

Presentation Overview

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- Background
- Alameda County LOS Monitoring Program
- Commercial Travel Time Data
- Highlights of 2014 Monitoring Results
- Summary of Trends Observed
- Conclusions and Next Steps

Background: CMP Legislation

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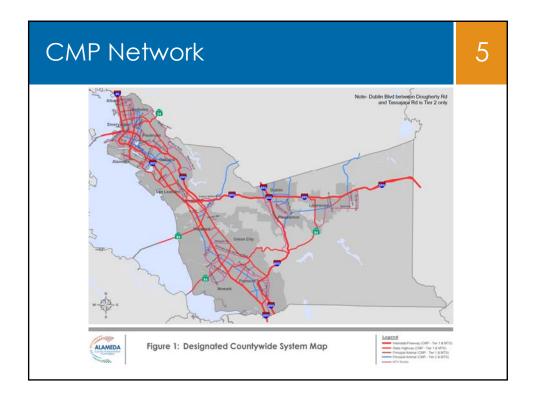
- State CMP legislation requires the CMAs to:
 - Designate a CMP roadway network
 - Monitor the level of service
 - ➤ If the LOS Standard (LOS E) is not met, develop deficiency plans to improve the deficient segment.
- As Alameda County's CMA, Alameda CTC has been performing the LOS Monitoring on the CMP network since 1991

2014 LOS MONITORING

Alameda County LOS Monitoring Program

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- Forward looking program expanding beyond legislative requirements
- Network Two Tiers (323 miles)
 - Tier 1 (232 miles) for conformity (freeways, state routes and principal arterials)
 - Tier 2 (90 miles) for informational purpose (additional Arterials and Major Collectors since 2012)
 - Additional monitoring –HOV and three Bay crossing bridges



Alameda County LOS Monitoring Program

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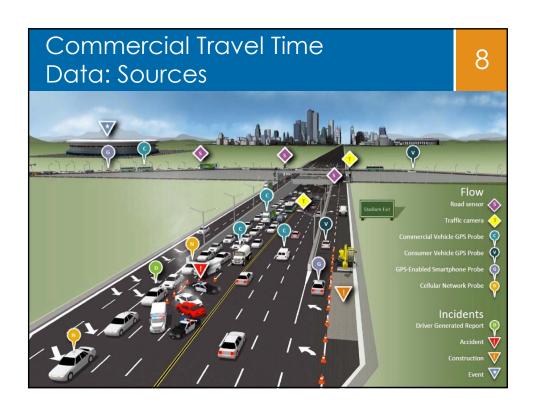
- Data Collection Methods
 - Floating Car Surveys
 - Six runs by someone driving through the regular traffic to estimate travel time
 - Typically follows the rules of the road
 - Challenges
 - Resource intensive for a very small amount of data
 - Potential manual error
 - Commercial Travel Time Data (INRIX is used)

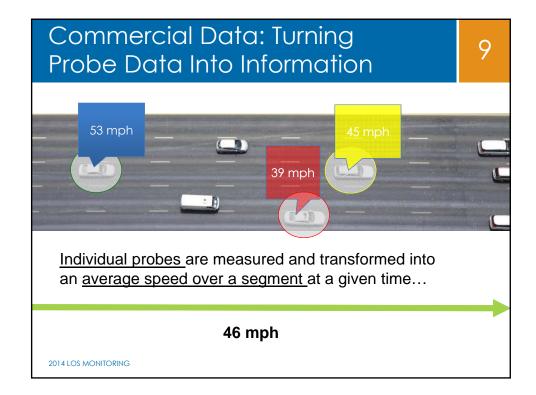
Data Collection Methods

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CMP Network	Miles/# Number	2012 Data Collection	2014 Data Collection
Tier 1 Freeways	134	Floating Car Surveys	Commercial Data*
Tier 1 Arterials	98	Floating Car Surveys	Floating Car Surveys
Tier 1 Ramp Connectors	23 ramps	Floating Car Surveys	Commercial Data*
Tier 2 Arterials	90	Floating Car Surveys	65 miles INRIX/25 miles Floating Car Surveys
Bay Crossing Bridges	3 bridges	From Caltrans/MTC as available	Commercial Data
HOV/Express Lanes	84 (one way)	Not Monitored	Floating Car Surveys

* - data for one segment collected using floating car surveys





Benefits and Challenges of Commercial Data

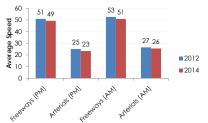
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- Benefits
 - Greater accuracy
 - Current approaches not statistically sound
 - More vehicles x more times x more days
 - o Improved reasonableness found in 2014 from commercial data
 - Deeper insights
 - Understand reliability
 - Reduced costs
 - Travel time runs are expensive
 - Probe data is cheaper for much greater volume
- Challenges
 - Not adequate coverage on arterials
 - Exclusive HOV data not available

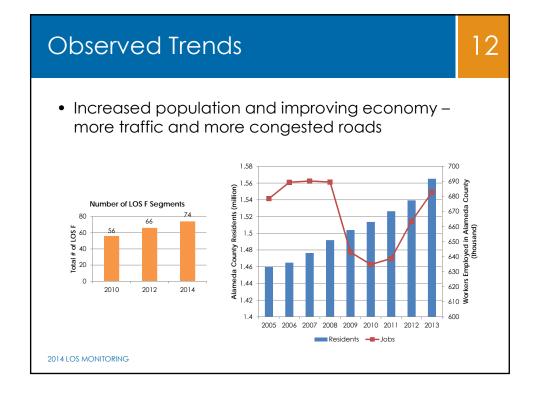
2014 LOS Results - Highlights

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- General decline in speed between 2012 and 2014
 - Likely due to a combination of effects of improving economy and construction activities
 - Key points to consider in reviewing results
 - > Improving economy
 - Construction underway and completed since 2012
 - Change in data collection methodology



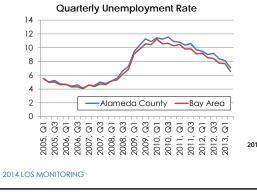
- Completed projects since 2014 showed improved network performance
 - Caldecott Tunnel
 - Hayward Loop

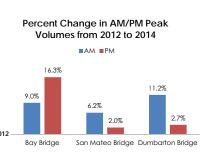


Observed Trends

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- Economic recovery slow in Alameda County compared to the region
 - increased commute trips to other counties more congestion on county regional connectors





Congested Segments in 2014 and
Construction

L-880/5th Street
Construction

SB 1-880
HOV Lane

SR92 Ramp
Metering
Union City

SR92 Ramp
Metering
Union City

ALAMEDA COUNTY
North Segment

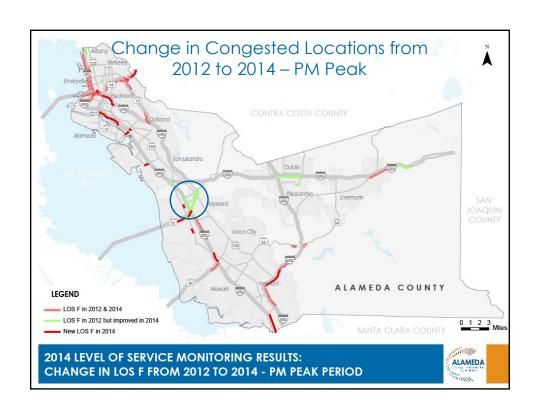
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COUNTY

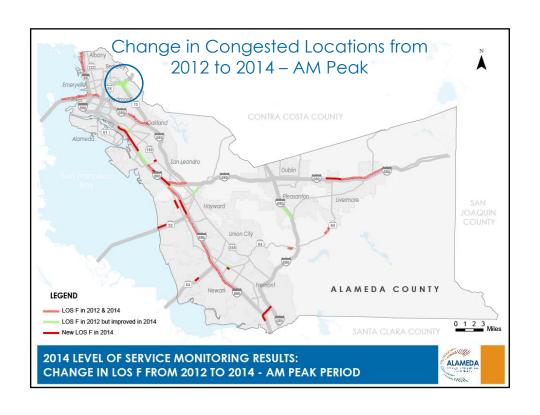
SAN ACLARA COUNTY

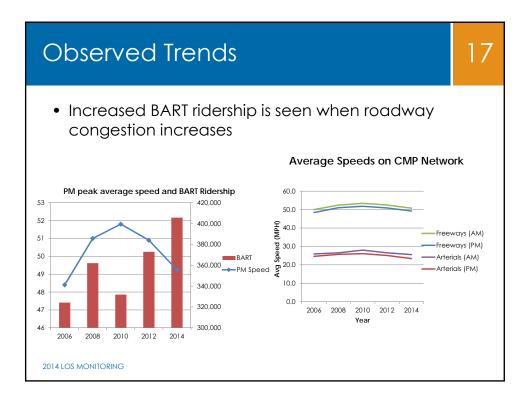
SAN ACLARA COUNTY

12 3 Miles

2014 LEVEL OF SERVICE MONITORING RESULTS:
LOS F SEGMENTS - AM & PM PEAK PERIODS







Planned Improver	Helli?	
	nts Showing LOS F in 2014 Potential Improvements	
Construction Underway		
I-80 segments	I-80 ICM project	
I-880 segments in the North and Central County	I-880/5 th Avenue Retrofit SB I-880 HOV lane from Hegenberger to Marina Blvd	
I-580 in East County	I-580 HOV/Express Lanes	
In Project Development Phase/Programmed/Planned/B	eing Studied	
I-880 Segments	I-880 Integrated Corridor Management I-880 Express Lanes	
Northbound I-680	HOV/HOT lane implementation	
Eastbound I-580 in East County	Eastbound truck climbing lane	
Eastbound SR 84	Route 84 Expressway Safety Improvements by Caltrans (SHOPP) Truck Climbing Lanes on Pigeon Pass Improvements identified in the Triangle Study	
2014 Transportation Expenditure Plan	Supports many projects and programs across the county	

Modal Plans: Multipronged Comprehensive Solutions

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- Countywide Modal Plans will study the county's multimodal transportation issues comprehensively to effectively address them
- Goods Movement Plan
 - Will also study and address the key congested goods movement corridors – I-880 and I-580



2014 LOS MONITORING

Modal Plans: Multipronged Comprehensive Solutions

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- Transit Plan
 - Will study all transit operators in the county comprehensively and develop strategies
 - ➤ Improving transit trips is key to addressing congestion issues for sustainable transportation
- Multimodal Arterial Plan
 - Arterials support all modes.
 - This plan will study the county major arterials to identify strategies and solutions for improving multimodal connectivity, access and mobility

Next Steps

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- July 11, 2014- Deficiency Determination
- July 2014 PPLC and Commission presentation
- September 2014 Final Report
- 2014 CMP Update will explore -
 - Expanding CMP network including major rural corridors for informational monitoring
 - Enhanced Use of Commercial Data

2014 LOS MONITORING

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Questions?

