



# Current Traffic Conditions and Upcoming Needs on Highway 101, Interstate 580 and Highway 37



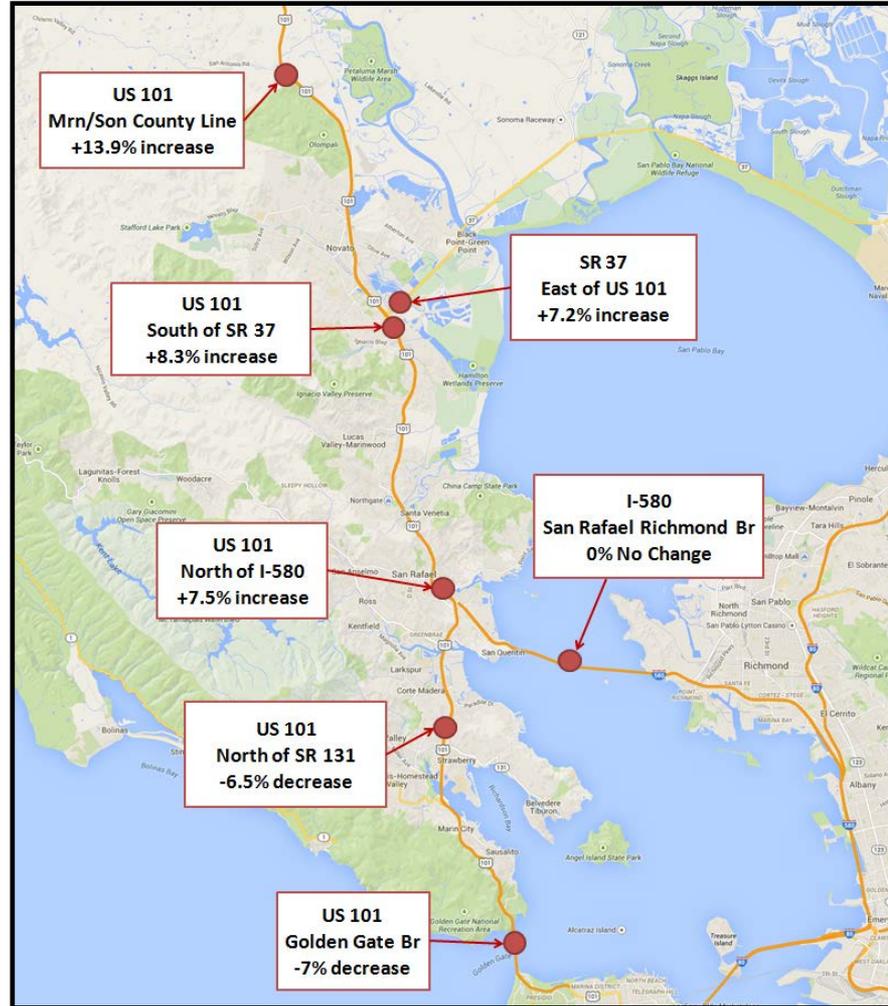
Prepared For: TAM Citizens Oversight Committee  
Date: November 7, 2016



## PRESENTATION OUTLINE

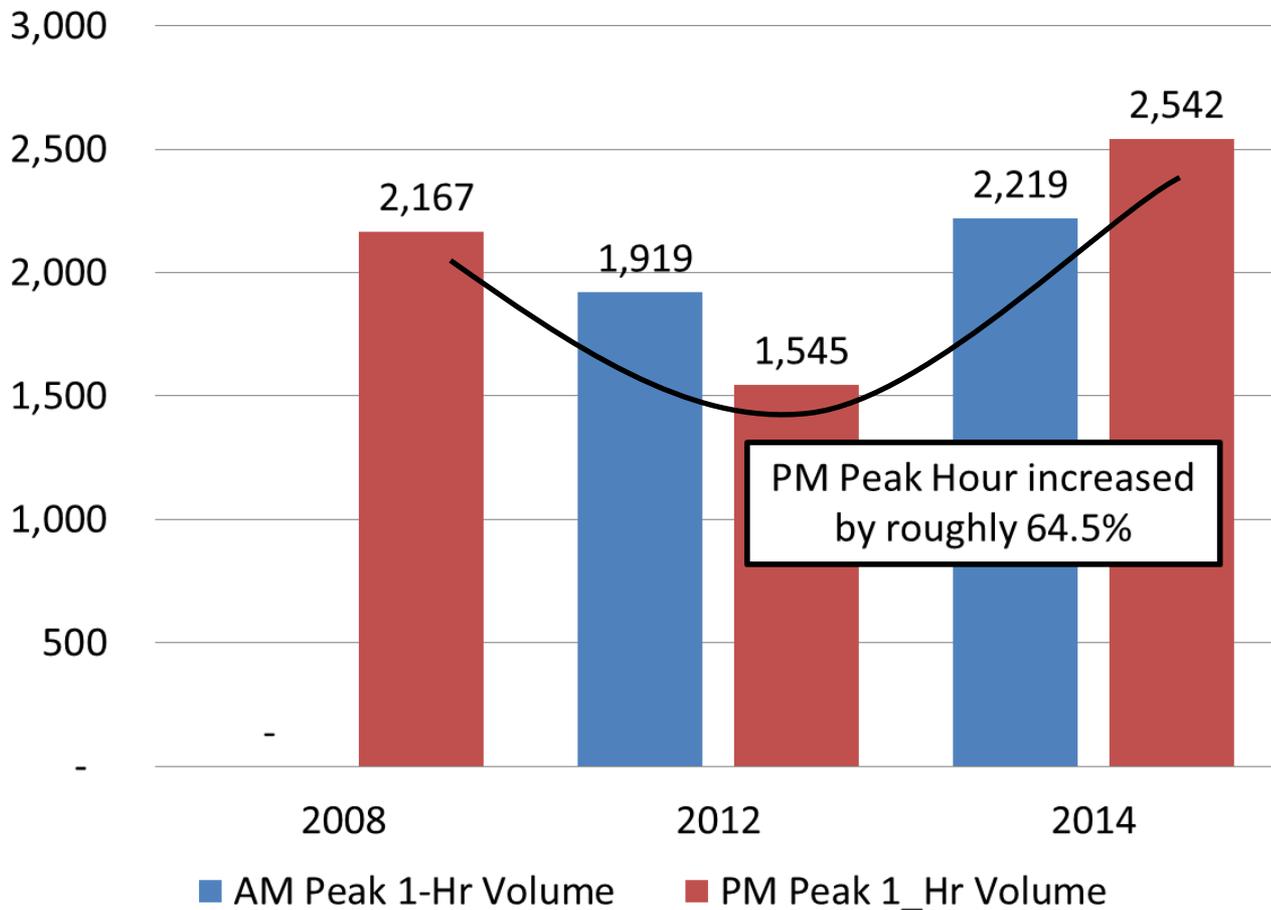
1. Mobility and Congestion on our Highways
2. Ongoing Investments in the Highway Corridor
3. Needs Identified as Strong Candidates in earlier RTP's
  - a. Mainline US101 & I580
  - b. Interchanges
  - c. Local Arterials
4. Potential Improvements to Address Traffic Congestion
5. Other Issues Affecting Transportation

# Average Annual Daily Traffic Percentage Change (Year 2008 to 2013)



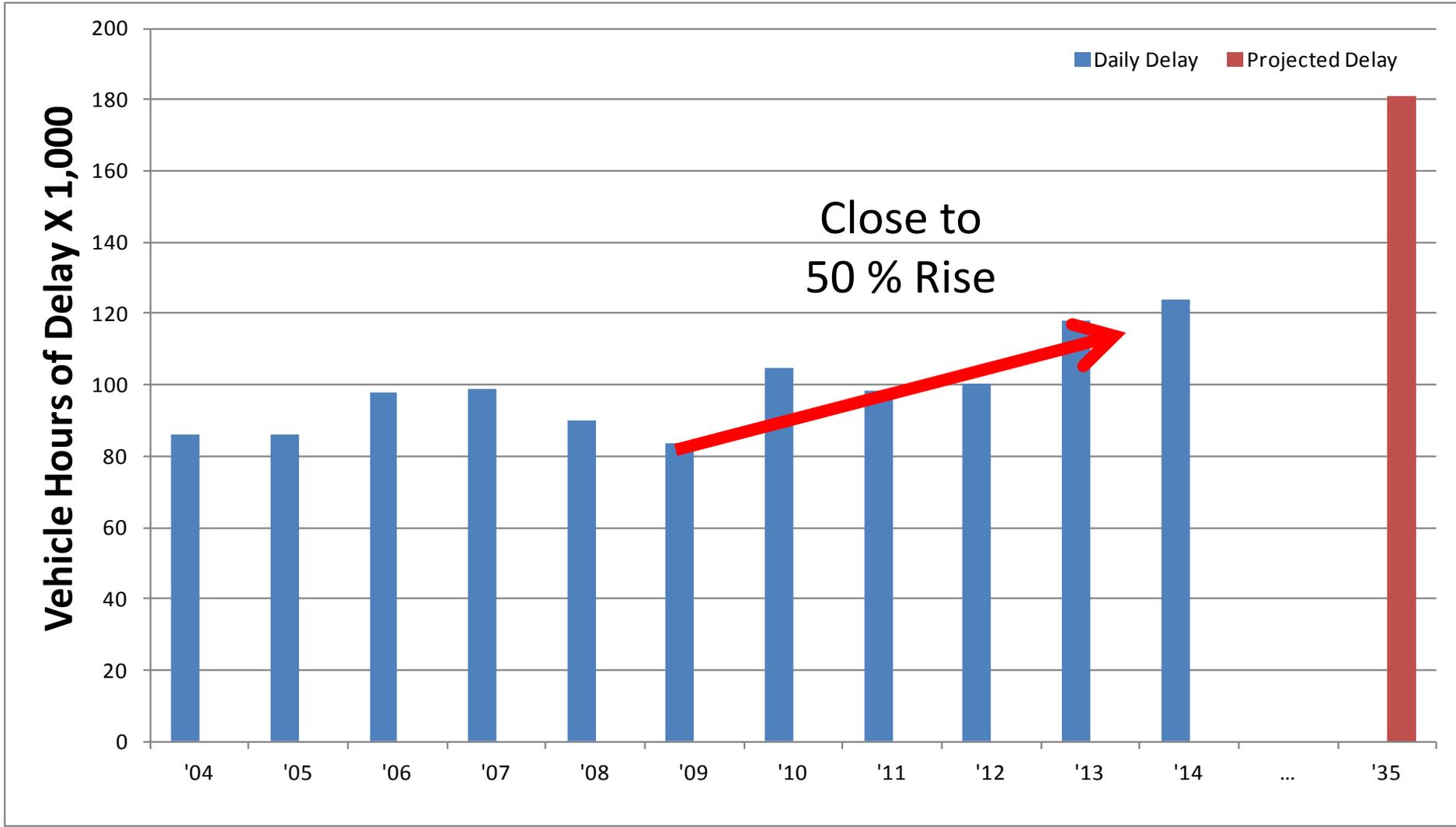


## 2nd Street - From Hwy 101 to Marquard St (D St)

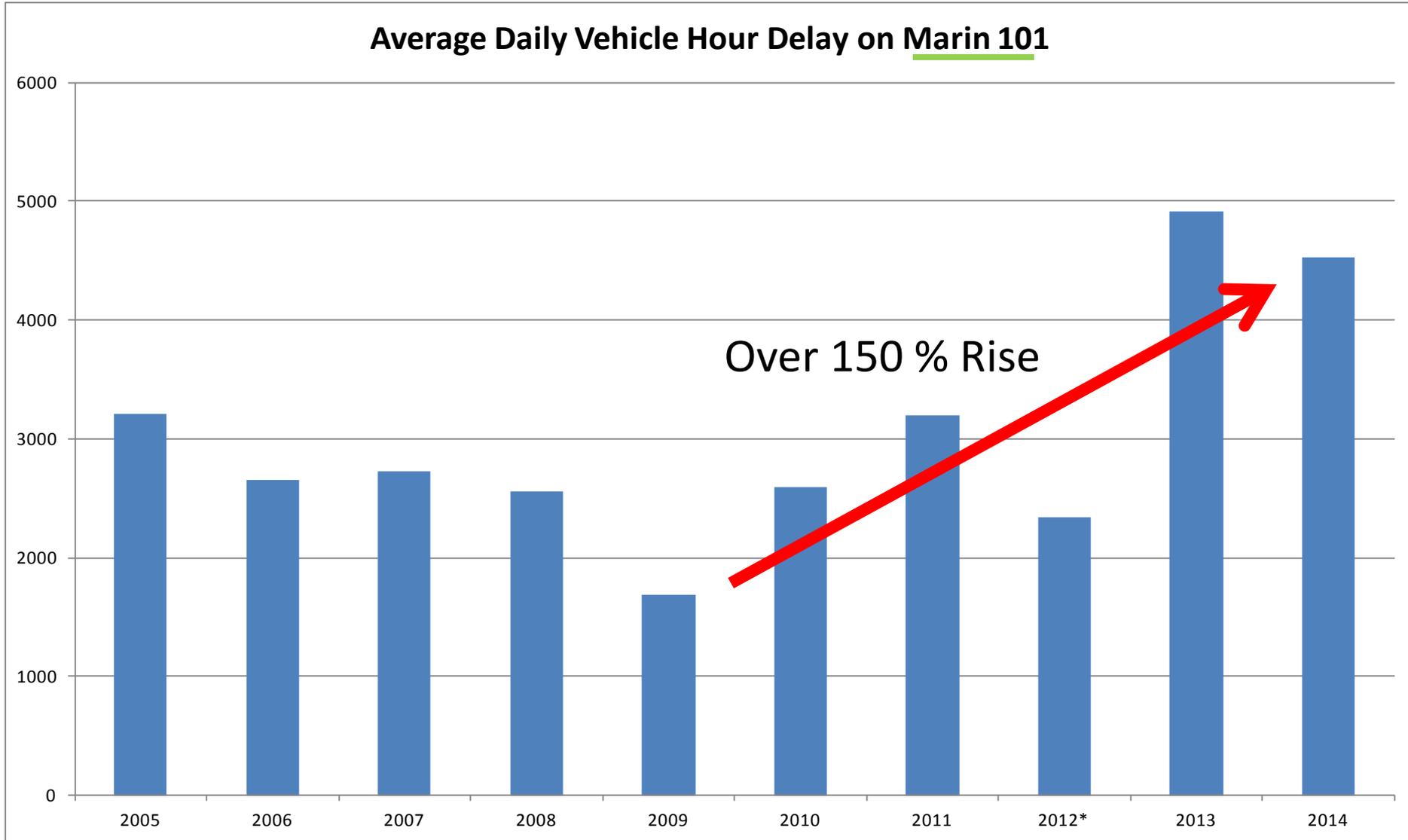


# Congestion Trends

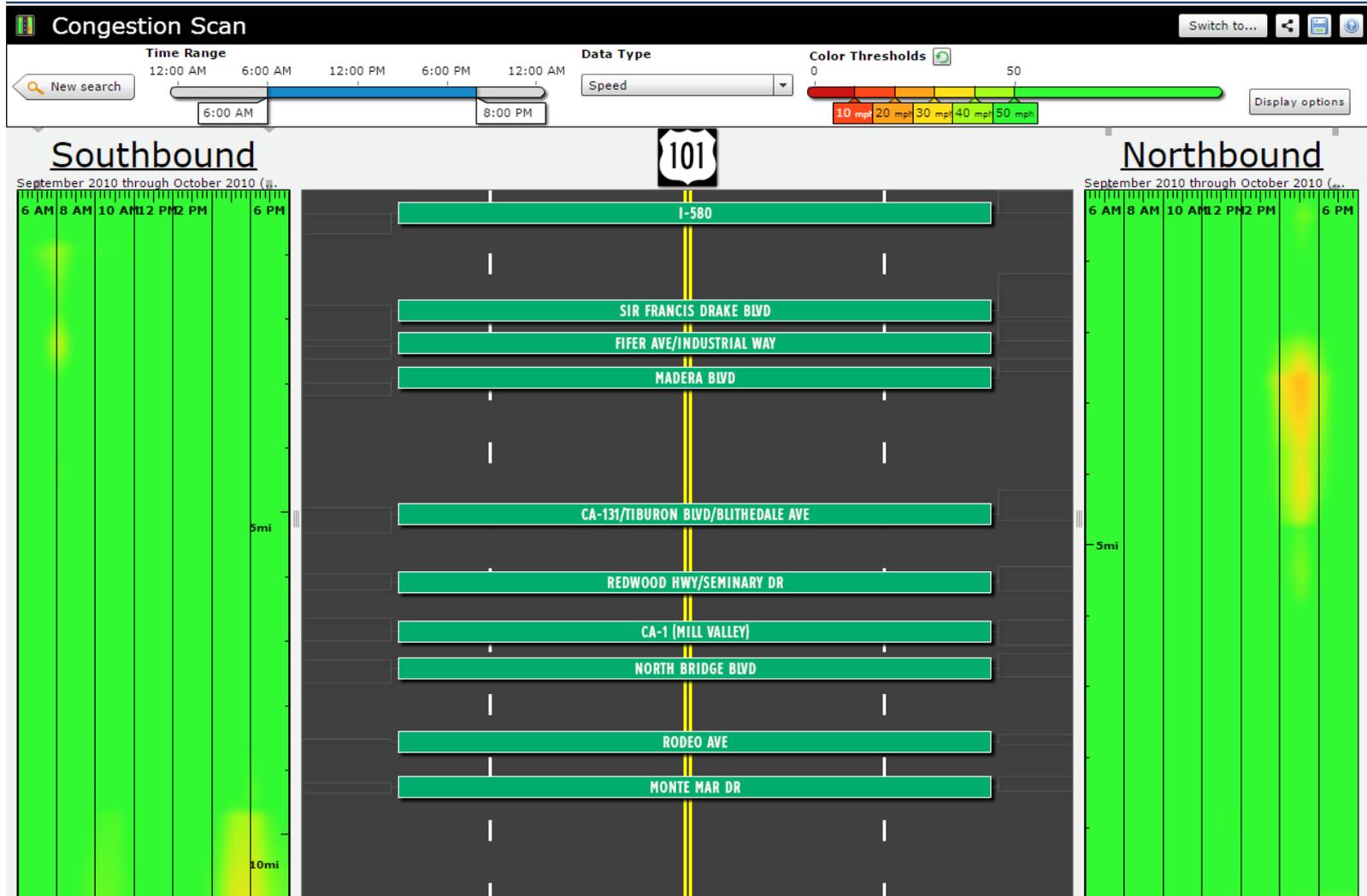
(All 9 Bay Area Counties)



## Average Daily Vehicle Hour Delay on Marin 101



# Speeds on US 101 (Sausalito to SR 580) Tue, Wed, Thur of Sept & Oct of Year 2010

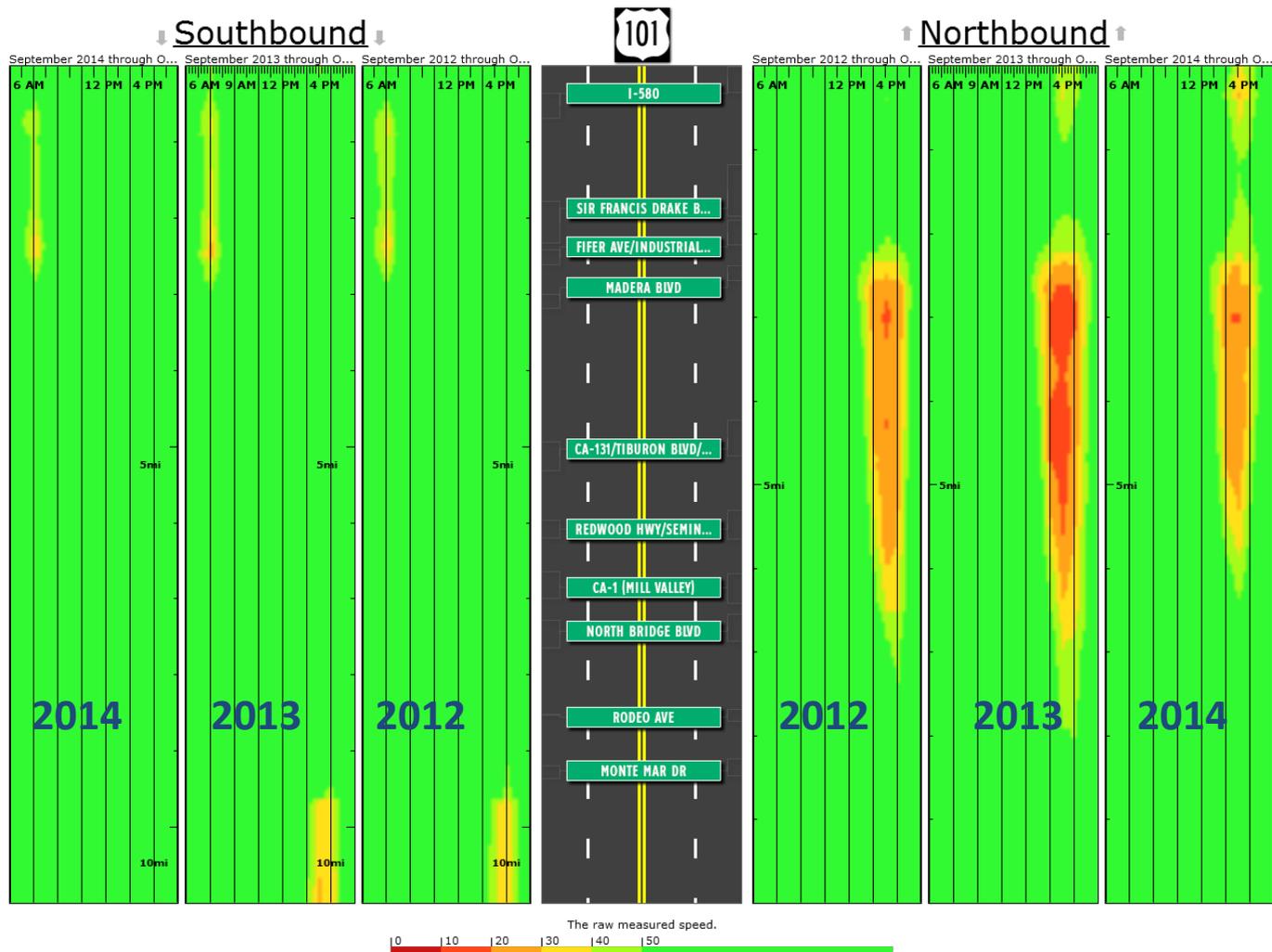


Source: INRIX

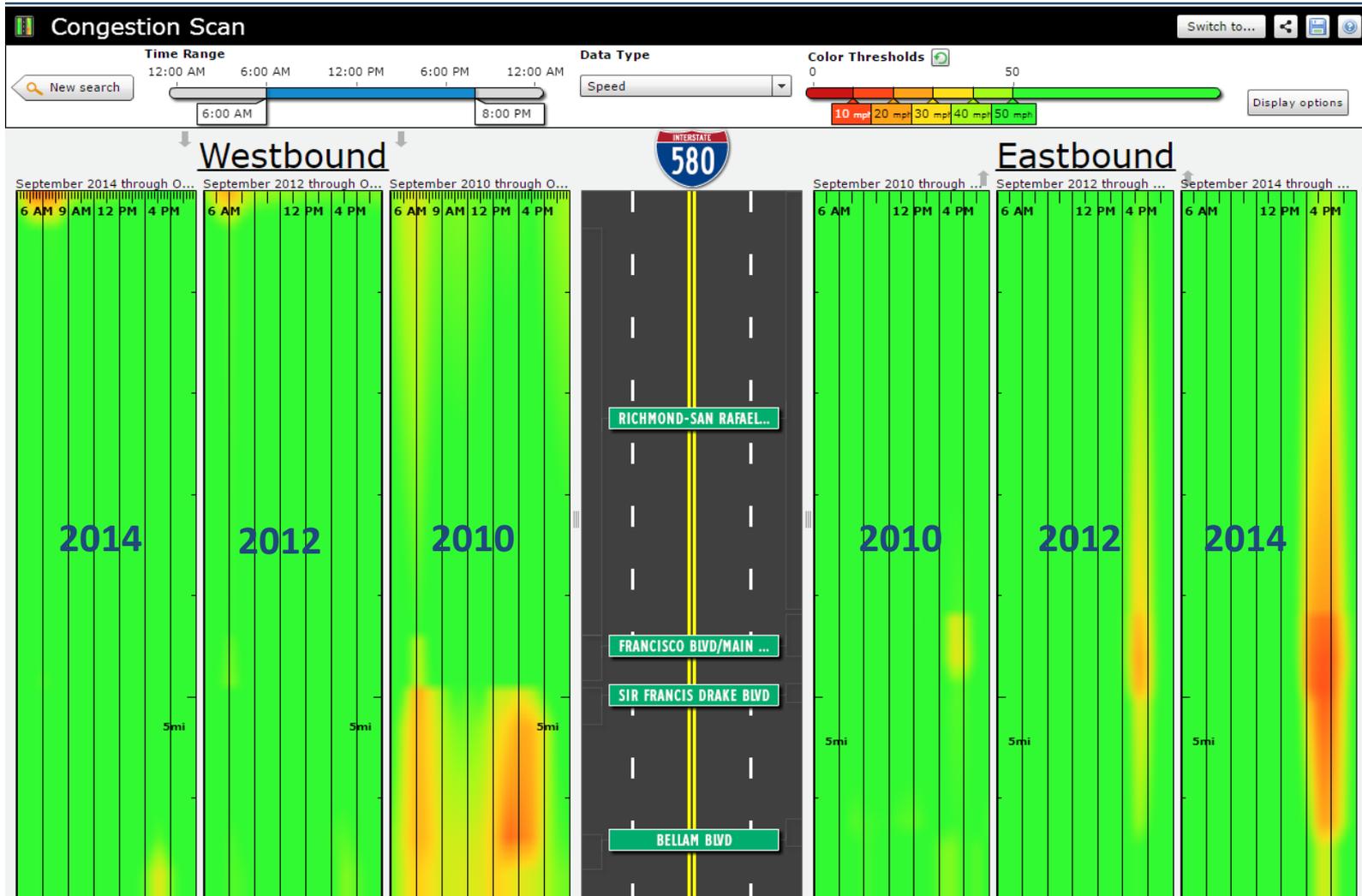
# Speeds on US 101 (Sausalito to SR 580) Tue, Wed, Thur of Sept & Oct of Year 2012-2014

## Speed on US-101 between Sausalito Lateral and I-580

Averaged by 1 hour for September 2012 through October 2012 (every Tue, Wed and Thu), for September 2013 through October 2013 (every Tue, Wed and Thu), and for September 2014 through October 2014 (every Tue, Wed and Thu)



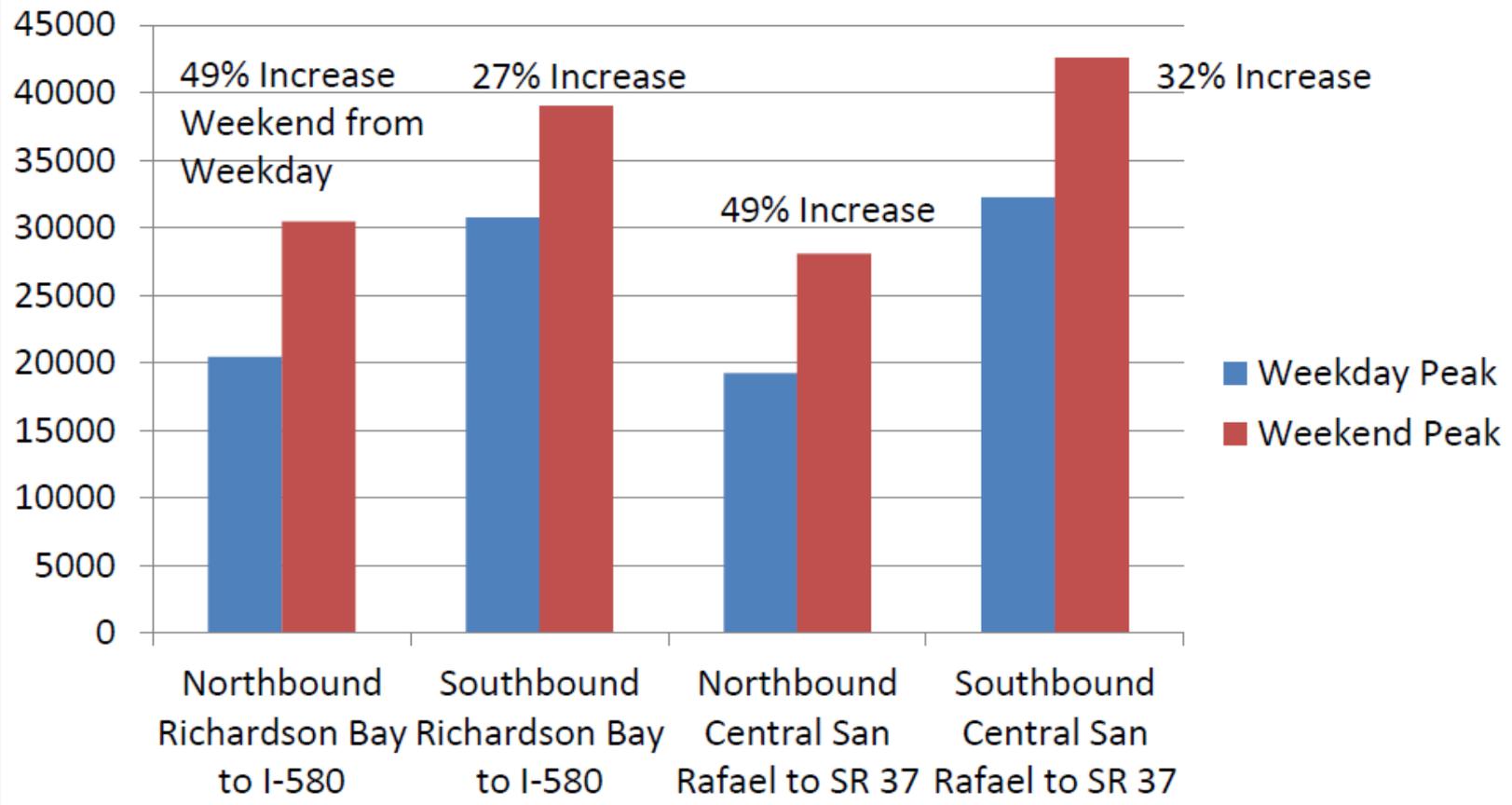
# Speeds on Hwy 580 (Hwy 101 to RSR Bridge) Tue, Wed, Thur of Sept & Oct of Year 2010, '12, '14



Source: INRIX



## Comparison of Weekday 8-Hour Peak to Weekend 8-Hour Peak Total Vehicle on U.S. 101





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# Ongoing Investments in the Highway Corridors

Mainline US101 & I-580

Marin Sonoma Narrows





# Ongoing Investments in the Highway Corridors

## Mainline US101 & I-580

Richmond San Rafael Bridge – Peak Period Use Lane





# Ongoing Investments in the Highway Corridors

## Mainline US101 & I-580

Freeway Performance Initiative – Ramp Metering





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# Needs Identified as Strong Candidates in Earlier RTP's

## Mainline US101 & I-580

Marin Sonoma Narrows

Improvements to meet new freeway standards and HOV lanes





# Needs Identified as Strong Candidates in earlier RTP's

## Mainline US101 & I-580

### Greenbrae Corridor Operational Improvements to US101





## Needs Identified as Strong Candidates in earlier RTP's Interchanges

- US101 / Tiburon Blvd – East Blithedale Interchange
- US101 / Lucas Valley
- US101 / Atherton





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## Potential New Improvements on Our Highway System to Address Traffic Congestion

Connector Improvements to the RSRB using Sir Francis Drake Blvd





# Potential New Improvements on Our Highway System to Address Traffic Congestion

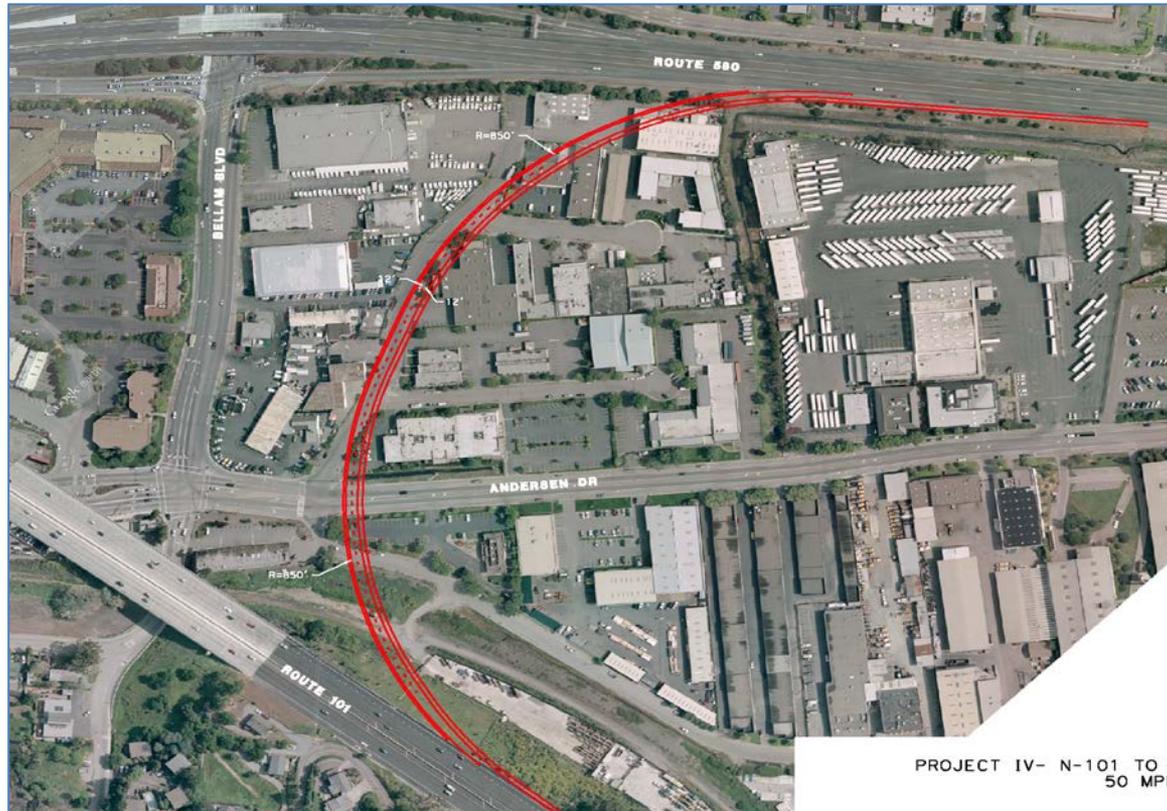
Connector Improvements to the RSRB using Bellam Blvd





# Potential New Improvements on Our Highway System to Address Traffic Congestion

I-580 / US101 Direct Freeway to Freeway Connector





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## Potential New Improvements on Our Highway System to Address Traffic Congestion and Sea Level Rise

### Highway 37





## Other Issues Affecting Transportation

### Marin County Park-n-Ride Commuter Parking Lots





# Current Activities and Upcoming Needs on Highway 101, Interstate 580 and Highway 37 Q&A



Prepared For: TAM Citizens Oversight Committee  
Date: November 7, 2016



# Needs Identified as Strong Candidates in earlier RTP's Interchanges

US101 / Lucas Valley Interchange  
Update Old Project Study Report





## Needs Identified as Strong Candidates in earlier RTP's Interchanges

Also considered in earlier RTP was the  
Improvements to the Atherton Avenue Interchange





## Other Issues Affecting Transportation

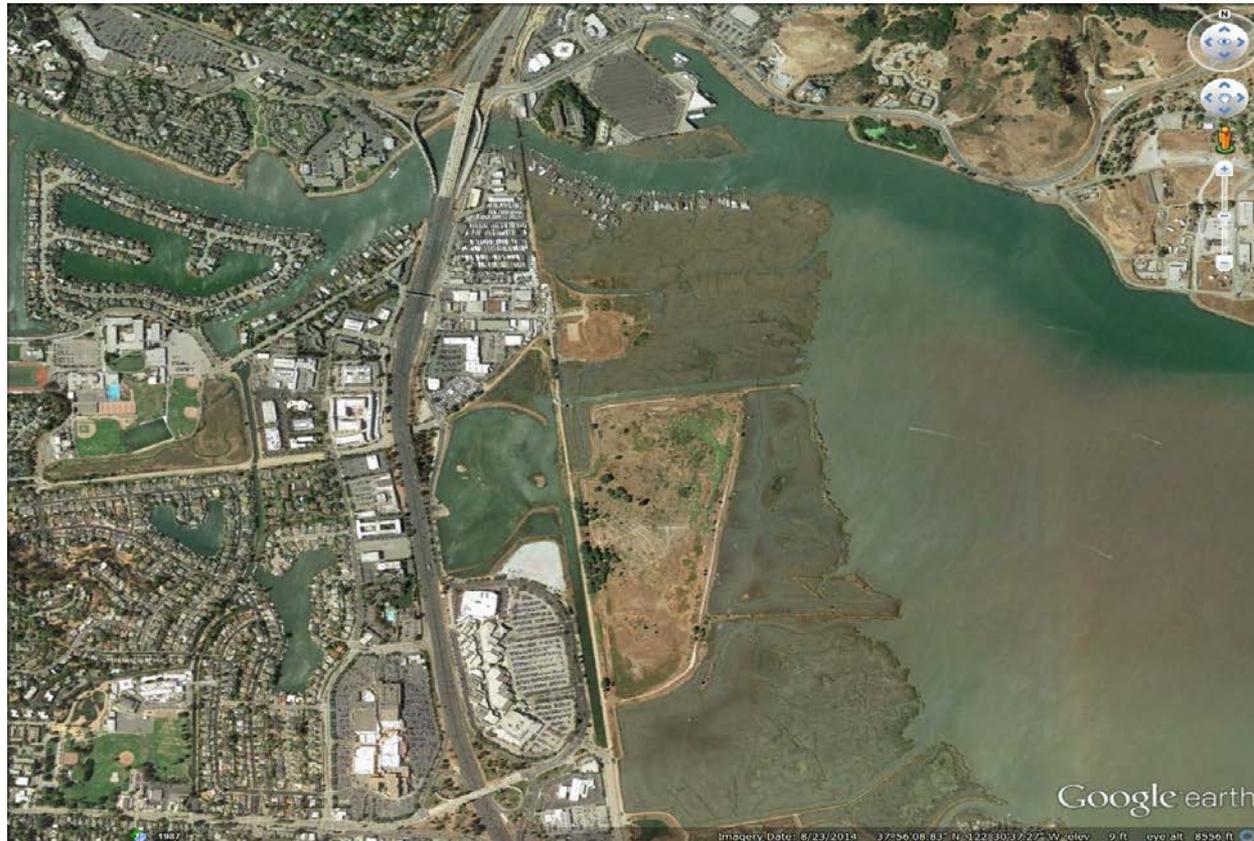
Impacts of Sea Level Rise on our Roadways





# Potential New Improvements on Our Highway System to Address Traffic Congestion

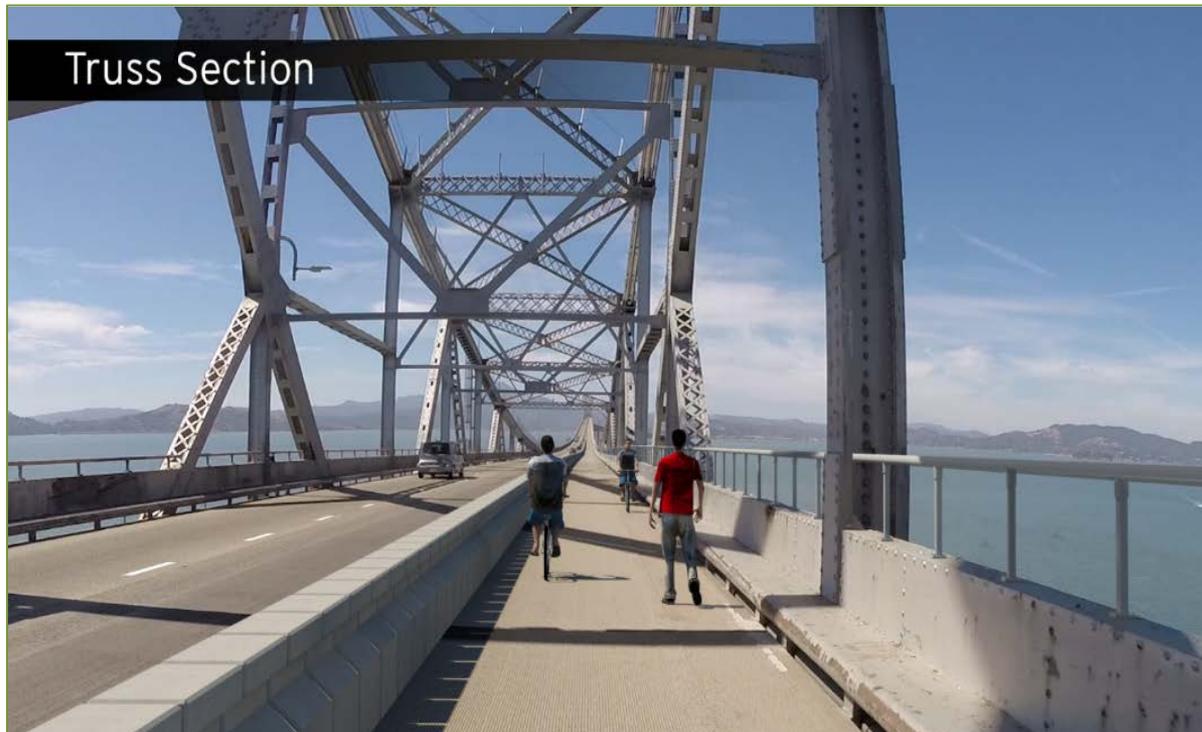
US101 Northbound Improvements to Sir Francis Drake Blvd





## Potential New Improvements on Our Highway System to Address Traffic Congestion

Multi-Use Bay Trail on the Richmond San Rafael Bridge  
Bicycle and Pedestrian Pathway Approach Needs





## **Needs Identified as Strong Candidates in earlier RTP's**

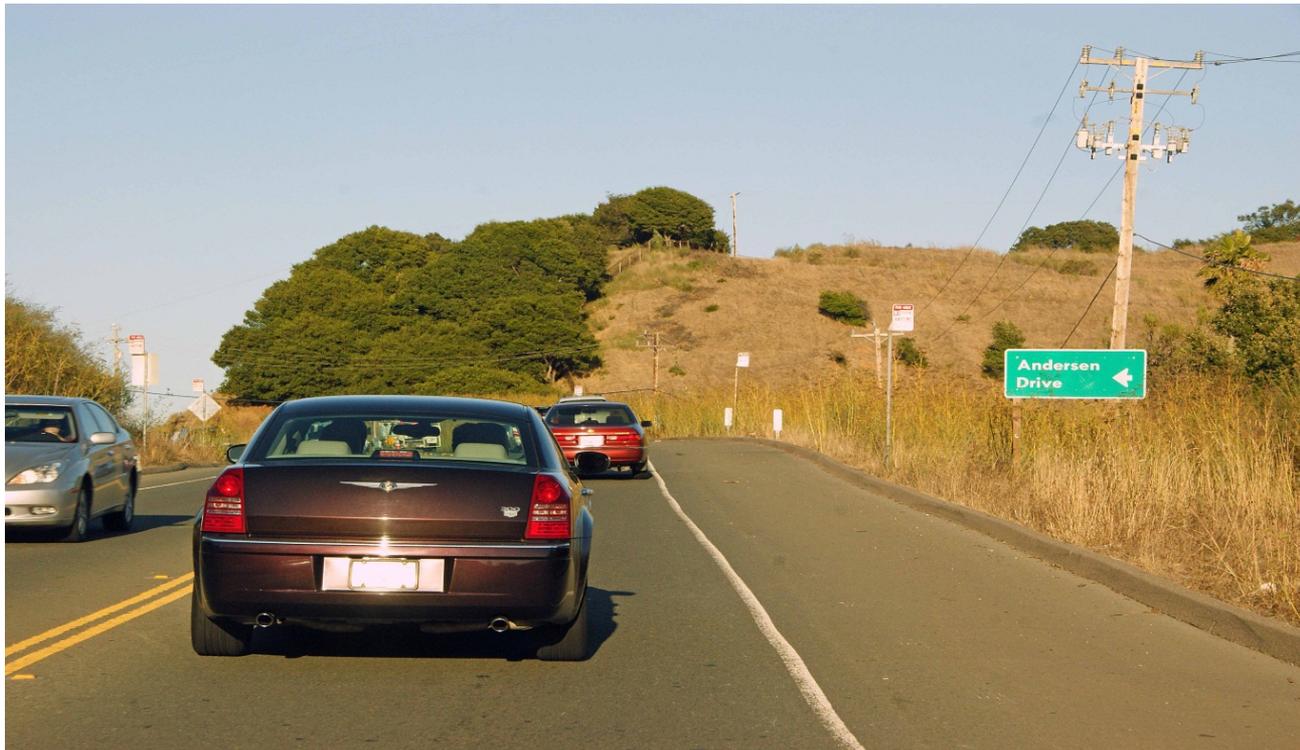
### **US101 - Local Arterial Improvements**

- Irwin Street in San Rafael
- Heatherton Street in San Rafael
- North San Pedro Road in San Rafael
- Manual T Freitas Parkway Street in San Rafael
- Miller Creek Road in San Rafael
- Novato Blvd in Novato



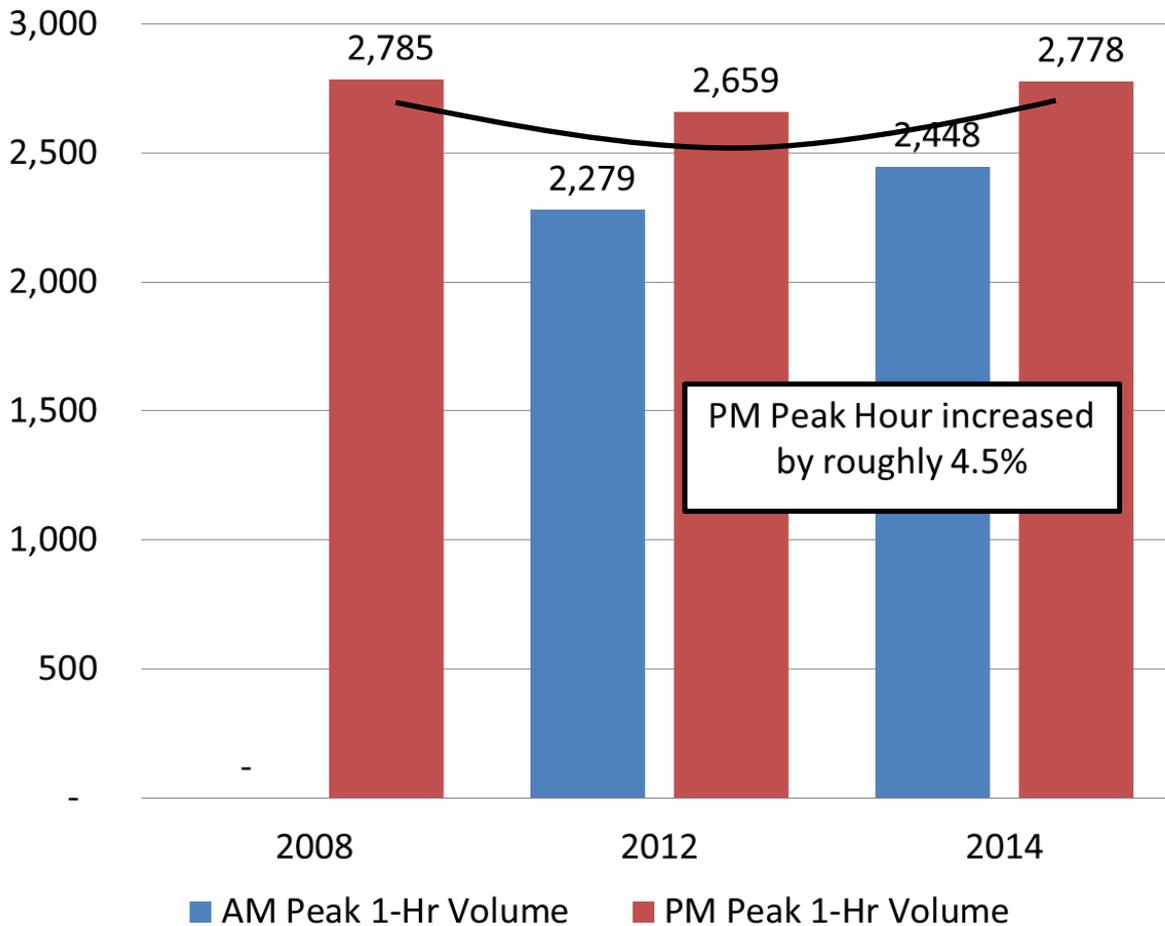
# Needs Identified as Strong Candidates in earlier RTP's Mainline US101 & I-580

I-580/ Sir Francis Drake Blvd  
Signalizing Andersen Drive for Safety





## Sir Francis Drake – From San Anselmo Ave to Red Hill Ave





## 2013 Marin State Highway Volumes Average Daily Traffic - Both Directions Location Selected Represents Highest Volume in Marin

