

2011 CALIFORNIA HOV DEGRADATION DETERMINATION REPORT and ACTION PLAN SUMMARY

OCTA BOARD MEETING

September 23, 2013







Requirements

- Prepare HOV Degradation Determination Report.
- DOTs to remedy degradation (180 days).
- Remedy period began on July 31st.
- Remedies must be firm and clearly defined.
- Potential Sanctions: Federal funding / project approvals.
- Keep HOV speeds above 45 mph more than 90% of the time.



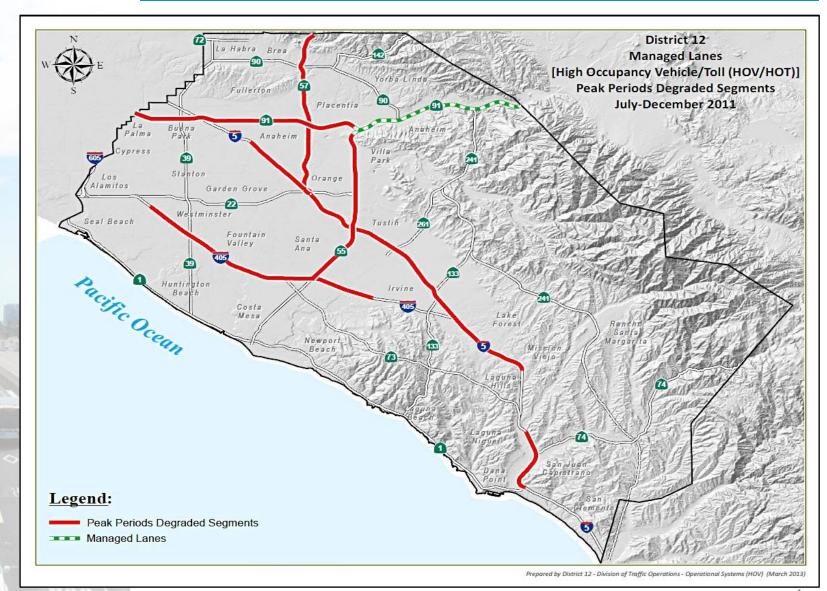


Degradation Determination

- Measured for 6 months (July to December).
- Degradation has been increasing since 2005.
- o Most HOV lanes degraded in 2011.
- Increased in 2012.
- Continues to increase as economy recovers.

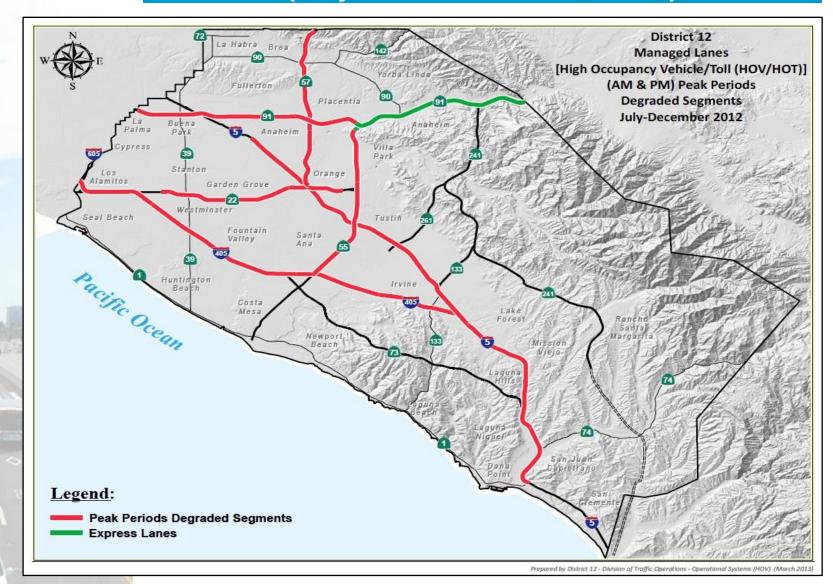


Orange County HOV Lane Degradation Map (July 1 - December 31, 2011)



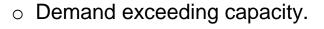


Orange County HOV Lane Degradation Map (July 1 - December 31, 2012)









- o Bottlenecks.
- o Merging.
- Congestion in general purpose lanes (Friction).
- o Construction activities.
- Driver behavior.
- o HOV violators.







Remediation Solutions

Two lanes

- Add second HOV Lane 2+.
- Add second HOV lane and convert to HOT 2+.
- Add second HOV lane and convert to HOT 3+.

One lane

- Raise HOV occupancy to 3+ and convert to HOT.
- Raise HOV occupancy to 3+.

Operational Improvements

- Add HOV weaving lane.
- Add HOV direct connectors.
- Increase enforcement.
- Intelligent Transportation Systems / Transportation Demand Management (ITS/TDM).



Benefits of Solutions

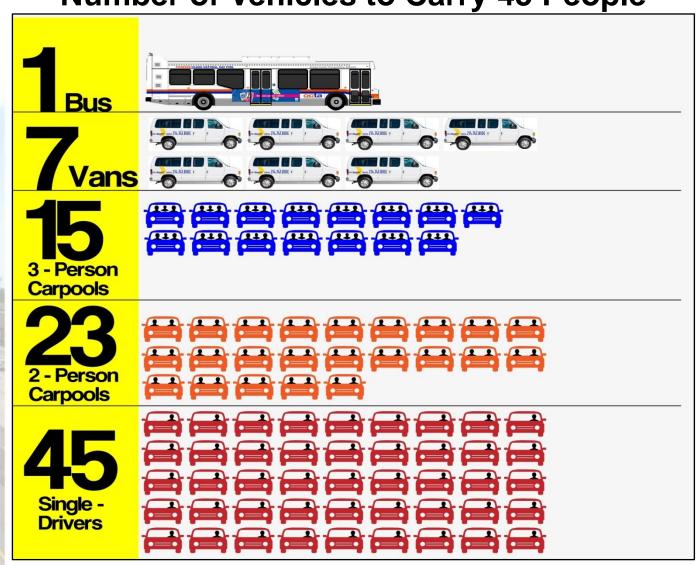
- o Increase Capacity.
- Improved HOV operation.
- Higher speed / Decreased travel time.
- o Provides travel choices.
- Improved trip reliability.
- Improved air quality.
- Potential transit alternatives.
- Cost sharing.





HOV Lanes Move More People

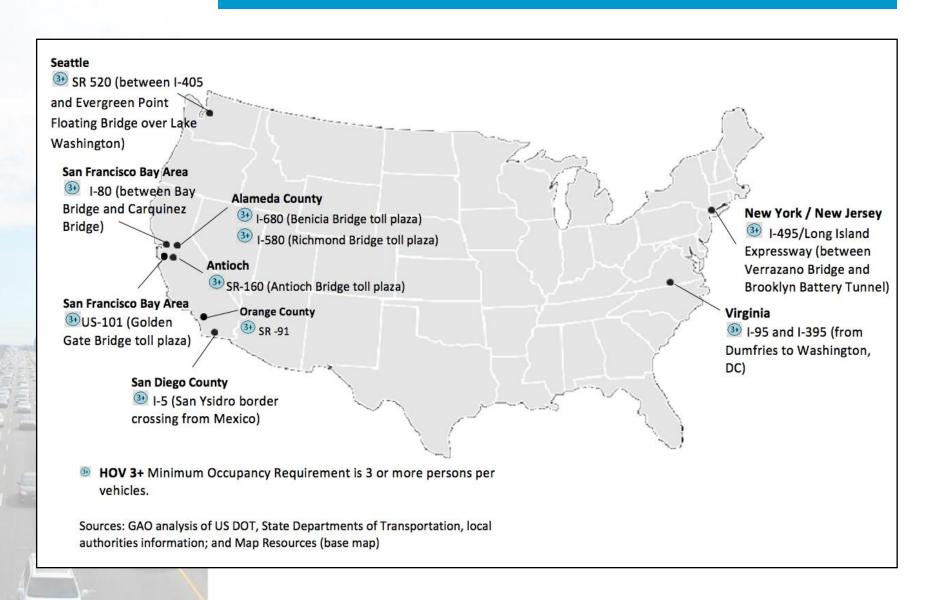
Number of Vehicles to Carry 45 People





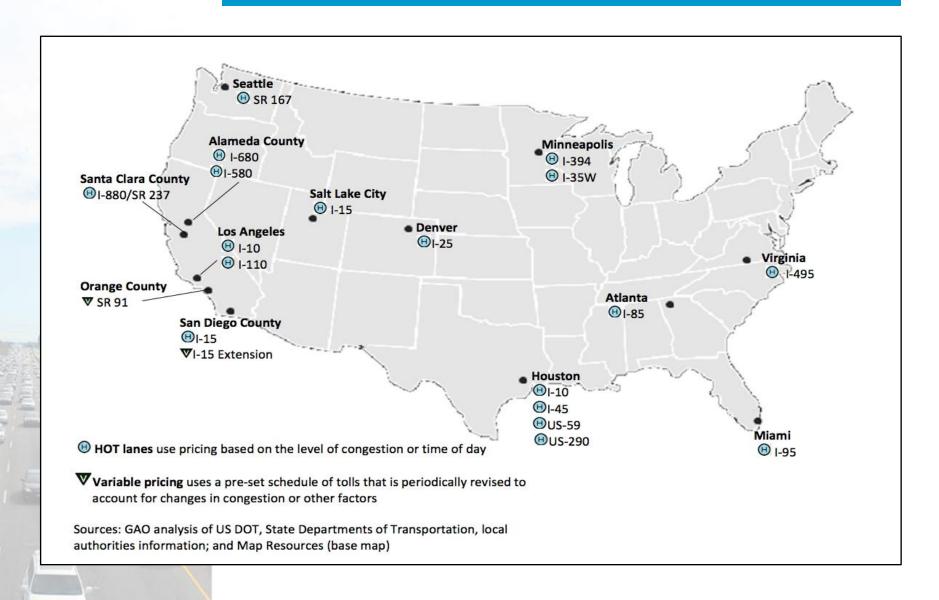


HOV 3+ Systems in the U.S





Existing Priced Facilities in the US (2013)





Current Activities

- Working with FHWA on acceptable remedies.
- 2012 Degradation Report.
- Regional Transportation Plan/Sustainable Communities
 Strategy (2012-2035).
- District 12 HOV Assessment Study.
- Orange County Managed Lane Feasibility Study.
- SCAG Regional Express Lane Network Study.
- District 12 Managed Lane Public Participation Contract.
- I-405 Managed Lanes Project Study Report (Orange County).
- I-405 (OC Line to LAX) HOV to HOT Feasibility Study.
- Deputy Directive 43-R (DD-43R) Managed Lanes.
- New Managed Lanes Manager.







THANK YOU

QUESTIONS OR CONCERNS?

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Additional information:

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