



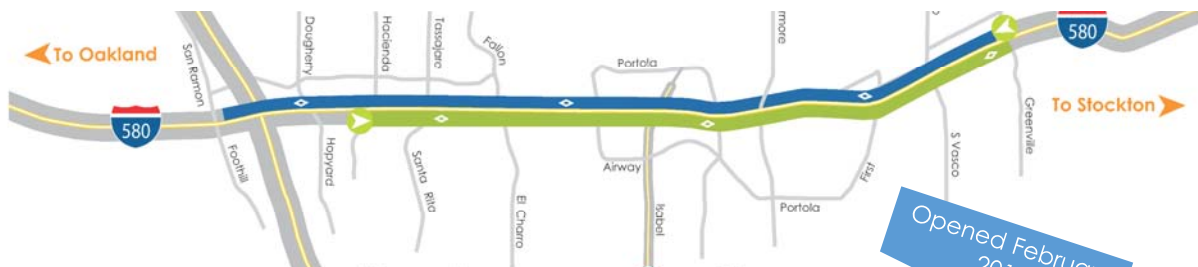
ALAMEDA COUNTY TRANSPORTATION COMMISSION

I-580 Express Lanes After Study Update



Kristen Villanueva, Senior Transportation Planner
 I-580 Express Lanes Policy Committee
 September 10, 2018

I-580 Express Lanes Corridor Project Details



Westbound: new express lane from Greenville Road to I-680 Overcrossing.

Eastbound: Converted the HOV lane from Hacienda Road to Greenville Road and added an express lane from El Charro Road to North First Street.

Eastbound truck climbing lane from Greenville Road to North Flynn Road opened on June 30, 2016

Opened February 2016



Evaluation Methodology

"Before" condition: Spring 2015

"After" condition: Spring 2018

Results presented for:

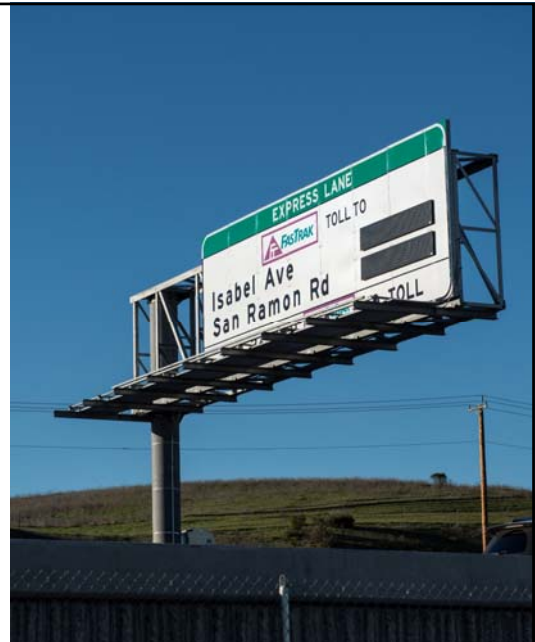
Westbound AM Peak Period –

5 am to 10 am

Eastbound PM Peak Period –

3 pm to 7 pm

Combination of mobile/sensor data
and field data collection



Summary of Findings

- Travel times are shorter and bottlenecks have improved despite significant increases in travel demand since 2015.
- The express lanes provide faster and more reliable travel times.
- A higher number of vehicles and people travel through the corridor compared to the "before" conditions.
- Growing congestion and intensifying bottlenecks on adjacent segments outside of the express lane facility affects express lane and overall corridor performance.

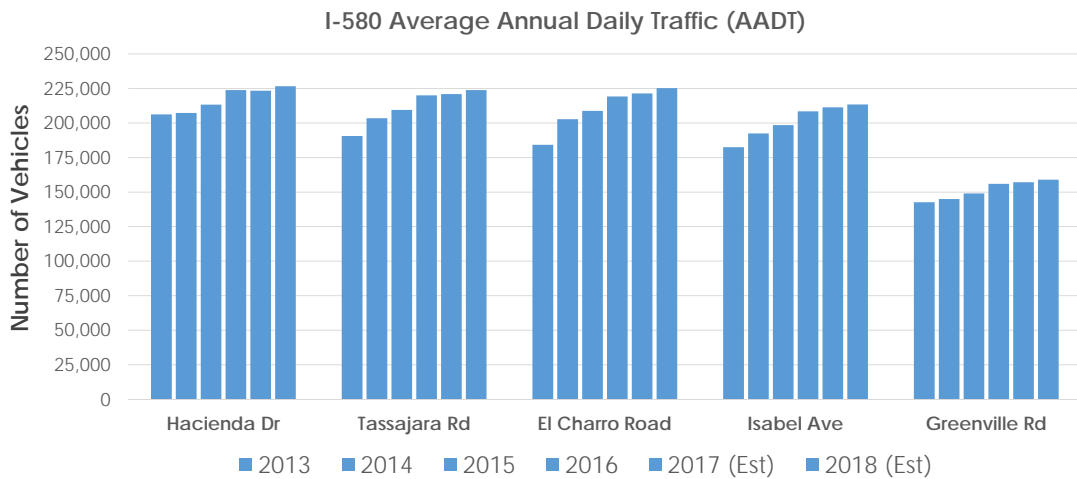


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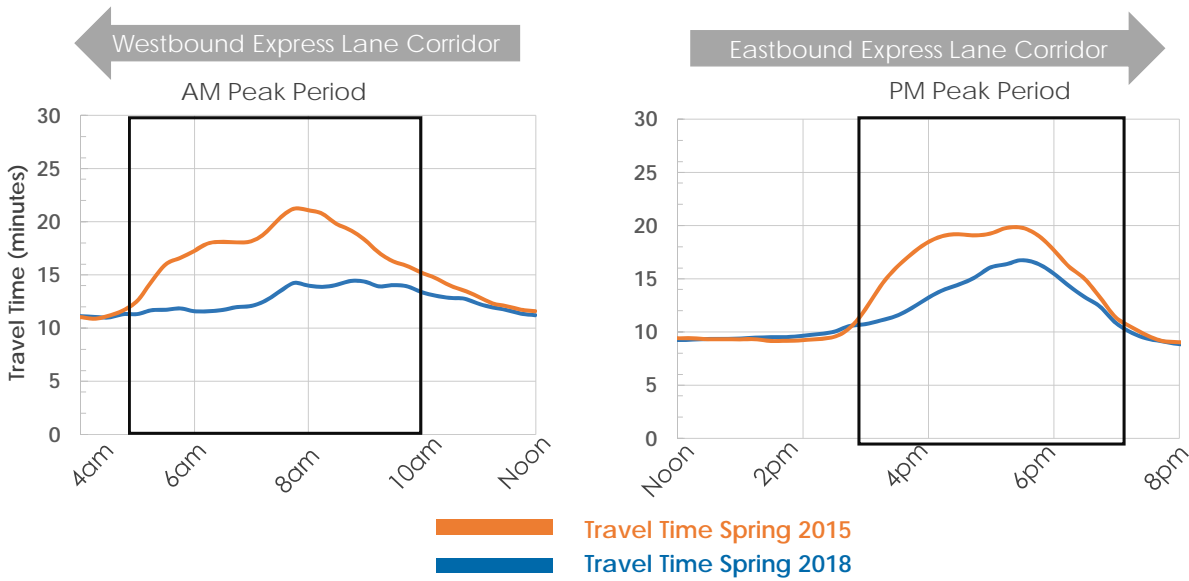
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Growth in Traffic Volumes across All Lanes

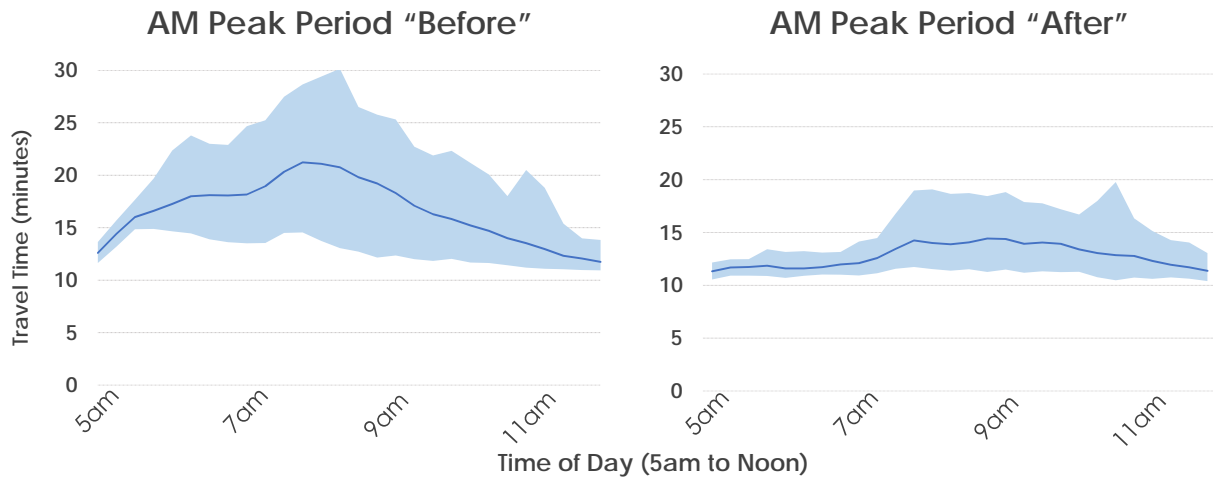


Before and After Travel Times (All Lanes)

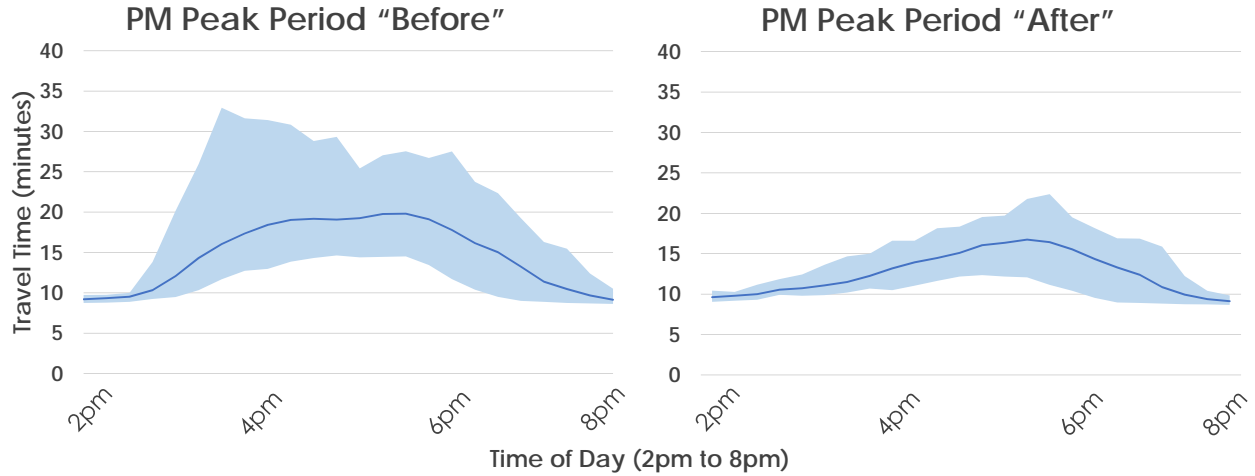


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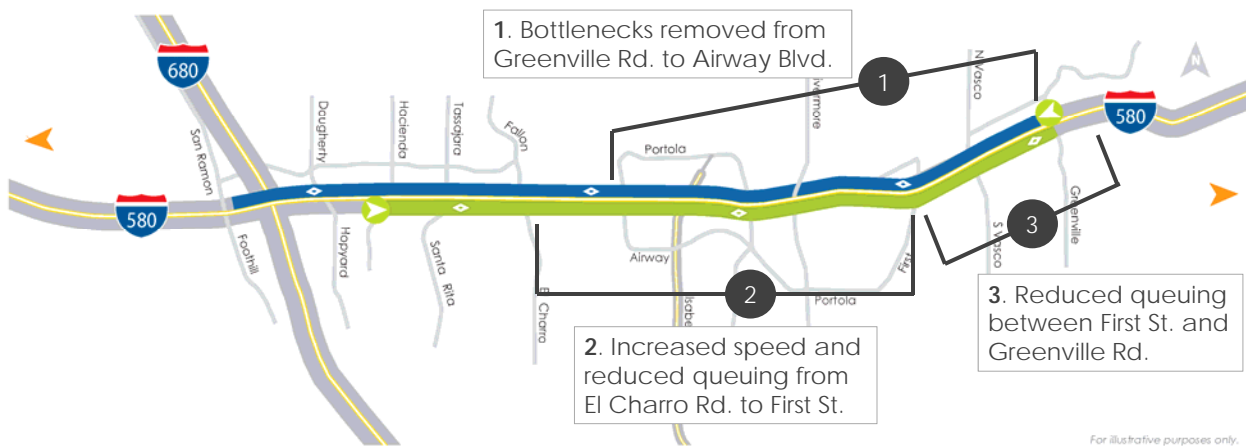
Before and After Reliability (All Lanes) Westbound Express Lane Corridor



Before and After Reliability (All Lanes) Eastbound Express Lane Corridor



Before and After Bottlenecks and Queuing

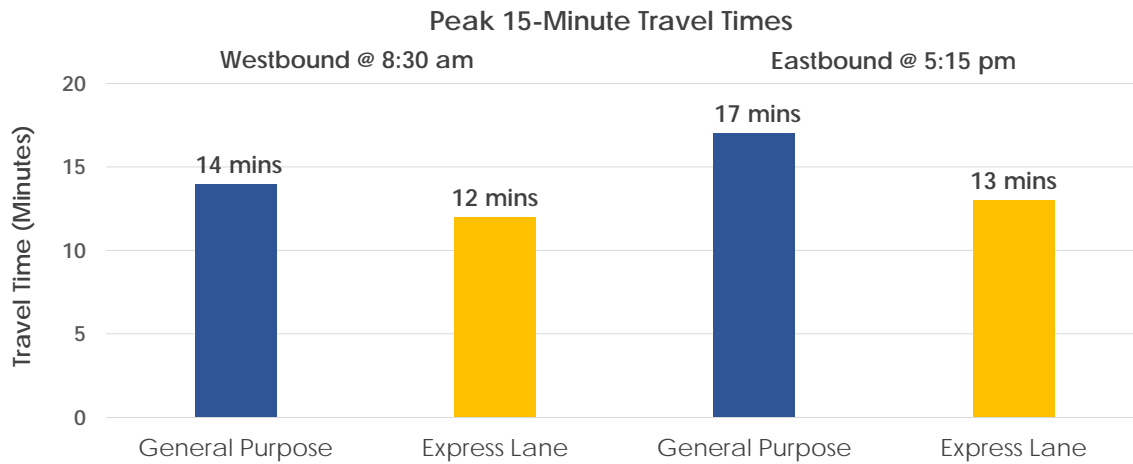


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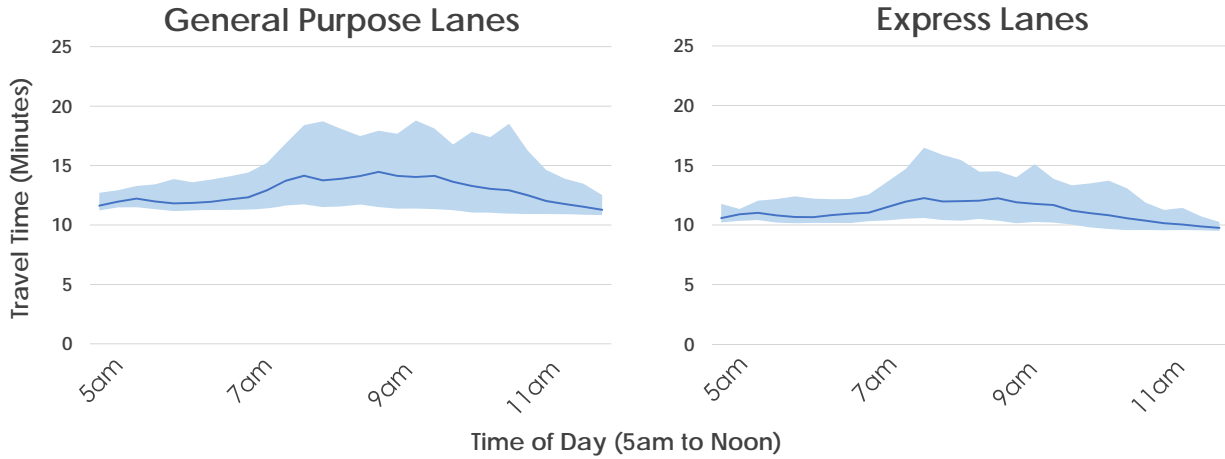
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“After” Travel Times – Express Lane vs. General Purpose



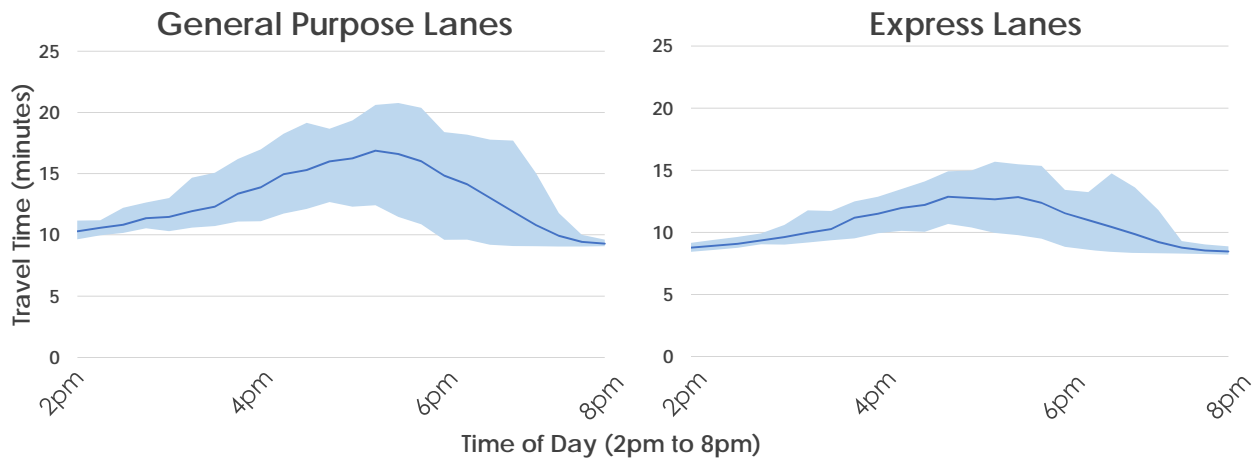
“After” Travel Time Reliability – Express Lane vs. General Purpose Lane – Westbound



I-580 EXPRESS LANES AFTER STUDY UPDATE

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“After” Travel Time Reliability – Express Lane vs. General Purpose Lane – Eastbound



I-580 EXPRESS LANES AFTER STUDY UPDATE

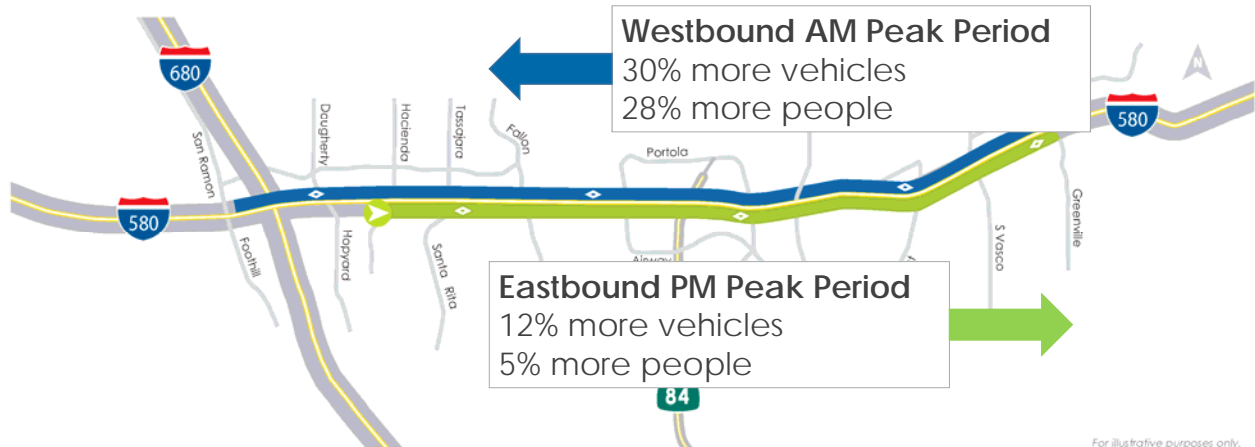
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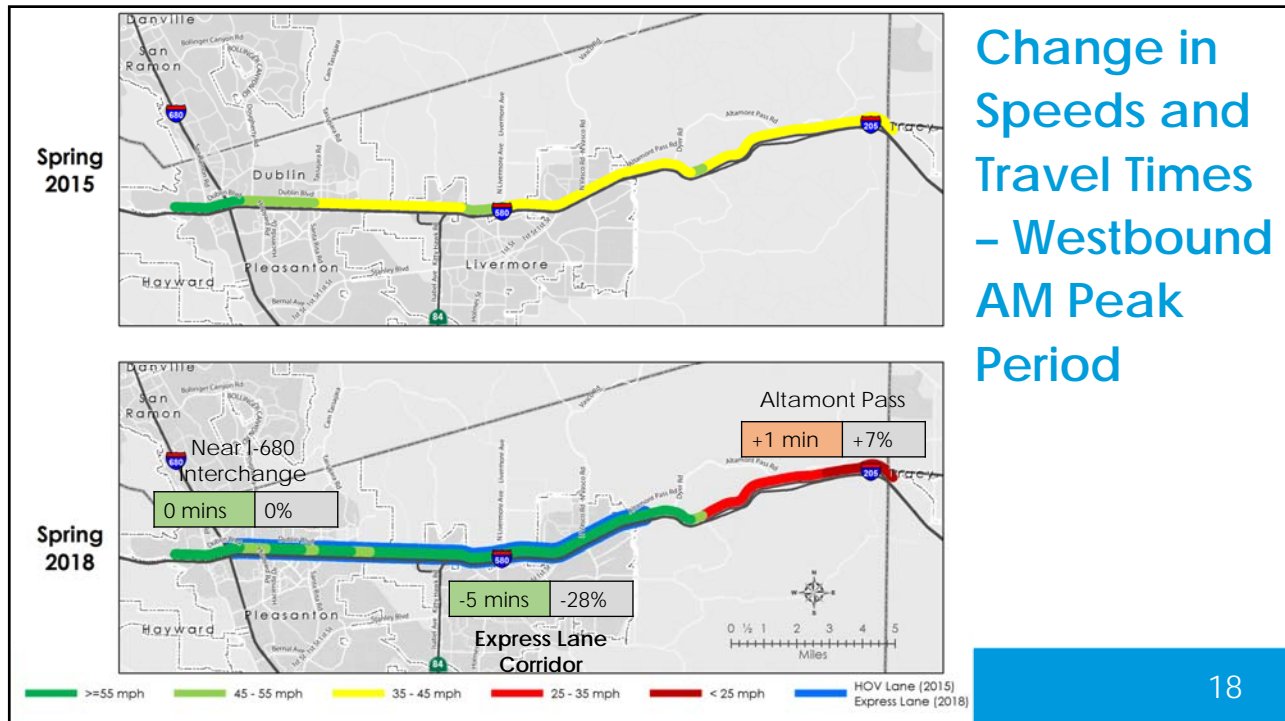


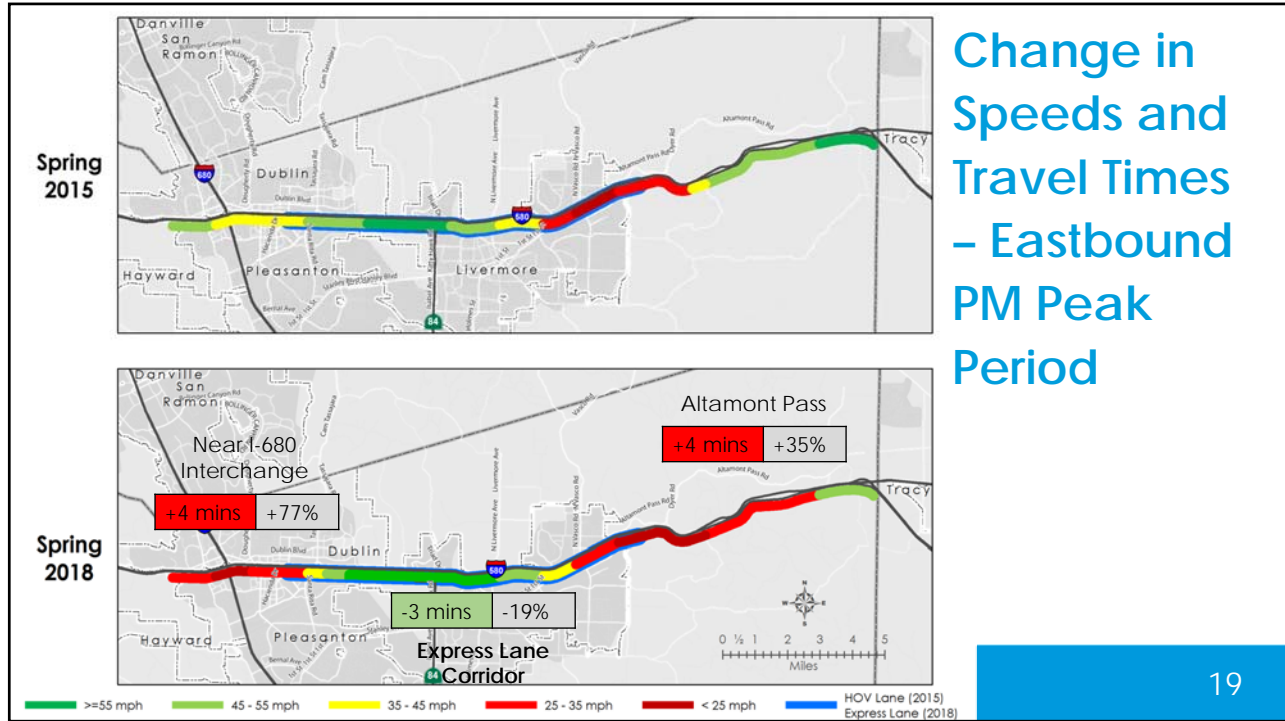
Vehicle and Person Throughput (All Lanes)



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I-580 Express Lanes After Study Conclusion

- Express lanes have improved mobility and travel options on I-580 in the Tri-Valley over a time period of significant increase in travel volumes.
- Expanding the express lane network is a congestion management strategy that could be explored on additional sections of I-580 and on other corridors in Alameda County.

Next Steps

- Receive feedback on the preliminary findings
- Finalize report for the Legislature
- Requesting Commission approval in October
- Send to Legislature in late Fall

