LA Metro Highway Programs

Emcee:
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Associate Vice President
KKCS

Speaker:
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Managing Executive Officer, Highway Program
LA Metro

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What’s the Problem?

Problems:
- Short Supply of Roads
- Incomplete Highway System
- Economic Prosperity
- More jobs
- Growing population
- Housing Allocations
- Homeownership affordability
- Sprawl
- Growing distances between homes and jobs

Considerations/Actions Needed:
- Understanding of the problem and the factors continuing its growth
- Connected and informed decision-making
- Coordinated planning
- Realistic and unbiased decisions/actions
- Validation of what is needed and what works

= Scattered O & D of trips
= Sustained Congestion
What’s the Problem?

Median Price of Single-Family Homes in So. Cal.

Counties attracting new development
What’s the Problem?

Major sources of traffic in and out of LA County
2005-2017 Means of Transportation to Work
LA County

Recession

Means of Transportation to Work
- Drove Alone
- Carooled
- Public Transpo...
- Walked
- Other Means

Sources: U.S. Census Bureau, American Community Survey 1-Year Estimates
Motor Vehicles Registered in the U.S., 1990-2017 (X1,000)

Registered Automobiles and Trucks in Los Angeles County
LOCAL AND TARGETED WORKER HIRE PROGRAM
For Active Projects in LA County
Source: LA County Dept. of PW as of 5/31/18
## 2017 Top U.S. Cities with the Longest Commutes

<table>
<thead>
<tr>
<th>Rank</th>
<th>City</th>
<th>Avg. Round Trip Commute (min.)</th>
<th>% Population commuting 2+ hrs round-trip per day</th>
<th>Car %</th>
<th>Public Transit %</th>
<th>Walk %</th>
<th>Bike %</th>
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<tbody>
<tr>
<td>1</td>
<td>Palmdale</td>
<td>85.4</td>
<td>35</td>
<td>91.4</td>
<td>2</td>
<td>0.8</td>
<td>0.2</td>
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<tr>
<td>4</td>
<td>Corona</td>
<td>73.4</td>
<td>23.6</td>
<td>90.7</td>
<td>1.6</td>
<td>1.2</td>
<td>0.1</td>
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<tr>
<td>6</td>
<td>Santa Clarita</td>
<td>69.8</td>
<td>19.7</td>
<td>87.9</td>
<td>3</td>
<td>1.2</td>
<td>0.5</td>
</tr>
<tr>
<td>8</td>
<td>Moreno Valley</td>
<td>68.6</td>
<td>17.1%</td>
<td>92.7</td>
<td>1.5</td>
<td>0.7</td>
<td>0.3</td>
</tr>
</tbody>
</table>

- Housing Affordability
- Growing Rural Communities
- Better living environment

=>

- Long Commute
- Higher VMT
- Heavy Congestion
- Lack of Options
Necessity or Convenience?

ANNUAL AVERAGE EMPLOYMENT IN TARGETED SECTOR (LOS ANGELES COUNTY)

Traffic-wise, L.A.’s the worst
U.S. drivers spent more than 8 billion hours stuck in traffic in 2015, according to transportation analytics firm Inrix.

Where U.S. Commuters Spend the Most Time Stuck In Traffic
Hours of extra travel time due to traffic congestion in 2019

Metro
Necessity or Convenience?

Los Angeles County
Number of Vehicles Registered
1998 to 2017

Recession

L.A. Metro riders ditching the bus
Since 2009, trips on the West Coast’s largest bus system have fallen by more than 25%.

Source: Metro
Los Angeles Times

Metro
To build or not to build...

**THAT IS THE QUESTION**

*William Shakespeare, 2021*
MEASURE R

2008 ~$8 bil. For Highways
Measure R Highway Projects

Subregional Allocations

Metro
Measure M
Funding Categories by subfund through 2039

Formal Ordinance Subfunds
Administration/Local Return 1.5% off the top*

- Transit Operating & Maintenance 27%
- Transit, First/Last Mile (Capital) 37%
- Highway, Active Transportation, Complete Streets (Capital) 19%
- Regional Rail (1%)
- Metro Rail Operations (5%)
- Local Return*/Regional Rail 17%
- ADA Paratransit Metro Discounts for Seniors and Disabled (2%)
- State of Good Repair (2%)
- System Connectivity (2%)
- System Connectivity (2%)
- Active Transportation (2%)

* 1% Administration to supplement Local Return, increasing the Local Return-Base to 17% of net revenues.
## Measures M Major Highway Projects – By Metro

### Countywide Highway Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Notes</th>
<th>Schedule of Funds Available</th>
<th>Expected Opening Date (3 year range)</th>
<th>Measure Funding 2015$</th>
<th>Most Recent Cost Estimate 2015$</th>
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</thead>
<tbody>
<tr>
<td>Airport Metro Connect 86th St, Station/Green Line Ext LAX ©</td>
<td>a.p.</td>
<td>FY 2018</td>
<td>CY 2021</td>
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<td>$233,984</td>
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<td>Westside Purple Line Extension Sect 3 ©</td>
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<td>FY 2019</td>
<td>FY 2024</td>
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<td>$98,149</td>
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<tr>
<td>High Desert Multi-Purpose Corridor (HDMC) ©</td>
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<td>FY 2024</td>
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<tr>
<td>I-5 N Cap. Enhancements (SR-14 to Lake Hughes Rd) ©</td>
<td>d.p.</td>
<td>FY 2019</td>
<td>FY 2023</td>
<td>n</td>
<td>$544,080</td>
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<tr>
<td>Gold Line Foothill Extension to Claremont ©</td>
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<tr>
<td>Orange Line BRT Improvements</td>
<td>f.p.</td>
<td>FY 2019</td>
<td>FY 2025</td>
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<td>$0</td>
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<tr>
<td>BRT Connector Orange/Red Line to Gold Line</td>
<td>g.p.</td>
<td>FY 2020</td>
<td>FY 2024</td>
<td>av</td>
<td>$0</td>
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<tr>
<td>BRT Connector Orange/Red Line to Gold Line</td>
<td>h.p.</td>
<td>FY 2020</td>
<td>FY 2025</td>
<td>av</td>
<td>$0</td>
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<tr>
<td>East SF Valley Transit Corridor Project ©</td>
<td>i.p.</td>
<td>FY 2021</td>
<td>FY 2025</td>
<td>sf</td>
<td>$500,000</td>
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<tr>
<td>West Santa Ana Transit Corridor LRT ©</td>
<td>j.p.</td>
<td>FY 2022</td>
<td>FY 2028</td>
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<td>$0</td>
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<tr>
<td>Crenshaw/AX Track Enhancement Project</td>
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<td>FY 2022</td>
<td>FY 2026</td>
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<td>SR-71 Gap from I-10 to Rio Rancho Rd.</td>
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<td>FY 2023</td>
<td>FY 2026</td>
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<td>LA River Waterway &amp; System Bikepath</td>
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<td>FY 2023</td>
<td>FY 2025</td>
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<td>Complete LA River Bikepath</td>
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<td>FY 2023</td>
<td>FY 2025</td>
<td>cc</td>
<td>$0</td>
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<tr>
<td>Sepulveda Pass Transit Corridor (Ph 1) ©</td>
<td>o.p.</td>
<td>FY 2024</td>
<td>FY 2026</td>
<td>w</td>
<td>$0</td>
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<tr>
<td>Sepulveda Pass Transit Corridor (Ph 1) ©</td>
<td>q.p.</td>
<td>FY 2024</td>
<td>FY 2026</td>
<td>w</td>
<td>$0</td>
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<tr>
<td>Vermont Transit Corridor</td>
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<td>FY 2025</td>
<td>FY 2027</td>
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<td>SR-57/SR-60 Interchange Improvements</td>
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<td>FY 2025</td>
<td>FY 2027</td>
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<td>$565,000</td>
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<tr>
<td>Green Line Extension to Crenshaw Blvd in Torrance ©</td>
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<td>FY 2026</td>
<td>FY 2028</td>
<td>sg</td>
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<tr>
<td>I-710 South Corridor Project (Ph 1) ©</td>
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<td>FY 2032</td>
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<td>I-105 Express Lane from I-405 to I-605</td>
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<td>Sepulveda Pass Transit Corridor (Ph 1) ©</td>
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<td>FY 2024</td>
<td>FY 2035</td>
<td>sf</td>
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<td>Sepulveda Pass Transit Corridor (Ph 1) ©</td>
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<td>FY 2033</td>
<td>sf</td>
<td>$1,667,000</td>
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<tr>
<td>Gold Line Eastside Extension (One Alignment) ©</td>
<td>y.p.</td>
<td>FY 2020</td>
<td>FY 2035</td>
<td>gc</td>
<td>$957,000</td>
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<tr>
<td>Gold Line Eastside Extension (One Alignment) ©</td>
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<td>FY 2020</td>
<td>FY 2035</td>
<td>sg</td>
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<tr>
<td>West Santa Ana Transit Corridor LRT ©</td>
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<td>FY 2041</td>
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<td>West Santa Ana Transit Corridor LRT ©</td>
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<tr>
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<td>FY 2041</td>
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<tr>
<td>I-5 Corridor Improvements (I-605 to I-110)</td>
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<td>FY 2042</td>
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<td>Crenshaw Northern Extension</td>
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<td>FY 2041</td>
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<tr>
<td>Crenshaw Northern Extension</td>
<td>f.p.</td>
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<td>FY 2047</td>
<td>w</td>
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<tr>
<td>I-405/I-110 Int. HOV Connect Ramps &amp; Intrchng Improv ©</td>
<td>g.p.</td>
<td>FY 2042</td>
<td>FY 2044</td>
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<td>I-605/I-10 Interchange</td>
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<td>FY 2043</td>
<td>FY 2047</td>
<td>sg</td>
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<td>SR 60/I-605 Interchange HOV Direct Connectors</td>
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<td>FY 2043</td>
<td>FY 2047</td>
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<td>Lincoln Blvd BRT</td>
<td>j.p.</td>
<td>FY 2043</td>
<td>FY 2047</td>
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<td>El Segundo Lane Ext South to I-405/I-110 Interchange</td>
<td>k.p.</td>
<td>FY 2044</td>
<td>FY 2051</td>
<td>sh</td>
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<td>I-405 South Bay Curve Improvements</td>
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<td>FY 2047</td>
<td>FY 2047</td>
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<td>Green Line Eastern Extension (Norwalk)</td>
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<td>FY 2052</td>
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<td>SF Valley Transportation Improvements</td>
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<td>FY 2050</td>
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<td>Sepulveda Pass Westwood to LAX (Ph 3)</td>
<td>o.p.</td>
<td>FY 2048</td>
<td>FY 2057</td>
<td>sf</td>
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<td>Orange Line Conversion to Light Rail</td>
<td>p.p.</td>
<td>FY 2051</td>
<td>FY 2057</td>
<td>sf</td>
<td>$1,067,000</td>
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<td>City of San Fernando Bike Master Plan</td>
<td>q.p.</td>
<td>FY 2052</td>
<td>FY 2054</td>
<td>sf</td>
<td>$0</td>
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<tr>
<td>Historic Downtown Streetcar</td>
<td>r.p.</td>
<td>FY 2053</td>
<td>FY 2057</td>
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<tr>
<td>Gold Line Eastside Ext Second Alignment</td>
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<td>FY 2053</td>
<td>FY 2057</td>
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<td>High Desert Multi-Purpose Corridor – LA County Segment</td>
<td>t.p.</td>
<td>FY 2063</td>
<td>FY 2067</td>
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<td>$1,814,718</td>
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**Expenditure Plan Major Projects Total:** $19,581,027

**Expenditure Plan Major Projects Subtotal:** $20,887,042

**Expenditure Plan Major Projects Subtotal:** $40,557,069
<table>
<thead>
<tr>
<th>Project Description</th>
<th>Notes</th>
<th>Available</th>
<th>Subregion</th>
<th>Expected Opening Date</th>
<th>Measure Funding 2018$</th>
<th>Most Recent Cost Estimate 2018$ **</th>
<th>Modal Code</th>
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<tr>
<td>Multi-Year Subregional Programs</td>
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<td></td>
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<td>47 Metro Active Transport, Transit 1st/Last Mile Prog.</td>
<td>p</td>
<td>FY 2018</td>
<td>FY 2057</td>
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<td>$0</td>
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<td>48 Visionary Project Seed Funding</td>
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<td>FY 2018</td>
<td>FY 2057</td>
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<td>$0</td>
<td>$20,000</td>
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<td>49 Street Car and Circulator Projects</td>
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<td>FY 2018</td>
<td>FY 2022</td>
<td>sc</td>
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<td>50 Transportation System and Mobility Improv. Program</td>
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<td>FY 2032</td>
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<td>51 Active Transportation 1st/Last Mile Connections Program</td>
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<td>FY 2057</td>
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<td>$0</td>
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<td>52 Active Transportation Program</td>
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<td>FY 2057</td>
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<td>$0</td>
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<td>53 Active Transportation Program</td>
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<td>FY 2018</td>
<td>FY 2057</td>
<td>gc</td>
<td>$0</td>
<td>TBD</td>
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<tr>
<td>54 Active Transportation Program (Including Greenway Proj.)</td>
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<td>FY 2057</td>
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<td>55 Active Transportation, 1st/Last Mile, &amp; Mobility Hubs</td>
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<td>FY 2057</td>
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<td>56 Active Transportation, Transit, and Tech. Program</td>
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<td>FY 2018</td>
<td>FY 2032</td>
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<td>57 Highway Efficiency Program</td>
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<td>FY 2032</td>
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<td>$0</td>
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<td>58 Bus System Improvement Program</td>
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<td>FY 2057</td>
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<td>59 First 1st Mile and Complete Streets</td>
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<td>FY 2057</td>
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<td>FY 2057</td>
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<td>62 Fixed-Connectivity and Complete Streets Projects</td>
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<td>FY 2062</td>
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<td>63 South Bay Highway Operational Improvements</td>
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<td>FY 2057</td>
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<td>64 Transit Program</td>
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<td>FY 2057</td>
<td>nc</td>
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<td>$88,000</td>
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<tr>
<td>65 Transit Projects</td>
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<td>FY 2057</td>
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<td>$257,100</td>
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<td>FY 2057</td>
<td>sb</td>
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<td>$350,000</td>
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<td>67 Countywide BRT Projects Ph 1 (All Subregions)</td>
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<td>FY 2019</td>
<td>FY 2023</td>
<td>sc</td>
<td>TBD</td>
<td>TBD</td>
<td>T/H</td>
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<td>68 Subregional Equity Program</td>
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<td>FY 2057</td>
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<td>69 Countywide BRT Projects Ph 2 (All Subregions)</td>
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<td>FY 2020</td>
<td>FY 2022</td>
<td>sc</td>
<td>TBD</td>
<td>TBD</td>
<td>T/H</td>
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<tr>
<td>70 Countywide BRT Projects Ph 2 (All Subregions)</td>
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<td>FY 2020</td>
<td>FY 2032</td>
<td>sc</td>
<td>TBD</td>
<td>TBD</td>
<td>T/H</td>
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<td>71 Active Transportation Projects</td>
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<td>FY 2057</td>
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<td>72 Los Angeles Safe Routes to School Initiative</td>
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<td>FY 2057</td>
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<td>73 Multimodal Connectivity Program</td>
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<td>FY 2034</td>
<td>FY 2042</td>
<td>sc</td>
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<td>$299,000</td>
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<tr>
<td>74 Countywide BRT Projects Ph 3 (All Subregions)</td>
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<td>FY 2040</td>
<td>FY 2057</td>
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<td>$0</td>
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<td>75 Arterial Program</td>
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<td><strong>GRAND TOTAL</strong></td>
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<td>$21,011,027</td>
<td>$31,243,641</td>
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</table>
Recent Considerations in Developing Projects

- More flexibility in the use of highway funds (active transportation, complete streets)
- Stopping/slowing major highway corridor improvement considerations until options with lesser impacts are explored and accepted (I-710, I-605)
- Inclusion of equity and race impact assessment in major highway investments
- Expanded public participation in project development
I-5 North HOV and Truck Lanes

- 14 miles of HOV lanes in both directions
- 2 miles of truck climbing lanes at the south end
- 7 bridge modifications at:
  - Gavin Canyon
  - Calgrove Blvd.
  - Butte Canyon
  - Magic Mountain Pkwy.
  - Santa Clara OH
  - Rye Canyon
  - Castaic Creek Bridge
- 1 bridge replacement at Weldon Canyon
- Soundwalls and retaining walls

*Construction contract awarded*
SR-57/SR-60 Interchange

- Metro Measure M Project
- Metro Call For Projects – In Progress
- Metro Call For Projects – In Progress
- Future Project

**Substantial grant funds secured**
**Construction: 2022**
SR-71

Project Summary

- In Final Design phase
- 2 segments:
  - Mission to SR-60 – upgrade from expressway to freeway
  - Mission to I-10 – upgrade including raising 2 bridges over the RR tracks

Status Update

- Construction of Mission to SR-60: Started
- Construction of Mission to I-10: Summer 2023
Project Summary

• Add auxiliary lanes NB & SB from I-105/I-405 to Artesia Blvd off-ramp

Status Update

• PSR completed Nov. 2018
• PAED completed in 2020
• Starting Design
• Construction in 2023
"Hot Spots" Program

1. I-605/Valley Blvd.  
Construction By the SGVCOG 2023

2. SR-60/7th Ave.  
Construction in 2022

3. I-605/Beverly Blvd.  
Construction in 2022

4. I-605/South St.  
Construction in 2022

5,6. SR-91 Central to Acacia  
Construction in 2024

7. SR-91 Atlantic to Cherry  
Construction in 2022

8. WB-91 Alondra to Shoemaker  
Construction in 2023

+ Over 30 Arterial Intersection Improvements

PAED Stopped ($6 bil.)
I-710

**Project Summary**
- In PAED phase
- 18 miles between the Ports of Long Beach and Los Angeles and the SR-60
- Locally-Preferred Alternative Selected:
  - 5C: One lane + upgrading
- Estimated Cost: $6-$11 billion
- Includes “Early Action” Projects
- $420 mil in Measure R and $500 mil. in Measure M

**Status Update**
- Final Corridor EIR/EIS: **Stopped**
- Early Action projects: **TBD**

Metro
Project prioritization through collaboration with the corridor cities/GCCOG
I-710 Integrated Corridor Management

Project Summary

- Parallel to 12 miles of the I-710 between SR-91 to SR-60.
- In the cities of Bell, Bell Gardens, Commerce, Compton, Cudahy, Downey, Long Beach, Lynwood, Maywood, Paramount, South Gate, Vernon, and unincorporated LA County.
- Communication and signal upgrades, ramp metering, detection systems, cameras, lane closure and travel time systems to more effectively manage congestion.
- Will integrate all systems from each agency to effectively manage incidents and other non-recurrent events.
- No new right-of-way acquisition is expected.

Status Update

- Project Charter signed by all stakeholders
- Concept of Operations circulated for review June 2021
- Functional Requirements and High-Level Design Phases to be initiated August 2021
- PS&E target completion December 2022
- Funds for Construction to be identified
State Route 710 (North)

Project Summary

- $780M in Measure R funds
- $300+M in other funds
- PAED Completed
- Preferred Alternative selected: TSM/TDM
- Mobility improvement projects (MIP) identified for funding and implementation

Status Update

- Programming of approved TSM/TDM and MIPs in 2019 and after
- Working with the San Gabriel Valley cities and the City and County of LA to implement projects
## M.R. SR-14/138 Projects

<table>
<thead>
<tr>
<th>Project</th>
<th>Construction Date (Estimate)</th>
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<tbody>
<tr>
<td>SR-138/SR-14 Avenue K Interchange</td>
<td>Sep. 2022</td>
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<tr>
<td>SR-138/SR-14 Avenue G Interchange</td>
<td>Mar. 2022</td>
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<tr>
<td>SR-138/SR-14 Avenue L Interchange</td>
<td>Jan. 2023</td>
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<td>SR-138/SR-14 Avenue M Interchange</td>
<td>Oct. 2022</td>
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<td>SR-138/Palmdale Blvd., 5th to 10th Street East</td>
<td>Jul. 2024</td>
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<td>SR-138/Palmdale Blvd., SB SR-14 Ramps</td>
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<td>SR-138, 10th Street West Interchange</td>
<td>Dec. 2023</td>
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<td>SR-138 Widening, Rancho Vista Blvd. to Palmdale Blvd.</td>
<td>Completed</td>
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<tr>
<td>SR-138, Avenue N Overcrossing</td>
<td>Jan. 2022</td>
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</tbody>
</table>

Construction contracts by Palmdale and Lancaster
High Desert Corridor

**Project Summary**

- 63 miles - Highway, Expressway, Tollway, High Speed Rail, Bikeway, and energy production/transmission corridor concepts
- Connecting North Los Angeles County and San Bernardino County (Victorville)
- Transit connection between the CHSR and the XpressWest
- In Measure M for ROW and related services in 2019
- More funds in later years
- Final EIR/EIS completed in 2016

**Status Update**

- Passenger rail feasibility study in progress
- Highway alignment alternative PSR on 138 and 18 started in 2021

Metro
## Additional Regional Projects
- Soundwall Package 10
- I-710 Soundwalls

## Supporting Other Metro Projects/Programs
- Next Gen Bus
- I-210 Safety Barrier
- Regional Planning
- ExpressLanes

## Assisting in Development of Local Projects
- Local Intersections
  - City of Whittier
  - City of San Gabriel
  - City of South Gate
  - City of Compton
  - City of Lawndale
  - ... More to come

## Additional Engagements
- Freight Advanced Traveler Information System Study/Technology Implementation
- **SR-710 Mobility Improvement Projects** Var. Phases
- I-710 Early Action Projects (Roadway/Interchanges) TBD
Transportation Technology/Op. Improvements

Connected Vehicles

HOV LANE AHEAD

Integrated Transp. System


Traffic Management Center
Traveler Information Provider
Traveler Services

Integrated Transp. System

CONNECTED CORRIDOR

Air, Rail, and Ferry Transp. Providers
511 Systems
Parking Management System
Progress

**COMPLETED**
- SR-138 Widening, Rancho Vista Blvd. to Palmdale Blvd.

**CONSTRUCTION**
- I-5 HOV Lanes; SR-14 to Parker Road
- I-605/South Street Interchange Improvements
- SR-138 Segment 6
- SR 14/SR-138 at Avenue K
- I-710 Soundwall Package 2
- I-710 Soundwall Package 3

**ENVIRONMENTAL**
- I-405 Improvements NB/SB, I-110 to Wilmington
- I-605 Corridor Improvements, I-105 to I-10
- I-710 Corridor Improvements
- I-710 Integrated Corridor Management (ICM)
- I-105 ICM
- Imperial Hwy Corridor Capacity Enhancements-Lynwood
- SR-138/SR-14 Avenue G Interchange
- SR-138/SR-14 Avenue L Interchange

**FINAL DESIGN**
- Soundwall Pkg. 10
- SR-57/SR-60 Interchange Improvements
- SR-60/7th Avenue Interchange Improvements (PAED?)
- SR-72 (Whittier Blvd.) @ Painter and S.F. Springs Rd.
- SR-91 WB Improvements, Shoemaker to I-605/Alondra
- SR-91 EB Improvements, Atlantic to Cherry
- SR-91 Improvements, Central Avenue to Acacia
- SR-138 (Palmdale Blvd.), 5th St. to 10th Street East
- SR-138/SR-14 10th Street West Interchange
- SR-138/SR-14 Avenue J Interchange
- SR-138/SR-14 Avenue K Interchange
- SR-138/SR-14 Avenue M Interchange
- SR-138/SR-14 Avenue N Overcrossing
- I-405 NB and SB Imp., I-105 to Artesia Blvd.
- I-605/Beverly Blvd. Interchange Improvements
- I-605/Valley Blvd. Interchange Improvements
- SR-710 San Gabriel Intersections
- I-710 Early Action Projects (Soundwalls)
- I-710/Shoemaker Bridge Replacement
Discussions
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53 scholarships have been awarded to a diverse group of students from institutions across the SoCal Region.

INTERNSHIPS
Thanks to our Industry partners 77 internships were offered to deserving interns interested in the professional practice of CM.

Yesnia Campos receives a $5,000 SafeworkCM Diversity Scholarship from Rebecca Jones of SafeworkCM