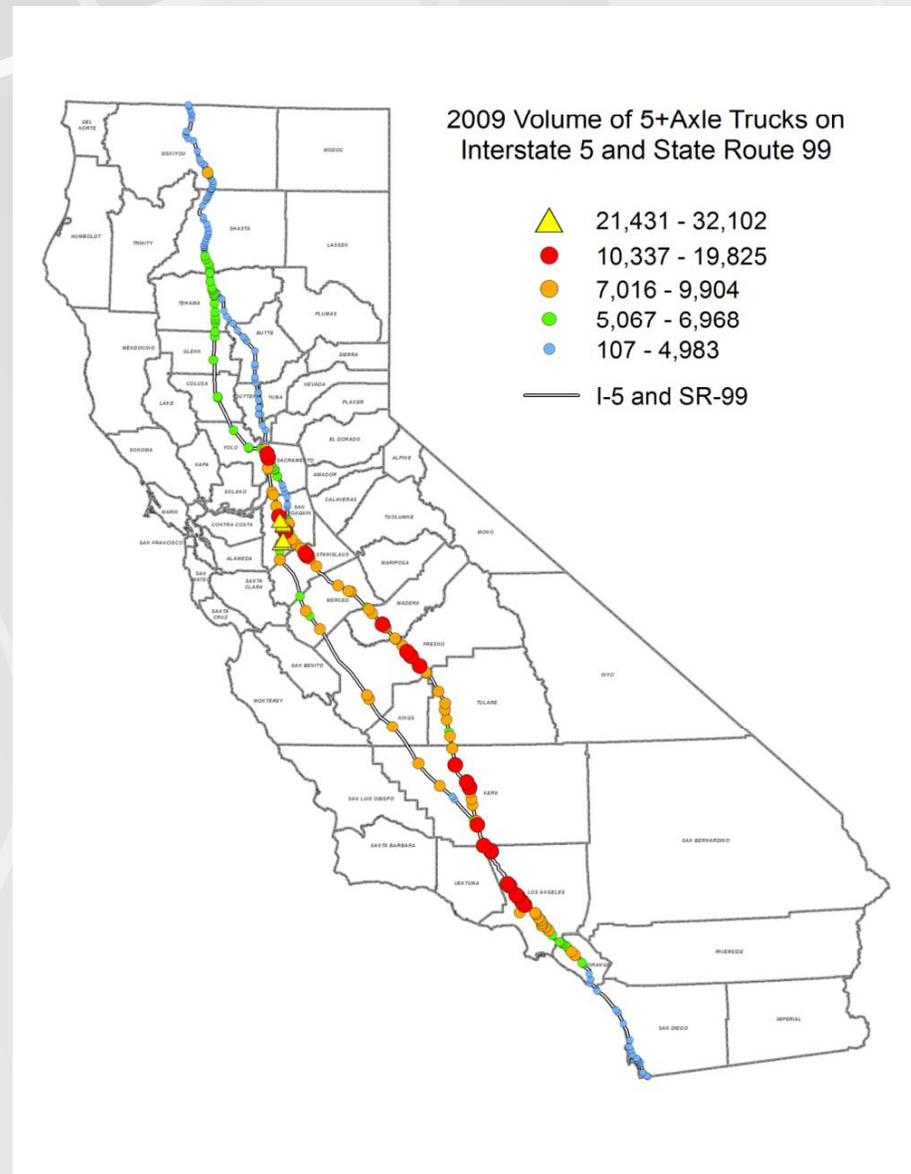


## Average Annual Daily Truck Traffic

Big Rig, 5-axle trucking follows similar pattern to all travel, having higher volumes on Route 99 in San Joaquin Valley.

Substantial drop off in truck traffic on I-5 north of Sacramento and south of Los Angeles.

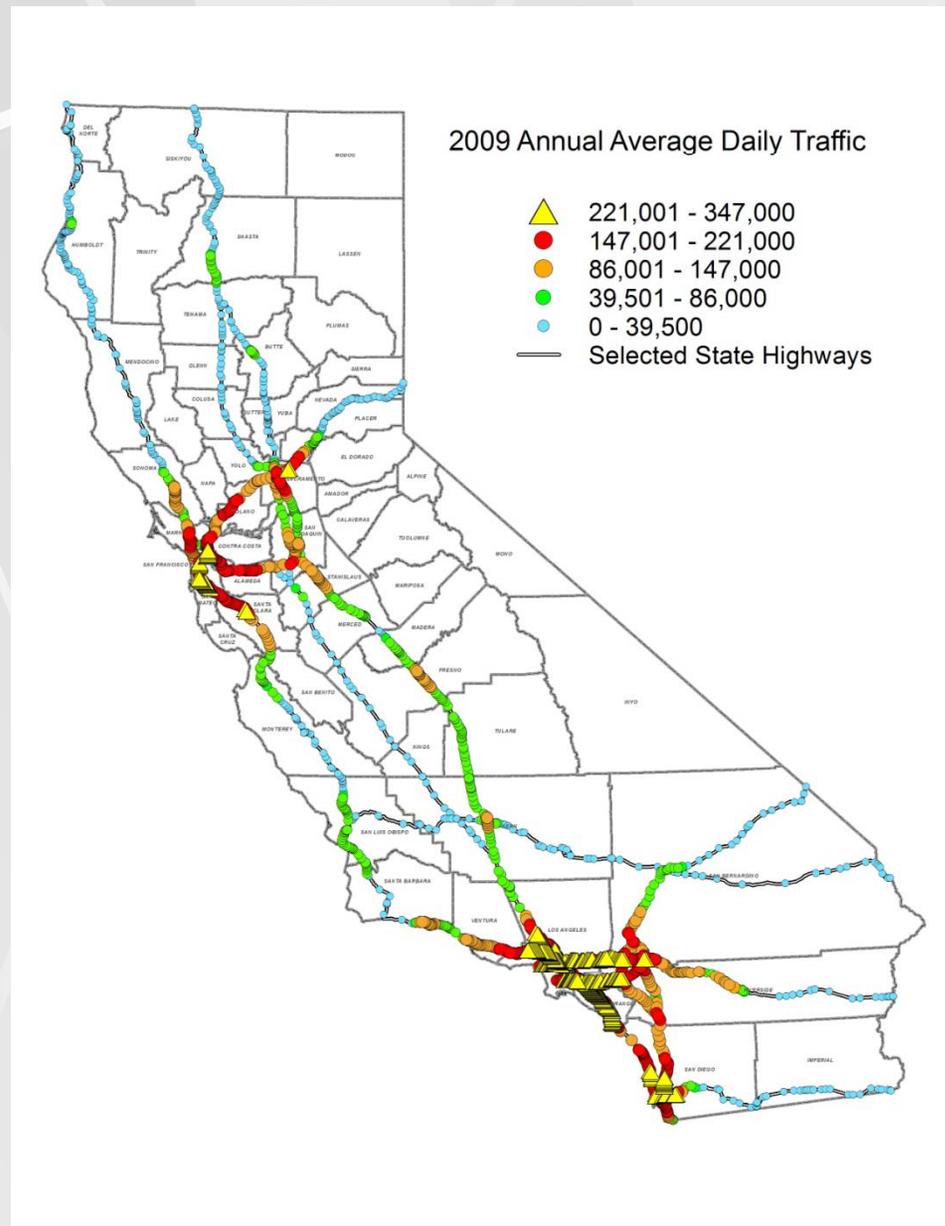
Alternative fuels for trucking such, as natural gas, may have strong potential within this sub-corridor.



## Traffic Levels

High traffic corridors in urban areas match concentrations of charging stations.

Areas with lower traffic have few or no charging stations.

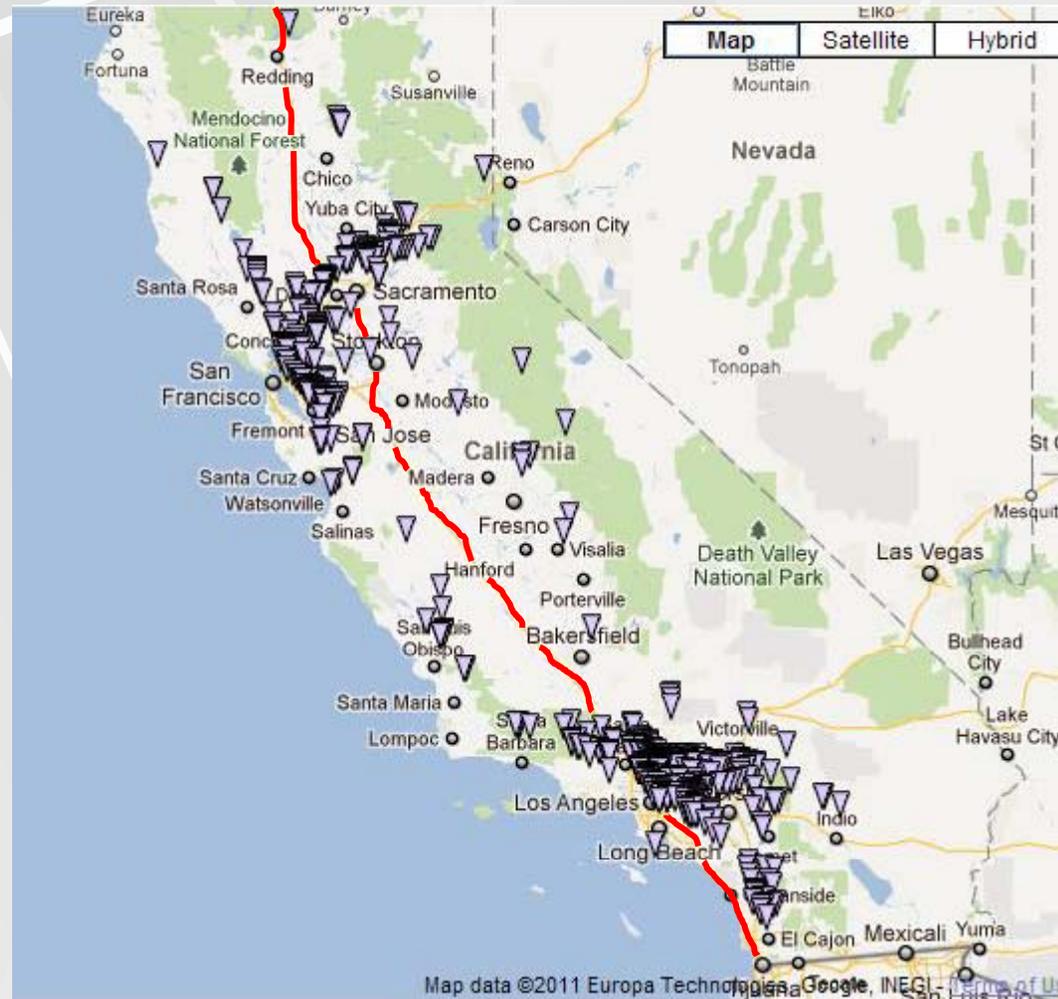


## Existing EV Charging Stations

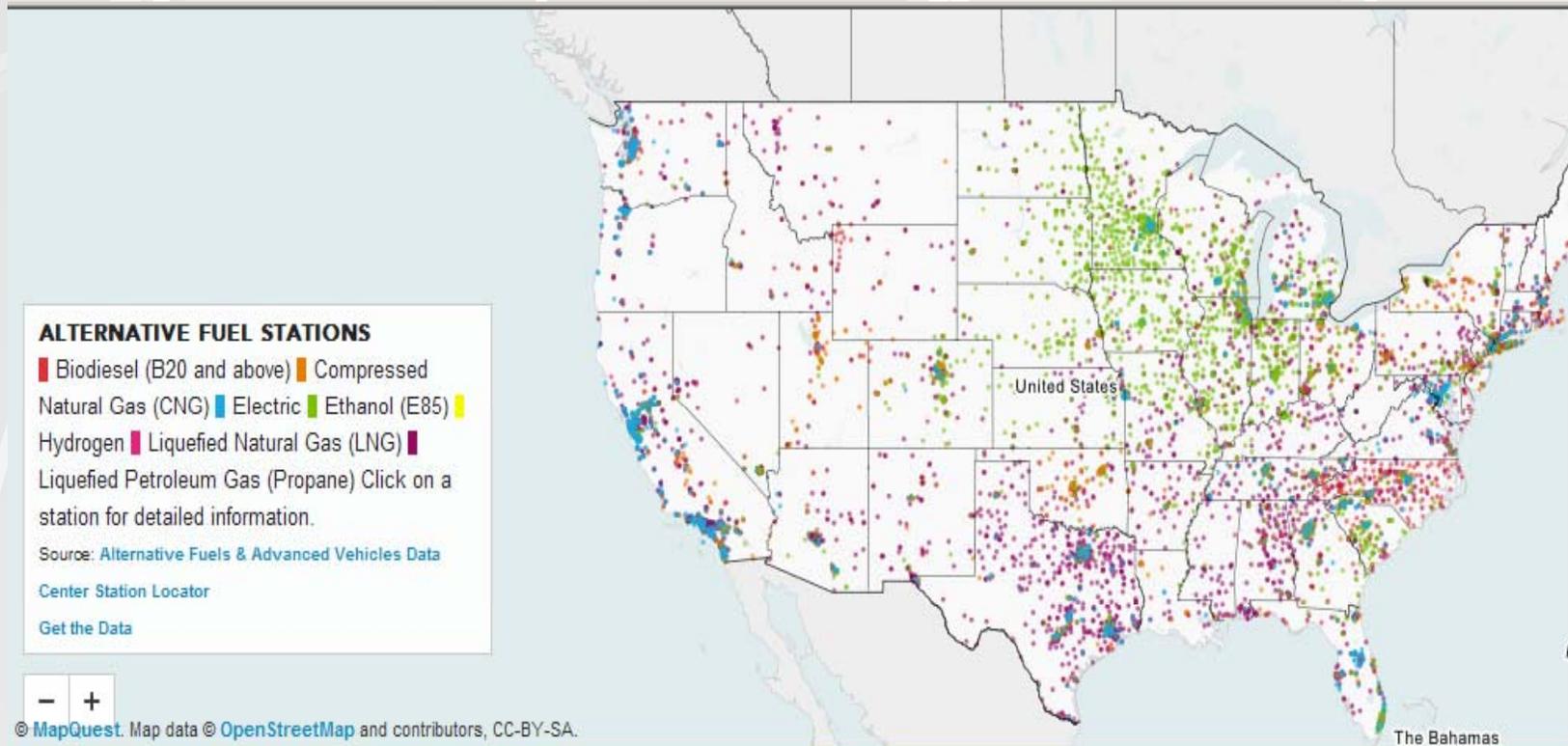
Concentration in urban areas, new locations being frequently added.

Extensive gaps north of Sacramento and between S.F. Bay Area and Southern California.

Scattered locations along Route 99 and Highway 101, and nothing on I-5.



# National Perspective



# California Opportunities

- Partnerships among state agencies, regions and others
- Vehicle technology improvements
  - More efficient engines in autos, trucks, ships, trains
  - Hybridization
- Fuel improvements
  - Low-carbon fuel
  - Electrification
  - Other fuels
- Operational improvements
  - Congestion reduction
  - Better vehicle and equipment maintenance
  - Mode shifts

