

Metro Highway Program



Metro

**CONSTRUCTION NETWORK
MAY 2021**

What's the Problem?

- Short Supply of Roads
- Incomplete Highway System

Roadway Capacity Deficiency

- Economic Prosperity
- Concentrated Job Centers
- Chaotic land development (sprawl)
- Affordability

Longer Commutes

- Disconnect in decision-making
- Lack of Planning
- Historic Incorrect Decisions/Directions
- Looking The Other Way (Denial)

Growing Congestion

- **Higher Cost of Living/Doing Business**
- **Business/People/Money Exodus**



Metro

What's the Problem?

smartasset

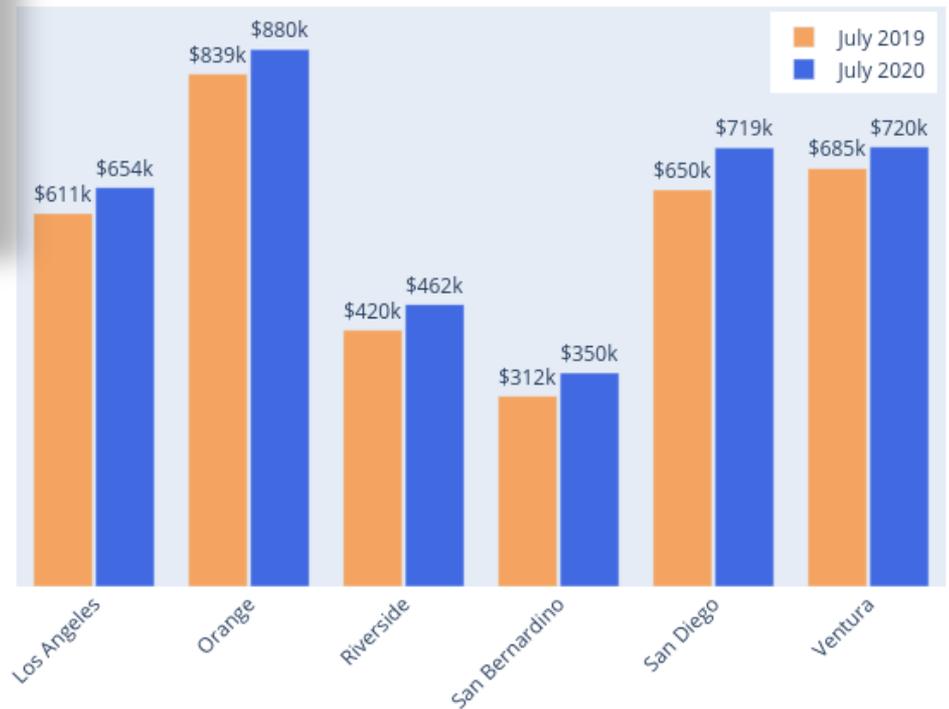


AVERAGE LA HOME PRICE 2010 vs 2015



Source: trulia.com

Median Price of Single Family Homes in So. Cal.

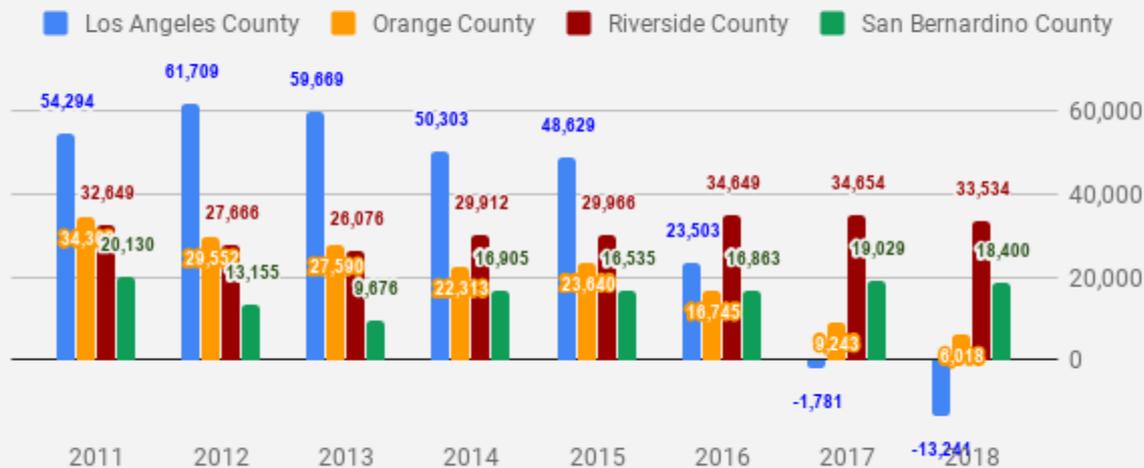


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What's the Problem?

Southern California population change

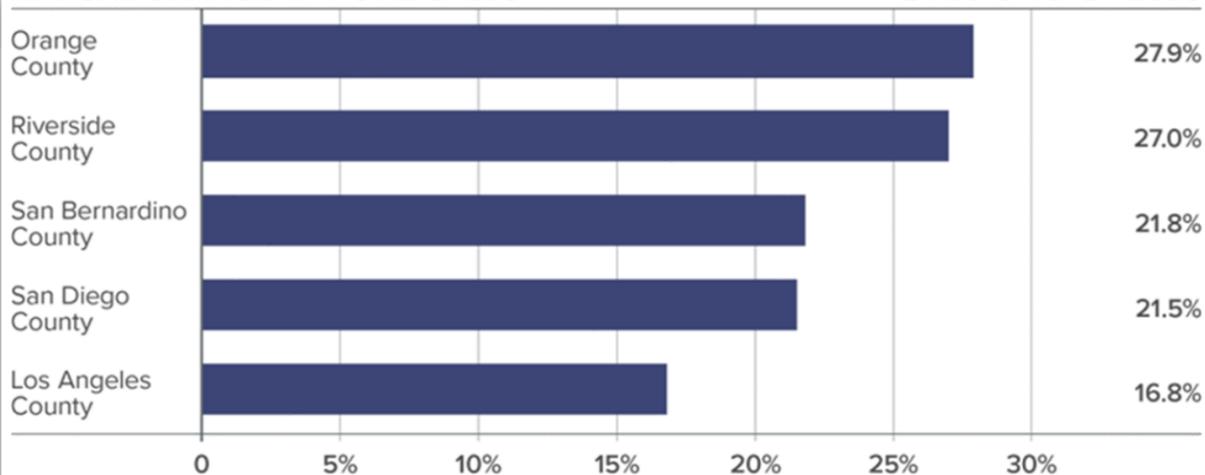
Yearly change in 4-county region



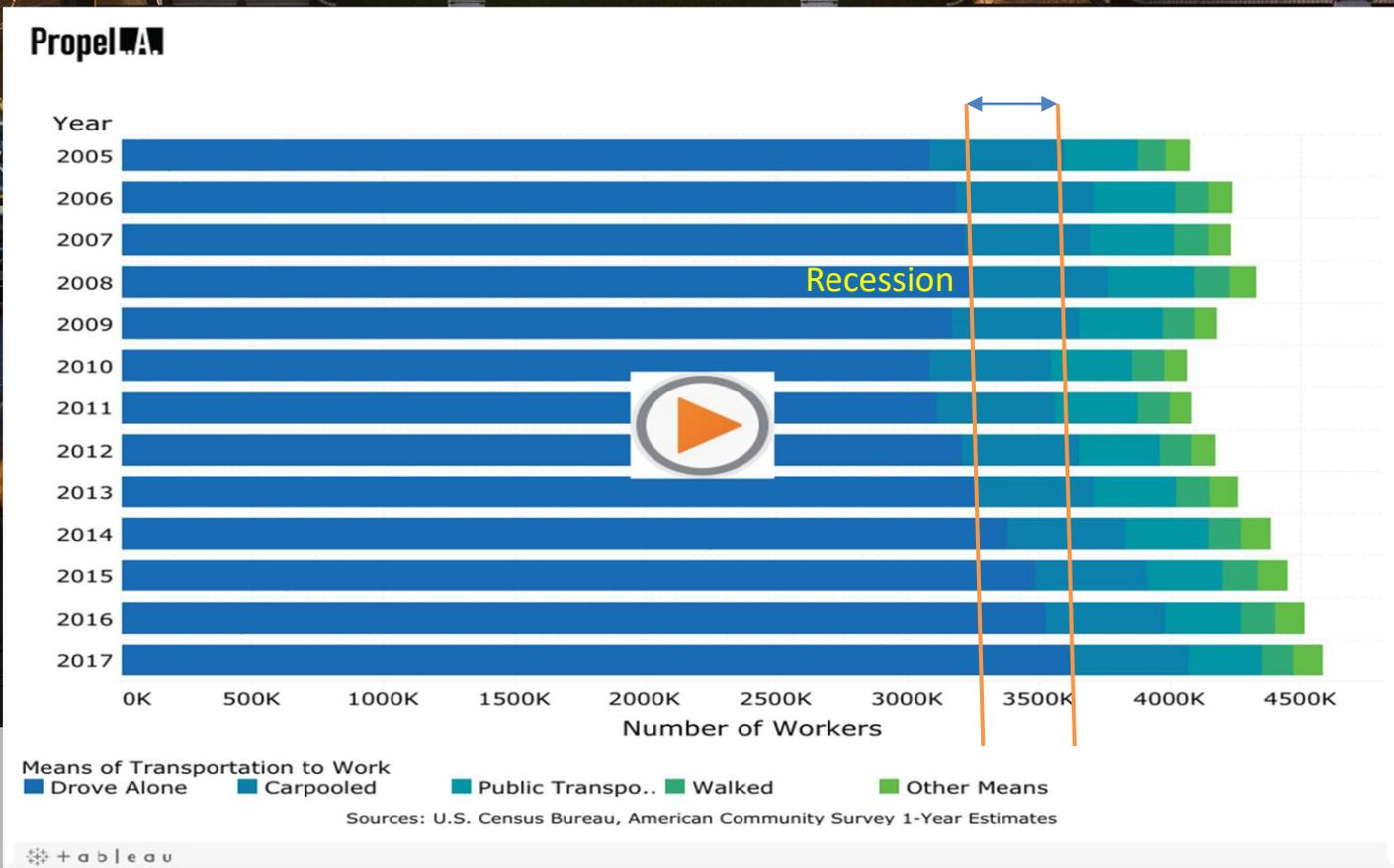
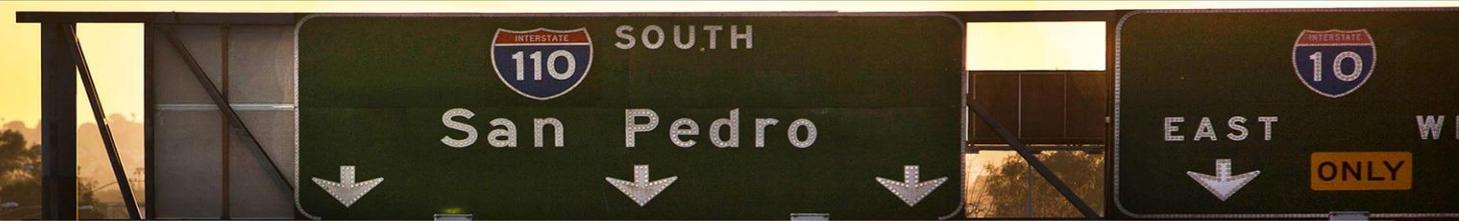
SOURCE: CENSUS

ANNUAL CHANGE IN HOME SALES

Q4-2019 TO Q4-2020

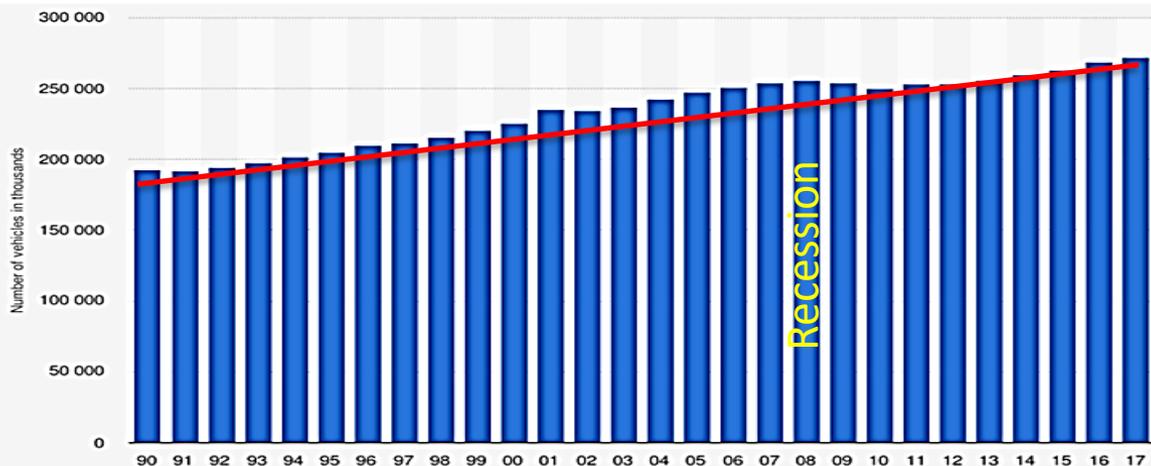


2005-2017 Means of Transportation to Work LA County



1990-2017 Growth in U.S. Market Demand for Vehicles

Motor Vehicles Registered in the U.S., 1990-2017 (X1,000)

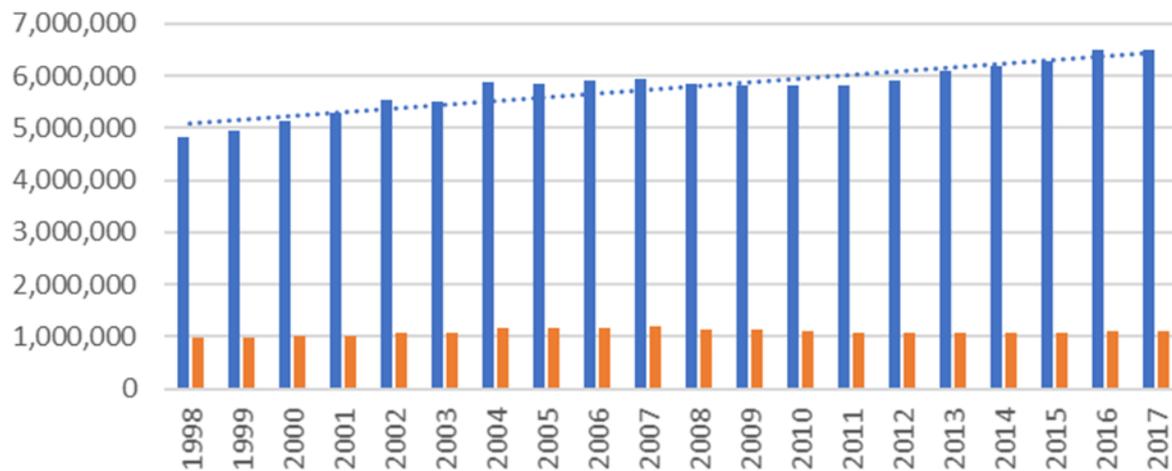


Sources
 US Department of Transportation; Federal Highway Administration
 © Statista 2019

Additional Information:
 United States; US Department of Transportation

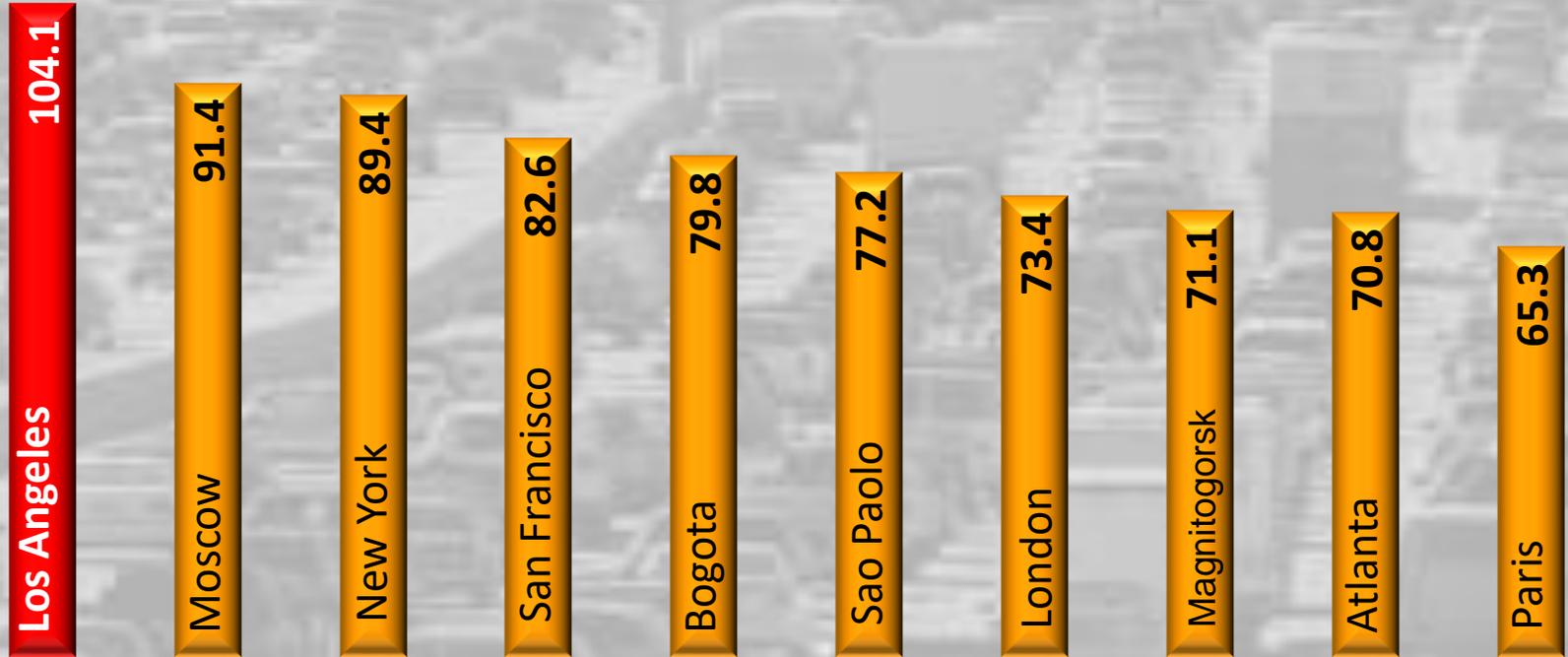


Registered Automobiles and Trucks in Los Angeles County



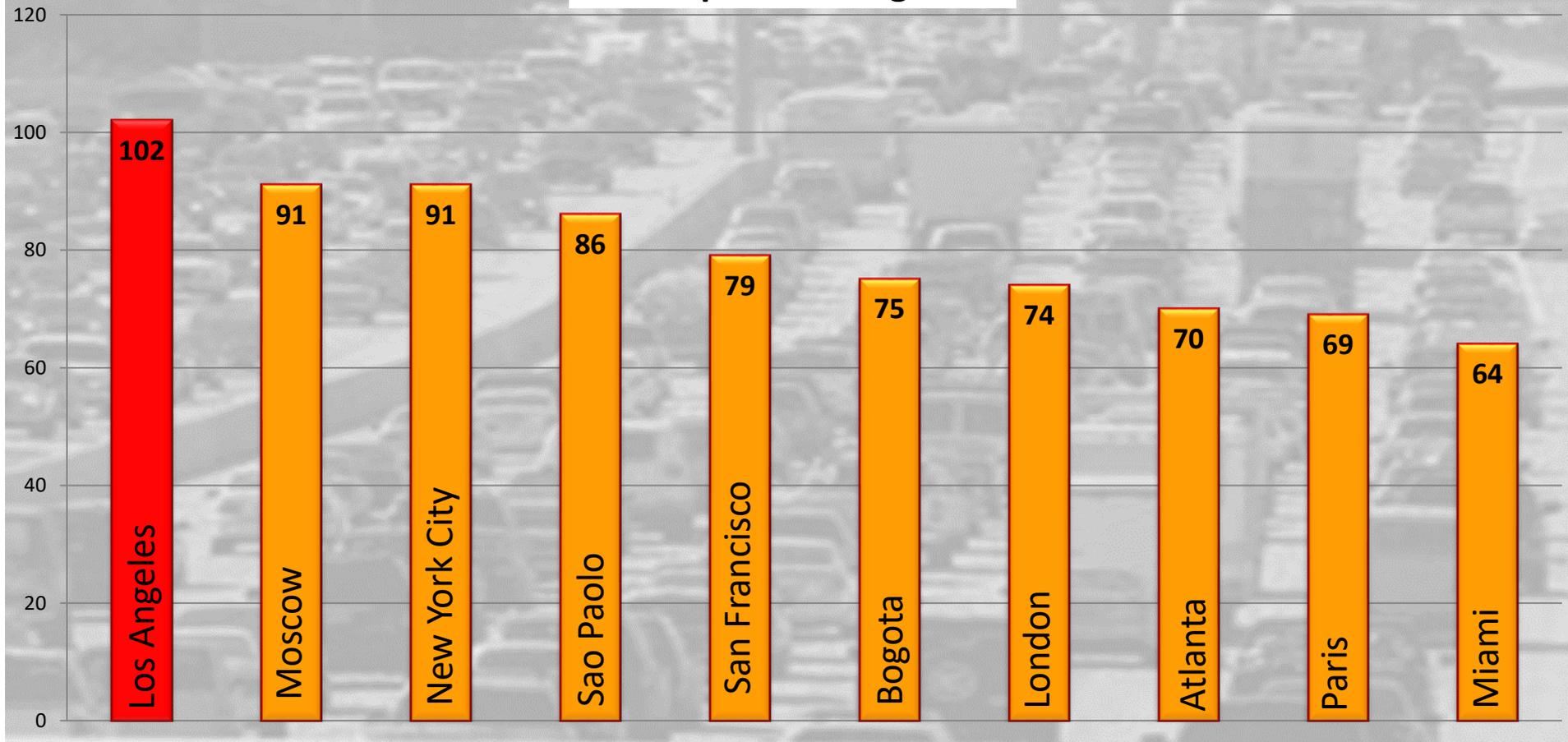
2016 Top 10 Global Congested Freeways

HOURS SPENT IN CONGESTION PER YEAR PER DRIVER

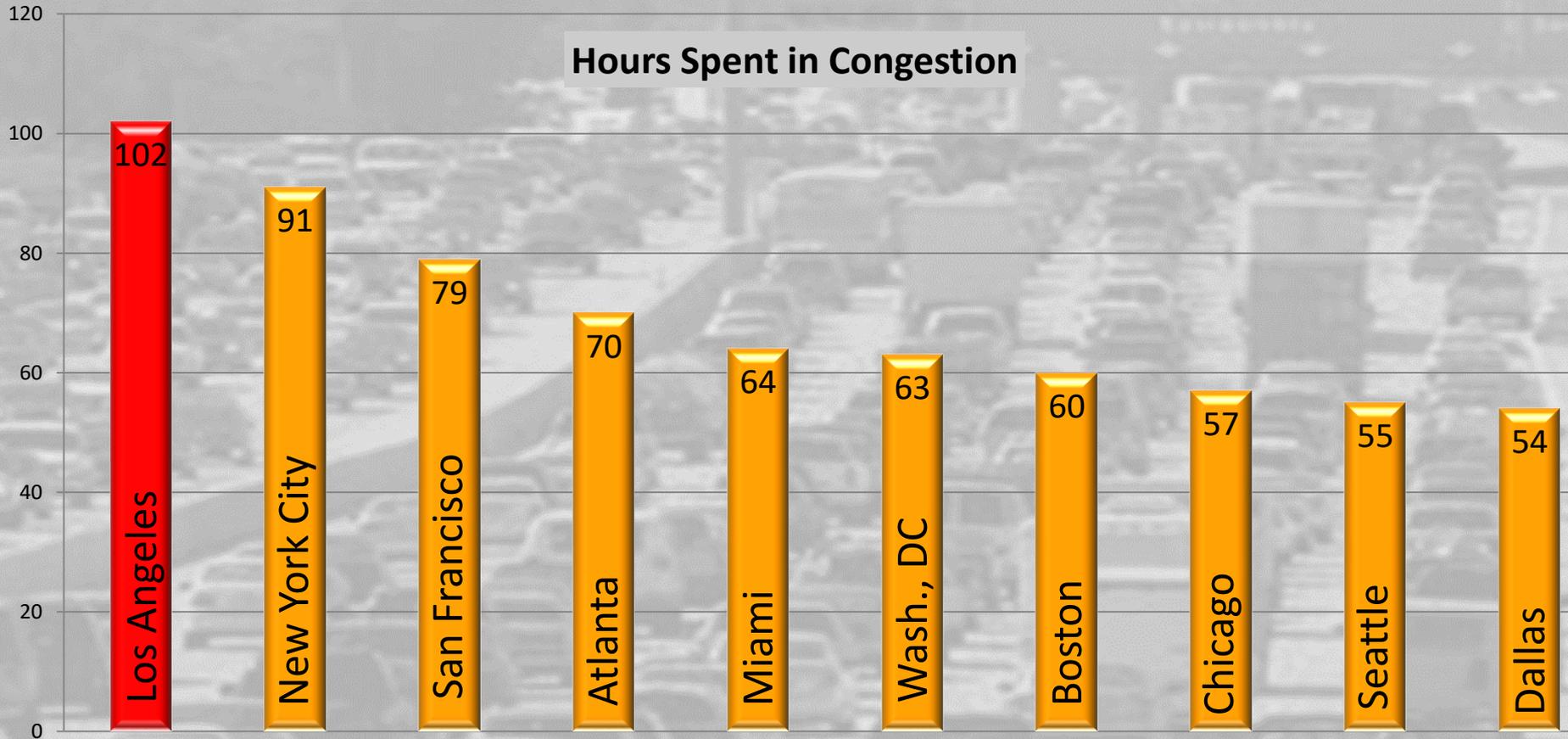


2017 Top 10 Global Congested Cities

Hours Spent in Congestion



2017 United States Top Congested Cities



LOS ANGELES BUSINESS JOURNAL
THE COMMUNITY OF BUSINESS

Report: L.A. Freeways Claim Five of Top 10
Traffic Jam Spots in the Nation



LA 2018 Delays : 128 hours



2019 United States Top Congested Urban Areas

2019 CONGESTION RANK (2018)	URBAN AREA	HOURS LOST IN CONGESTION	2018-2019 CHANGE	2017-2018 CHANGE	INCIDENT IMPACT	COST PER DRIVER	TOTAL COST PER CITY
1 (1)	Boston, MA	149	-5%	3%		\$2,205	\$4.1B
2 (3)	Chicago, IL	145	4%	0%		\$2,146	\$7.6B
3 (5)	Philadelphia, PA	142	4%	5%		\$2,102	\$4.5B
4 (2)	New York City, NY	140	-4%	-3%		\$2,072	\$11B
5 (3)	Washington DC	124	-11%	4%		\$1,835	\$4.1B
6 (7)	Los Angeles, CA	103	4%	-8%		\$1,524	\$8.2B
7 (6)	San Francisco, CA	97	-8%	-4%		\$1,436	\$3B
8 (9)	Portland, OR	89	10%	-7%		\$1,317	\$1.2B
9 (11)	Baltimore, MD	84	5%	9%		\$1,243	\$1.3B
10 (12)	Atlanta, GA	82	9%	-3%		\$1,214	\$3.0B

2019 United States Top Congested Freeways

RANK	CITY	ROAD NAME	FROM	TO	DAILY DELAY (MINUTES)	YEARLY DELAY (HOURS)
1	Los Angeles	I-5	I-10	I-605	20	80
2	Los Angeles	US-101	CA-134	CA-110	19	76
3	New York City	Brooklyn Queens Expressway	Brooklyn-Battery Tunnel	I-495	17	68
4	New York City	I-95	Bruckner Expressway	George Washington Bridge	16	64
5	Atlanta	I-85/I-75	T. Mathis Parkway	College Park	16	64
6	Austin	I-35	West Slaughter Lane	East Dean Keaton Street	16	64
7	Tampa Bay	I-275	St. Petersburg	North Tampa Street	15	60
8	Chicago	I-290	I-294	I-90	14	56
9	Los Angeles	I-405	US-101	I-105	14	56
10	Chicago	I-90/I-94	I-294	I-290	13	52

MORE congestion

Regardless of investments in alternative modes of transportation.



Los Angeles County Area Statistics

- ❑ 9.8 million people (2010 Census)
- ❑ 2.4 million more people in the next 40 years
- ❑ 3.9 million workers commute by car or carpool (82% of the workforce)
- ❑ 6.6 million driver licenses
- ❑ 7.8 million vehicles registered in LA County
- ❑ 220 million Daily VMT
- ❑ 471,000 workers commute into LA County from other counties every day

Los Angeles Area Cost of Inaction

- ❑ **~2 working weeks/driver/year** wasted in congestion
- ❑ **\$1800/year** cost of lost time and wasted fuel per driver
- ❑ **\$900+** per driver cost of extra vehicle operating costs

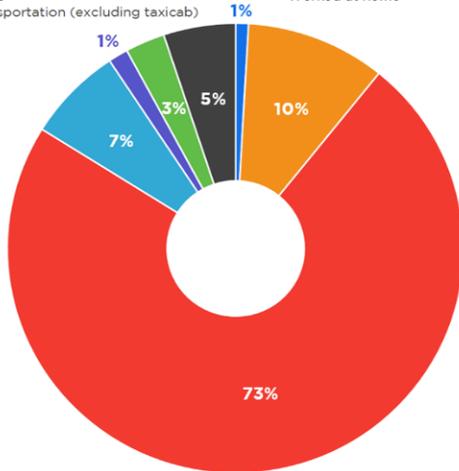
- ❑ **79%** of roads are in poor/mediocre condition
- ❑ **4%** of bridges 20' or longer have significant structural deficiencies

- ❑ **876** traffic accident-related deaths per year between 2014 and 2016

Necessity or Convenience?

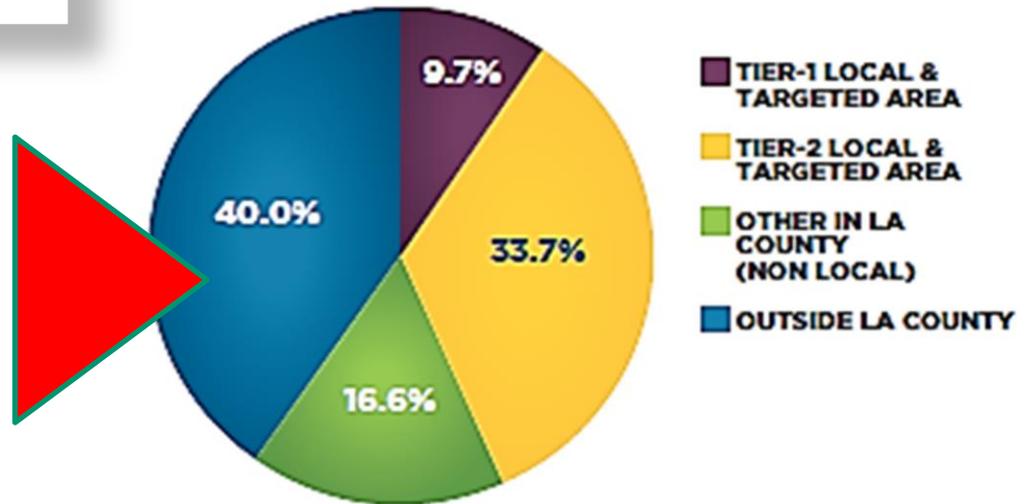
Propel Means of Transportation to Work for Los Angeles County Residents (2015)

- Bicycle
- Carpooled
- Drove alone
- Public transportation (excluding taxicab)
- Taxicab, motorcycle, or other means
- Walked
- Worked at home



Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Propel L.A. Analysis

WORKER RESIDENCY LWHP PROJECTS (40)



LOCAL AND TARGETED WORKER HIRE PROGRAM
For Active Projects in LA County
Source: LA County Dept. of PW
as of 5/31/18

Necessity or Convenience?

2017 Top U.S. Cities with the Longest Commutes

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

- Housing Affordability
- Growing Rural Communities
- Affordable New Housing
- Better living environment/
Community Services

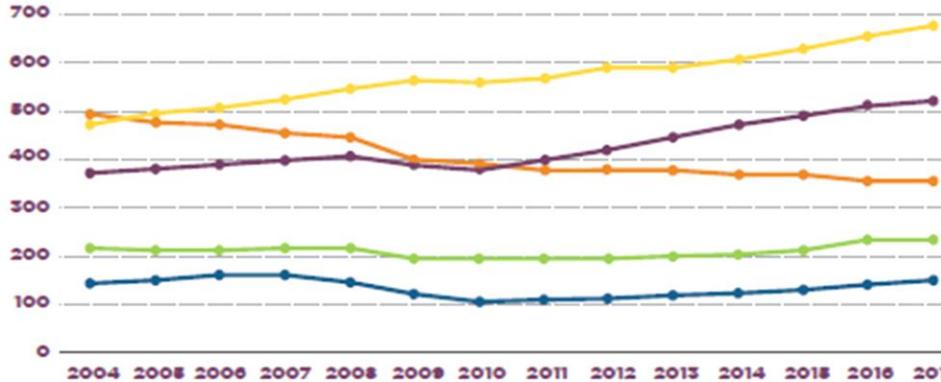


- Long Commutes
- High VMT
- Heavy Congestion



Necessity or Convenience?

ANNUAL AVERAGE EMPLOYMENT IN TARGETED SECTOR (LOS ANGELES COUNTY)



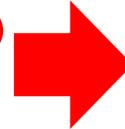
Health Services ○

Leisure and Hospitality ○

Manufacturing

Entertainment ○

Construction ○

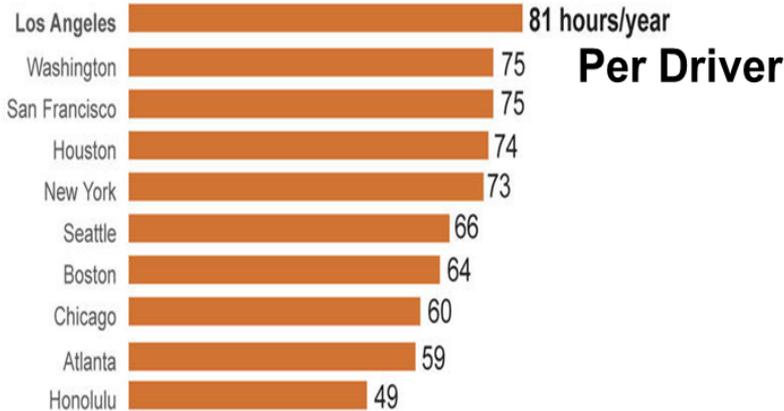


Car Dependency

Source: Los Angeles County Economic Development Corporation (LAEDC)

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.



Source: Inrix

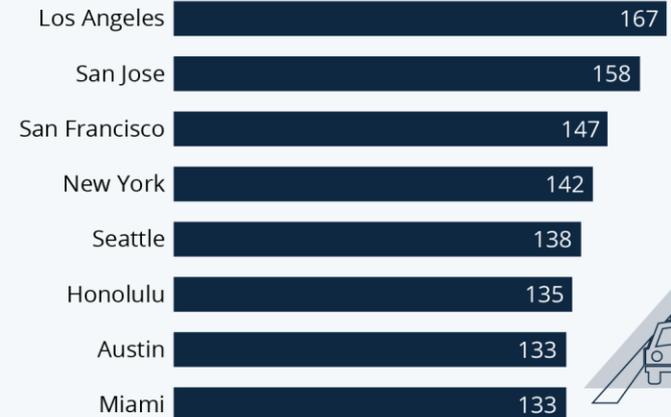
@latimesgraphics



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Where U.S. Commuters Spend The Most Time Stuck In Traffic

Hours of extra travel time due to traffic congestion in 2019



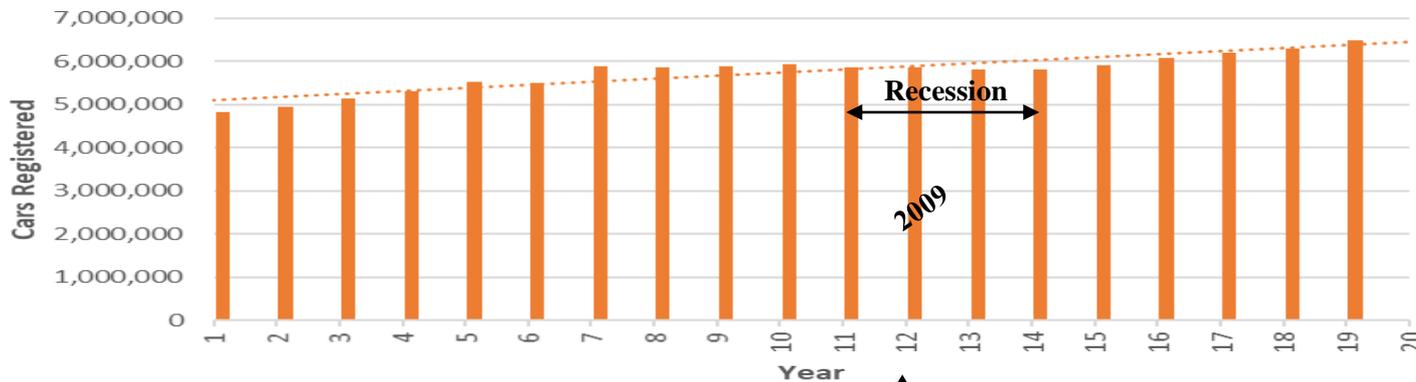
Source: TomTom



statista

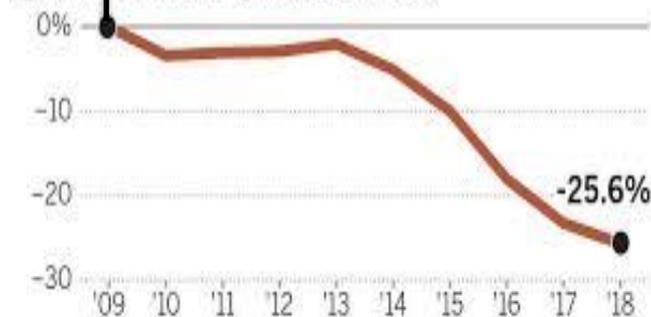
Necessity or Convenience?

Los Angeles Cuntly
Number of Vehicles Registered
1998 to 2017



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

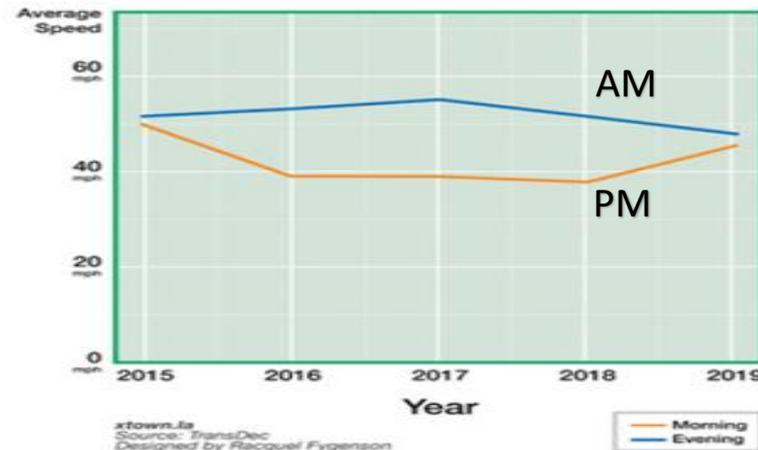
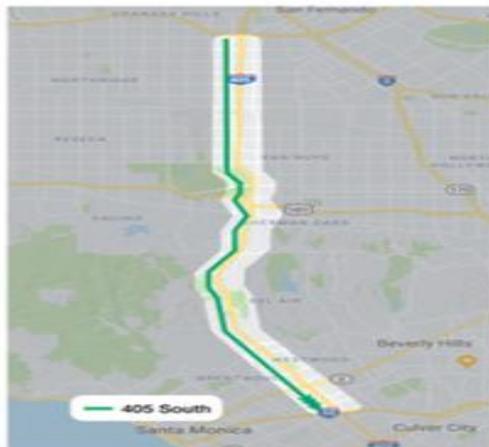


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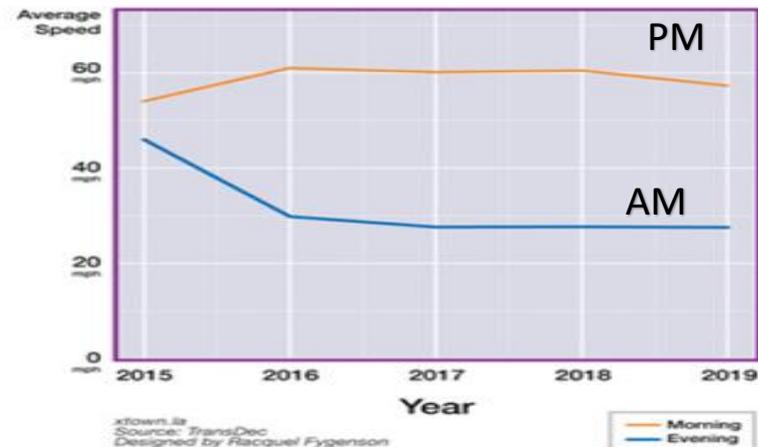
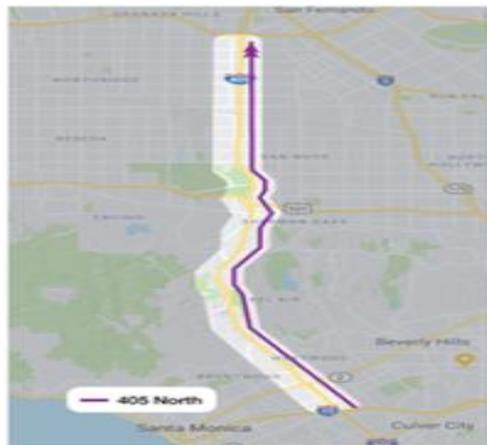
Necessity or Convenience?



Speeds on the 405 South through the Sepulvuda Pass



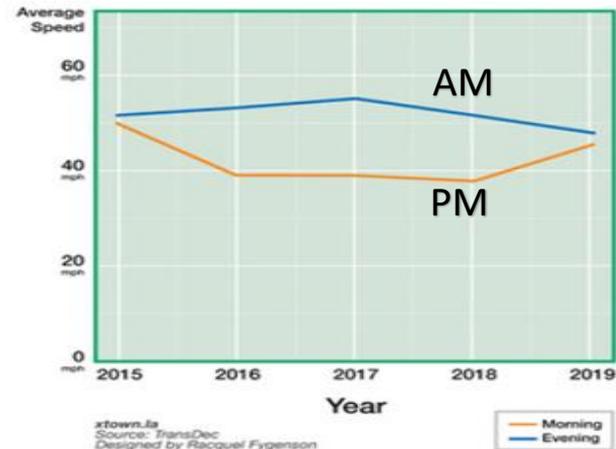
Speeds on the 405 North through the Sepulvuda Pass



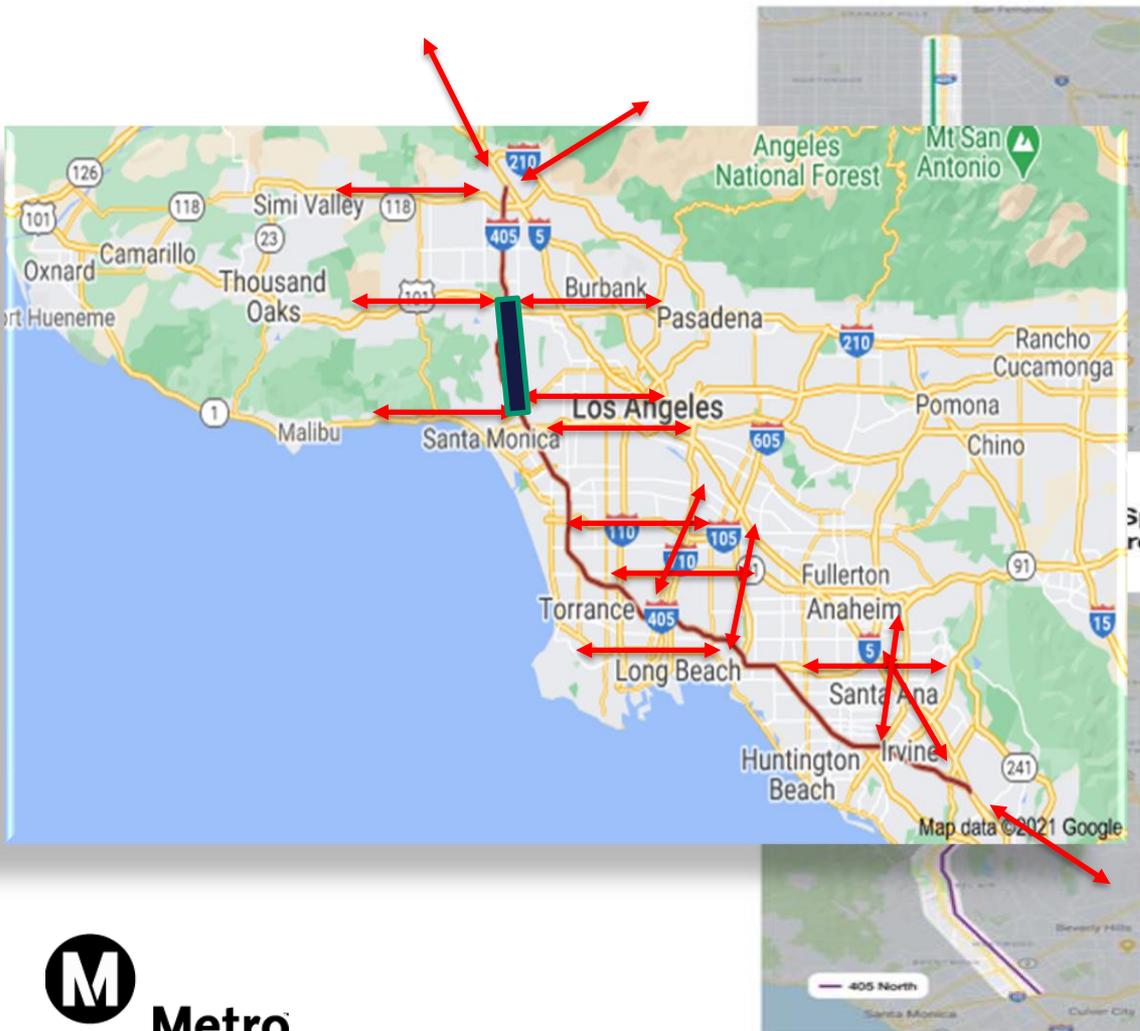
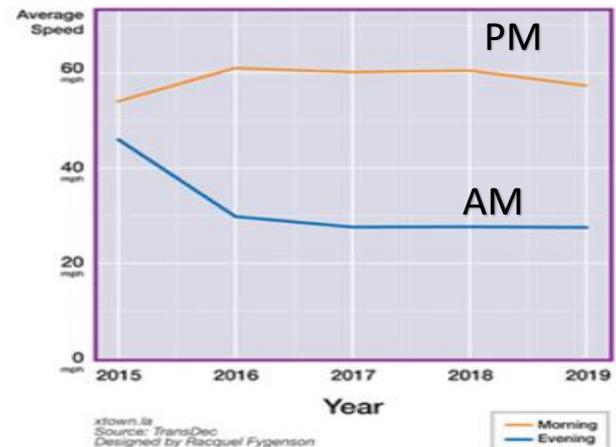
Necessity or Convenience?



Speeds on the 405 South through the Sepulvuda Pass

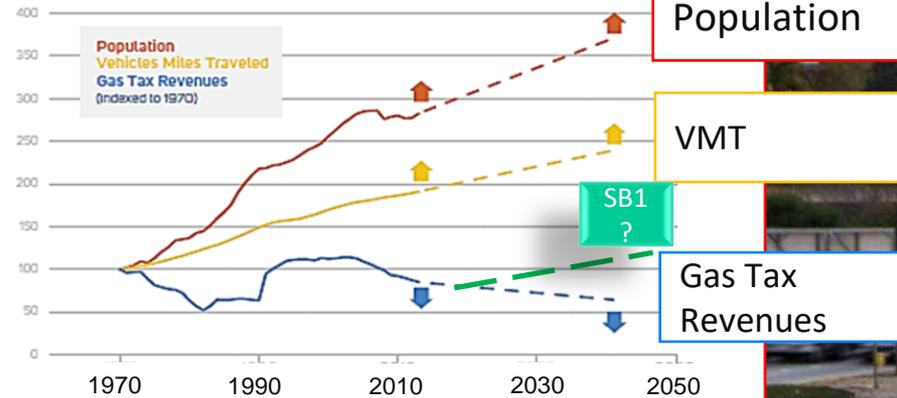


Speeds on the 405 North through the Sepulvuda Pass



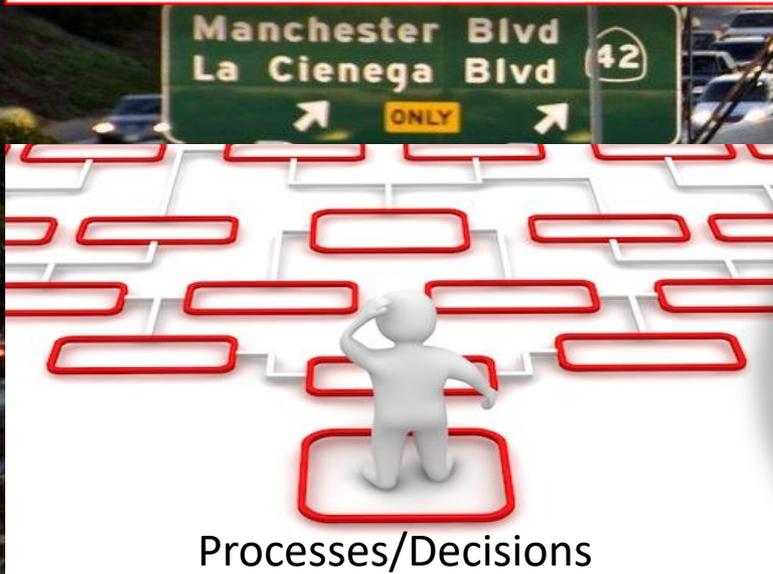
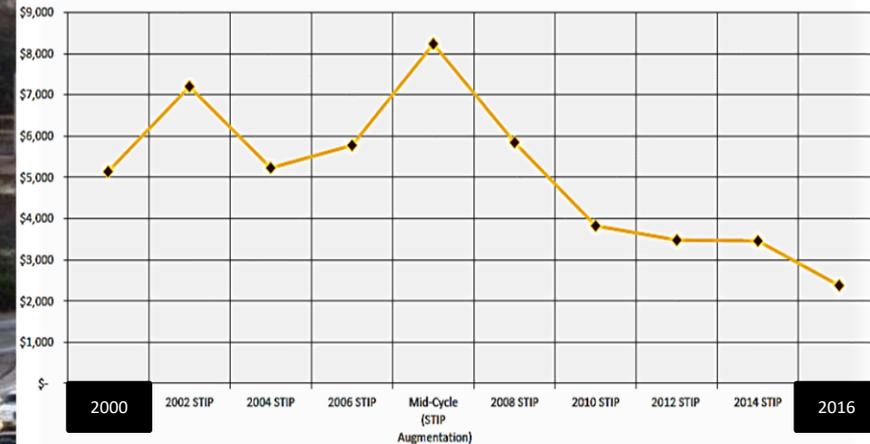
If We Know All That, Why Don't We Do it Right?

FIGURE 3.1 CALIFORNIA POPULATION, TRAVEL AND GAS TAX REVENUE TRENDS



Source: Caltrans, California Department of Finance, California State Board of Equalization, White House Office of Management and Budget

HISTORIC STIP PROGRAMMING LEVELS



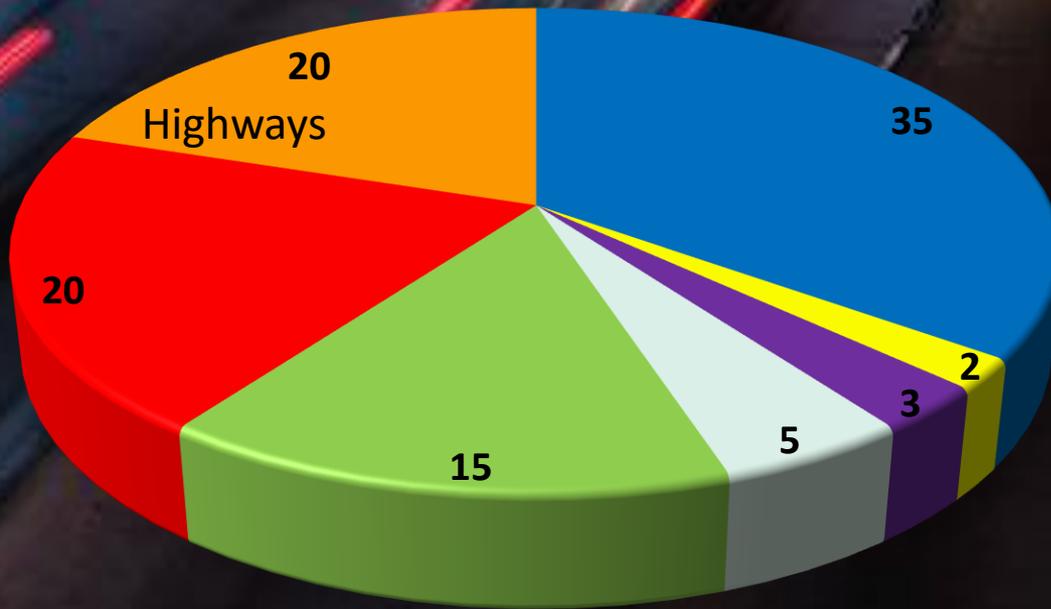
Processes/Decisions



- Inaccurate assumptions
- Irrelevant comparisons
- Incorrect directions
- Local priorities leading to regional losses
- Play it safe

"If you build it, they will come"
- Better Remain unknown

MEASURE R



2008

~\$8 bil. For Highways

Measure R Highway Projects



MEASURE M



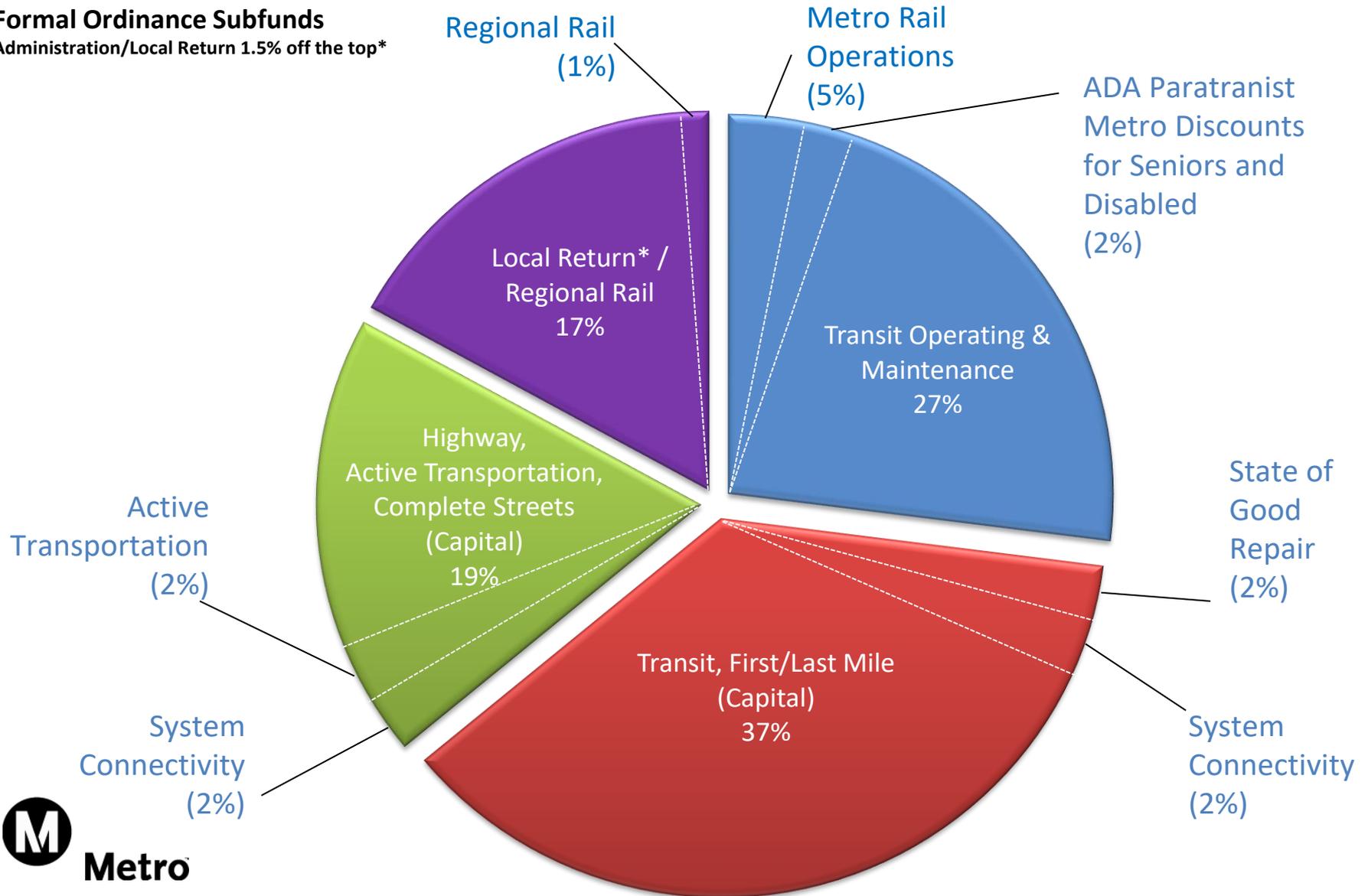
2016 ~\$21 bil. For Highways

Measure M

Funding Categories by subfund through 2039

Formal Ordinance Subfunds

Administration/Local Return 1.5% off the top*



* 1% Administration to supplement Local Return, increasing the Local Return-Base to 17% of net revenues.

Measure M Projects



Map numbers are for reference only.
Final project scope will be determined in the environmental process.

Measures M Major Highway Projects – By Metro

For Reference Only	Project (Final Project to be Defined by the Environmental Process)	Notes	Schedule of Funds Available		Subregion*	2016 - 2067 Local, State, Federal, Other Funding 2015\$	Measure — Funding 2015\$	Most Recent Cost Estimate 2015\$**	Modal Code
			Ground- breaking Start Date†	Expected Opening Date (3 year range)					
	Expenditure Plan Major Projects			1 st yr of Range					
1	Airport Metro Connect 96th St. Station/Green Line Ext LAX ®	a,p	FY 2018	CY 2021	sc	\$233,984	\$347,016	\$581,000	T
2	Westside Purple Line Extension Section 3 ®	b	FY 2018	FY 2024	w	\$986,139	\$994,251	\$1,980,390	T
3	High Desert Multi-Purpose Corridor (HDMC)®	q	FY 2019	FY 2021	nc	\$100,000	\$170,000	\$270,000	H
4	I-5 N Cap. Enhancements (SR-14 to Lake Hughes Rd) ®		FY 2019	FY 2023	nc	\$544,080	\$240,000	\$784,080	H
5	Gold Line Foothill Extension to Claremont ®	c	FY 2019	FY 2025	sg	\$78,000	\$1,019,000	\$1,097,000	T
6	Orange Line BRT Improvements	n	FY 2019	FY 2025	sf	\$0	\$286,000	\$286,000	T
7	BRT Connector Orange/Red Line to Gold Line	o	FY 2020	FY 2022	av	\$0	\$240,300	\$240,300	T
8	BRT Connector Orange/Red Line to Gold Line	o	FY 2020	FY 2022	sf	\$0	\$26,700	\$26,700	T
9	East SF Valley Transit Corridor Project ®	d	FY 2021	FY 2027	sf	\$520,500	\$810,500	\$1,331,000	T
10	West Santa Ana Transit Corridor LRT ®	b,c	FY 2022	FY 2028	gc	\$500,000	\$535,000	\$1,035,000	T
11	Crenshaw/LAX Track Enhancement Project	e,r	FY 2022	FY 2026	sc	\$0	\$49,599	\$49,599	T
12	SR-71 Gap from I-10 to Rio Rancho Rd.		FY 2022	FY 2026	sg	\$26,443	\$248,557	\$275,000	H
13	LA River Waterway & System Bikepath		FY 2023	FY 2025	cc	\$0	\$365,000	\$365,000	H
14	Complete LA River Bikepath		FY 2023	FY 2025	sf	\$0	\$60,000	\$60,000	H
15	Sepulveda Pass Transit Corridor (Ph 1) ®	b,i	FY 2024	FY 2026	sf	\$0	\$130,000	\$130,000	H
16	Sepulveda Pass Transit Corridor (Ph 1) ®	b,i	FY 2024	FY 2026	w	\$0	\$130,000	\$130,000	H
17	Vermont Transit Corridor	o	FY 2024	FY 2028	cc	\$400,000	\$25,000	\$425,000	T
18	SR-57/SR-60 Interchange Improvements	d	FY 2025	FY 2031	sg	\$565,000	\$205,000	\$770,000	H
19	Green Line Extension to Crenshaw Blvd in Torrance ®	d,g	FY 2026	FY 2030	sb	\$272,000	\$619,000	\$891,000	T
20	I-710 South Corridor Project (Ph 1) ®	d,f	FY 2026	FY 2032	gc	\$150,000	\$250,000	\$400,000	H
21	I-105 Express Lane from I-405 to I-605	p	FY 2027	FY 2029	sc	\$0	\$175,000	\$175,000	H
22	Sepulveda Pass Transit Corridor (Ph 2) ®	b	FY 2024	FY 2033	sf	\$1,567,000	\$1,270,000	\$2,837,000	T
23	Sepulveda Pass Transit Corridor (Ph 2) ®	b	FY 2024	FY 2033	w	\$1,567,000	\$1,270,000	\$2,837,000	T
24	Gold Line Eastside Extension (One Alignment) ®	d	FY 2029	FY 2035	gc	\$957,000	\$543,000	\$1,500,000	T
25	Gold Line Eastside Extension (One Alignment) ®	d	FY 2029	FY 2035	sg	\$957,000	\$543,000	\$1,500,000	T
26	West Santa Ana Transit Corridor LRT ®	r	FY 2022	FY 2041	cc	\$1,082,500	\$400,000	\$1,482,500	T
27	West Santa Ana Transit Corridor LRT ®	r	FY 2022	FY 2041	oc	\$982,500	\$500,000	\$1,482,500	T
28	I-710 South Corridor Project (Ph 2) ®		FY 2032	FY 2041	gc	\$658,500	\$250,000	\$908,500	H
29	I-5 Corridor Improvements (I-605 to I-710)		FY 2036	FY 2042	gc	\$46,060	\$1,059,000	\$1,105,060	H
30	Crenshaw Northern Extension	i	FY 2041	FY 2047	cc	\$495,000	\$1,185,000	\$1,680,000	T
31	Crenshaw Northern Extension	i	FY 2041	FY 2047	w	\$0	\$560,000	\$560,000	T
32	I-405/I-110 Int. HOV Connect Ramps & Intrchg Improv ®		FY 2042	FY 2044	sb	\$0	\$250,000	\$250,000	H
33	I-605/I-10 Interchange		FY 2043	FY 2047	sg	\$472,400	\$126,000	\$598,400	H
34	SR 60/I-605 Interchange HOV Direct Connectors		FY 2043	FY 2047	sg	\$360,600	\$130,000	\$490,600	H
35	Lincoln Blvd BRT	l,o	FY 2043	FY 2047	w	\$0	\$102,000	\$102,000	T
36	I-110 Express Lane Ext South to I-405/I-110 Interchange		FY 2044	FY 2046	sb	\$228,500	\$51,500	\$280,000	H
37	I-405 South Bay Curve Improvements		FY 2045	FY 2047	sb	\$250,840	\$150,000	\$400,840	H
38	Green Line Eastern Extension (Norwalk)	p	FY 2046	FY 2052	sc	\$570,000	\$200,000	\$770,000	T
39	SF Valley Transportation Improvements	m	FY 2048	FY 2050	sf	\$0	\$106,800	\$106,800	T
40	Sepulveda Pass Westwood to LAX (Ph 3)	p	FY 2048	FY 2057	sc	\$3,800,000	\$65,000	\$3,865,000	T
41	Orange Line Conversion to Light Rail		FY 2051	FY 2057	sf	\$1,067,000	\$362,000	\$1,429,000	T
42	City of San Fernando Bike Master Plan		FY 2052	FY 2054	sf	\$0	\$5,000	\$5,000	H
43	Historic Downtown Streetcar		FY 2053	FY 2057	cc	\$0	\$200,000	\$200,000	T
44	Gold Line Eastside Ext. Second Alignment	p	FY 2053	FY 2057	sc	\$110,000	\$2,890,000	\$3,000,000	T
45	High Desert Multi-Purpose Corridor - LA County Segment	p	FY 2063	FY 2067	sc	\$32,982	\$1,845,718	\$1,878,700	H
46	Expenditure Plan Major Projects Subtotal					\$19,581,027	\$20,989,941	\$40,570,969	

Measures M Highway Projects - Subregional

For Reference Only	Project (Final Project to be Defined by the Environmental Process)	Notes	Available		Subregion	Local, State, Federal, Other Funding 2015\$	Measure — Funding 2015\$	Most Recent Cost Estimate 2015\$**	Modal Cod
			Ground-breaking Start Date†	Expected Opening Date (3 year range)					
	Multi-Year Subregional Programs			1 st yr of Range					
47	Metro Active Transport, Transit 1st/Last Mile Program	p	FY 2018	FY 2057	sc	\$0	\$857,500	\$857,500	H
48	Visionary Project Seed Funding	p	FY 2018	FY 2057	sc	\$0	\$20,000	\$20,000	T
49	Street Car and Circulator Projects	k,p	FY 2018	FY 2022	sc	\$0	\$35,000	\$35,000	T
50	Transportation System and Mobility Improve. Program		FY 2018	FY 2032	sb	\$0	\$293,500	\$293,500	H
51	Active Transportation 1st/Last Mile Connections Prog.		FY 2018	FY 2057	w	\$0	\$361,000	\$361,000	H
52	Active Transportation Program		FY 2018	FY 2057	nc	\$0	\$264,000	\$264,000	H
53	Active Transportation Program		FY 2018	FY 2057	gc	\$0	TBD	TBD	H
54	Active Transportation Program (Including Greenway Proj.)		FY 2018	FY 2057	sg	\$0	\$231,000	\$231,000	H
55	Active Transportation, 1st/Last Mile, & Mobility Hubs		FY 2018	FY 2057	cc	\$0	\$215,000	\$215,000	H
56	Active Transportation, Transit, and Tech. Program		FY 2018	FY 2032	lvm	\$0	\$32,000	\$32,000	T
57	Highway Efficiency Program		FY 2018	FY 2032	lvm	\$0	\$133,000	\$133,000	H
58	Bus System Improvement Program		FY 2018	FY 2057	sg	\$0	\$55,000	\$55,000	T
59	First/Last Mile and Complete Streets		FY 2018	FY 2057	sg	\$0	\$198,000	\$198,000	H
60	Highway Demand Based Prog. (HOV Ext. & Connect.)		FY 2018	FY 2057	sg	\$0	\$231,000	\$231,000	H
61	I-605 Corridor "Hot Spot" Interchange Improvements ®		FY 2018	FY 2057	gc	\$240,000	\$1,000,000	\$1,240,000	H
62	Modal Connectivity and Complete Streets Projects		FY 2018	FY 2057	av	\$0	\$202,000	\$202,000	H
63	South Bay Highway Operational Improvements		FY 2018	FY 2057	sb	\$600,000	\$500,000	\$1,100,000	H
64	Transit Program		FY 2018	FY 2057	nc	\$500,000	\$88,000	\$588,000	T
65	Transit Projects		FY 2018	FY 2057	av	\$0	\$257,100	\$257,100	T
66	Transportation System and Mobility Improve. Program		FY 2018	FY 2057	sb	\$0	\$350,000	\$350,000	H
67	North San Fernando Valley Bus Rapid Transit Improvements	p,s	FY 2019	FY 2023	sc	\$0	\$180,000	\$180,000	T
68	Subregional Equity Program	p,s	FY 2018	FY 2057	sc	TBD	TBD	\$1,196,000	T/H
69	Countywide BRT Projects Ph 1 (All Subregions)	l,p	FY 2020	FY 2022	sc	\$0	\$50,000	\$50,000	T
70	Countywide BRT Projects Ph 2 (All Subregions)	l,p	FY 2030	FY 2032	sc	\$0	\$50,000	\$50,000	T
71	Active Transportation Projects		FY 2033	FY 2057	av	\$0	\$136,500	\$136,500	H
72	Los Angeles Safe Routes to School Initiative		FY 2033	FY 2057	cc	\$0	\$250,000	\$250,000	H
73	Multimodal Connectivity Program		FY 2033	FY 2057	nc	\$0	\$239,000	\$239,000	H
74	Countywide BRT Projects Ph 3 (All Subregions)	l,p	FY 2040	FY 2042	sc	\$0	\$50,000	\$50,000	T
75	Arterial Program		FY 2048	FY 2057	nc	\$0	\$726,130	\$726,130	H
76	BRT and 1st/Last Mile Solutions e.g. DASH		FY 2048	FY 2057	cc	\$0	\$250,000	\$250,000	T
77	Freeway Interchange and Operational Improvements		FY 2048	FY 2057	cc	\$0	\$195,000	\$195,000	H
78	Goods Movement (Improvements & RR Xing Elim.)		FY 2048	FY 2057	sg	\$0	\$33,000	\$33,000	T
79	Goods Movement Program		FY 2048	FY 2057	nc	\$0	\$104,000	\$104,000	T
80	Goods Movement Projects		FY 2048	FY 2057	av	\$0	\$81,700	\$81,700	T
81	Highway Efficiency Program		FY 2048	FY 2057	nc	\$0	\$128,870	\$128,870	H
82	Highway Efficiency Program		FY 2048	FY 2057	sg	\$0	\$534,000	\$534,000	H
83	Highway Efficiency, Noise Mitig. and Arterial Projects		FY 2048	FY 2057	av	\$0	\$602,800	\$602,800	H
84	ITS/Technology Program (Advanced Signal Tech.)		FY 2048	FY 2057	sg	\$0	\$66,000	\$66,000	H
85	LA Streetscape Enhance. & Great Streets Program		FY 2048	FY 2057	cc	\$0	\$450,000	\$450,000	H
86	Modal Connectivity Program		FY 2048	FY 2057	lvm	\$0	\$68,000	\$68,000	H
87	Public Transit State of Good Repair Program		FY 2048	FY 2057	cc	\$0	\$402,000	\$402,000	T
88	Traffic Congestion Relief and Improvement Program		FY 2048	FY 2057	lvm	\$0	\$63,000	\$63,000	H
89	Traffic Congestion Relief/Signal Synchronization		FY 2048	FY 2057	cc	\$0	\$50,000	\$50,000	H
90	Arroyo Verdugo Projects to be Determined		FY 2048	FY 2057	av	\$0	\$110,600	\$110,600	H
91	Countywide BRT Projects Ph 4 (All Subregions)	p	FY 2050	FY 2052	sc	\$90,000	\$10,000	\$100,000	T
92	Countywide BRT Projects Ph 5 (All Subregions)	p	FY 2060	FY 2062	sc	\$0	\$100,000	\$100,000	T
93	Multi-Year Subregional Programs Subtotal					\$1,430,000	\$10,253,700	\$12,879,700	
94	GRAND TOTAL					\$21,011,027	\$31,243,641	\$53,450,669	

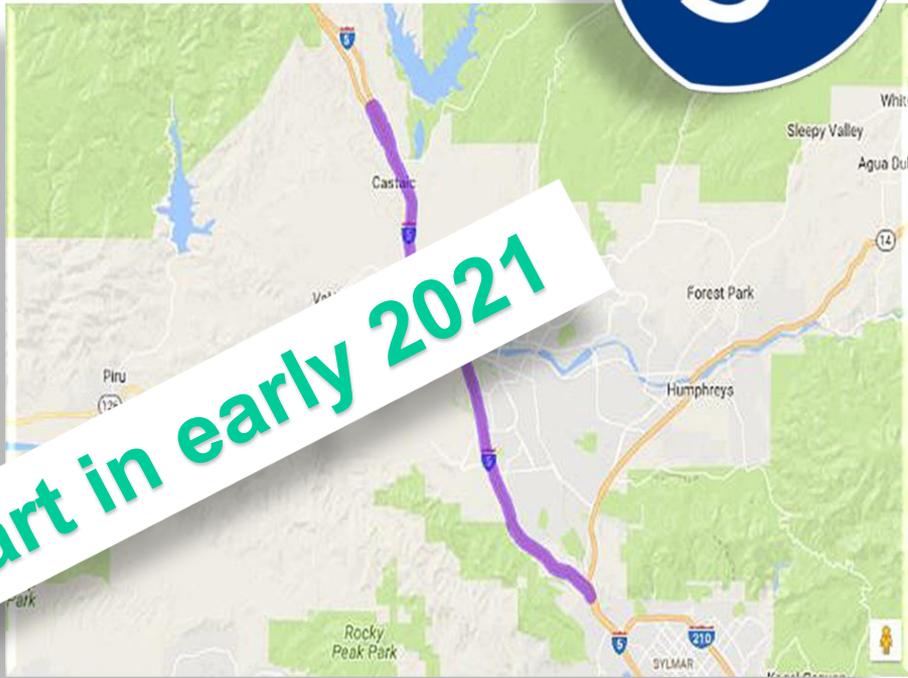


I-5 North HOV and Truck Lanes



- 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 W...
- Soundwalls and retr...

Construction start in early 2021



SR-57/SR-60 Interchange

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



HOV to HOV Connector



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: Early 2021
- Construction of Mission to I-10: Summer 2023



I-405

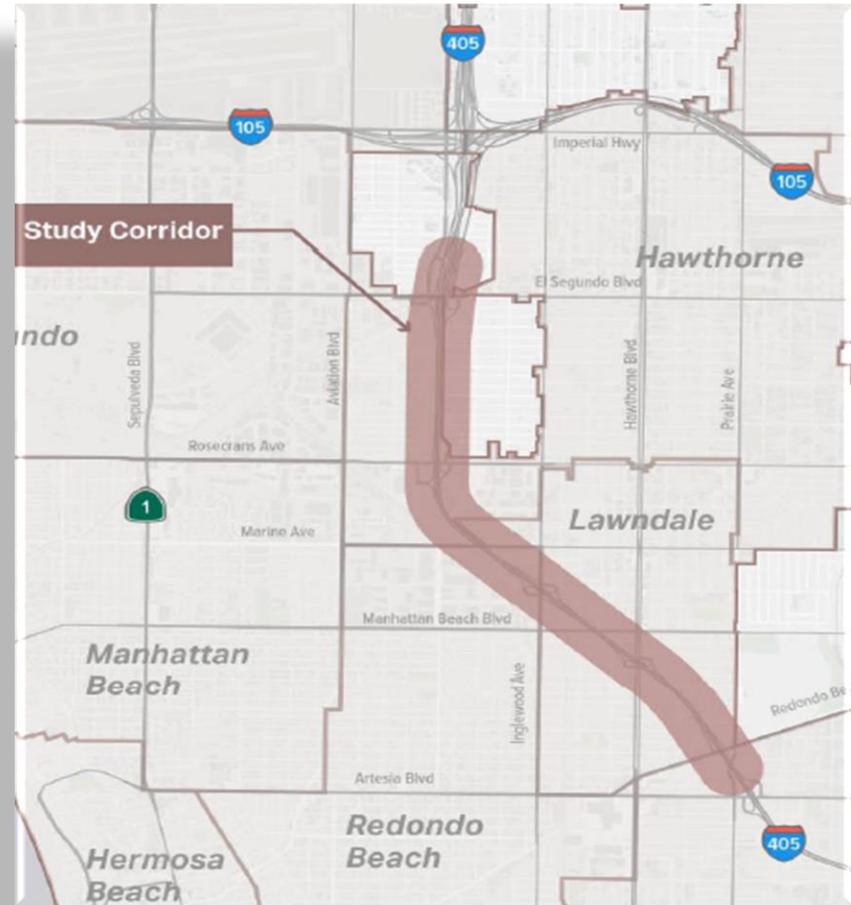


Project Summary

- 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
- Construction in 2023



"Hot Spots" Program



I-605/Valley Blvd.

SR-60/7th Ave.

I-605/Beverly Blvd.
Construction in 2022

WB-91 Alondra to Shoemaker

SR-91 Atlantic to Cherry

SR-91 Central to Acacia

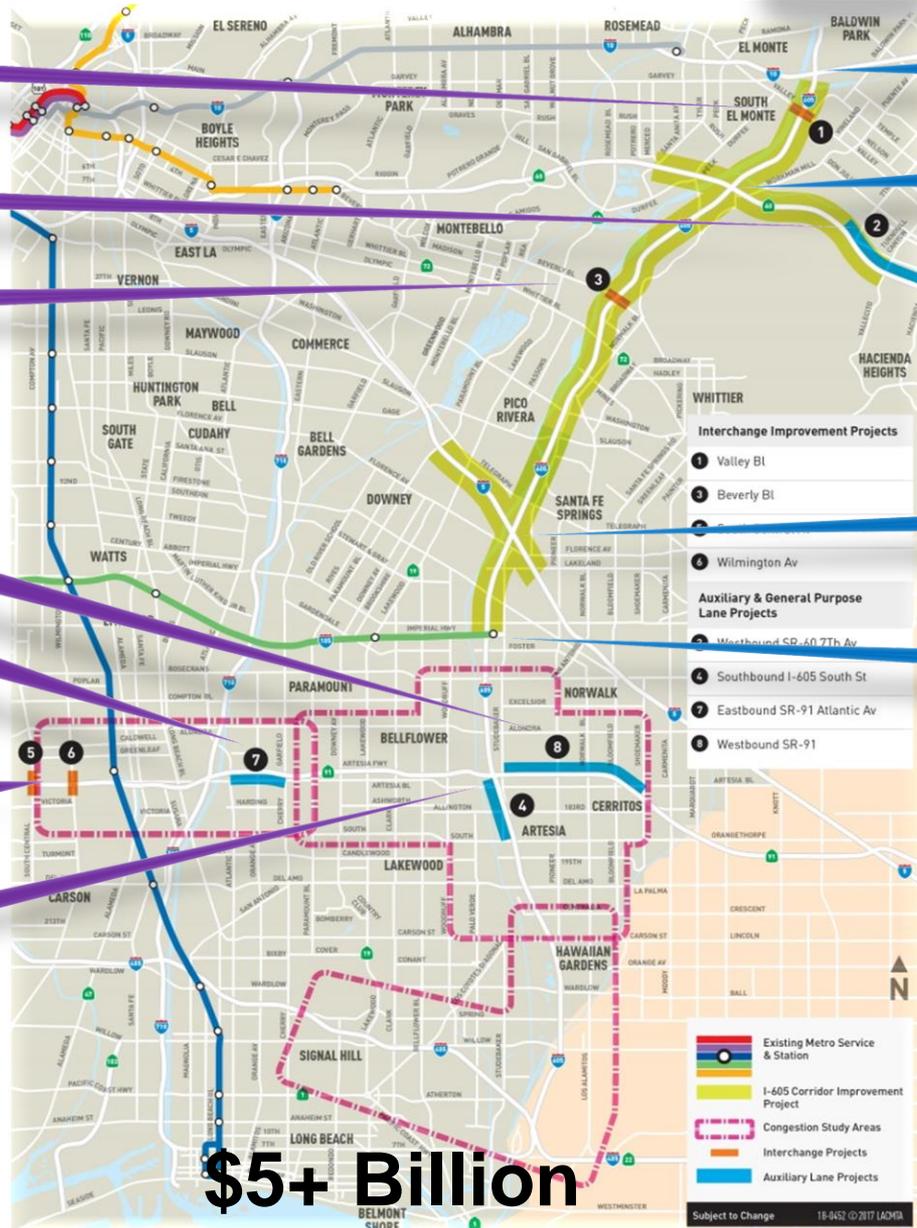
I-605/South St.
Construction in 2021

I-605/I-10

I-605/SR-60

I-605/I-5

I-605/I-105



PAED

+ Over 30 Arterial Intersection Improvements



\$5+ Billion

Subject to Change 18-0452 ©2017 LACMA

I-710

Project Summary

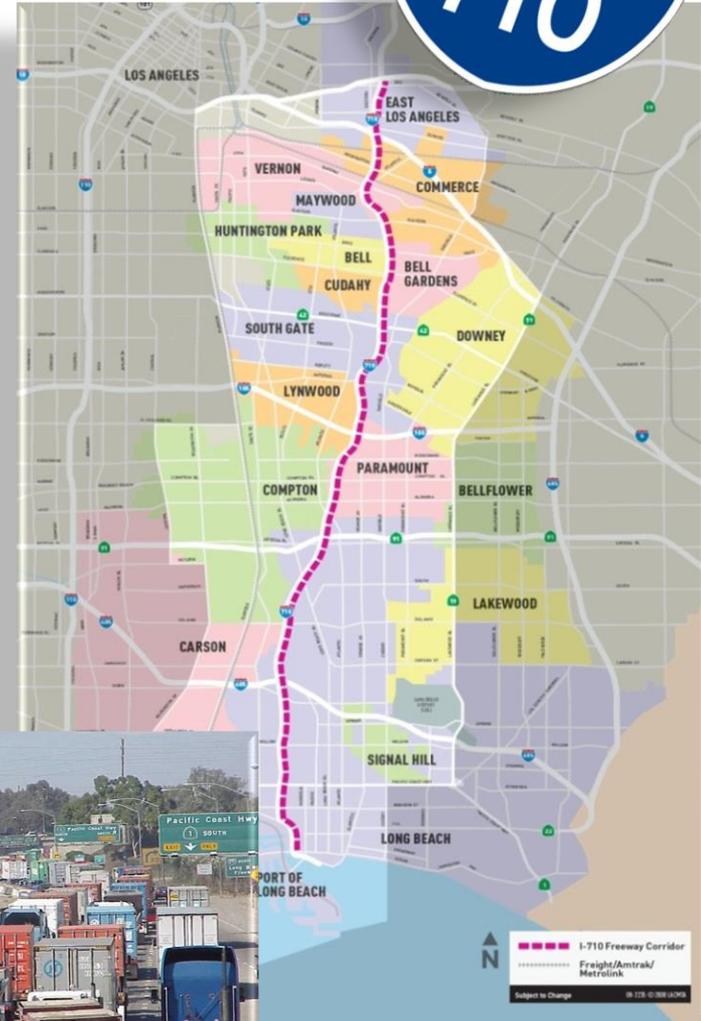
- In PAED phase
- 18 miles between the Ports of Long Beach and Los Angeles and the SR-60
- Locally-Preferred Alternative Selected:
 - 5C: One lane + upgrading
- Estimated Cost: \$6-\$11 billion
- Includes “Early Action” Projects
- \$420 mil in Measure R and \$500 mil. in Measure M

Status Update

- Final EIR/EIS: TBD
- Early Action projects: TBD



Metro



Early Action Projects



Project prioritization through collaboration with the corridor cities/GCCOG



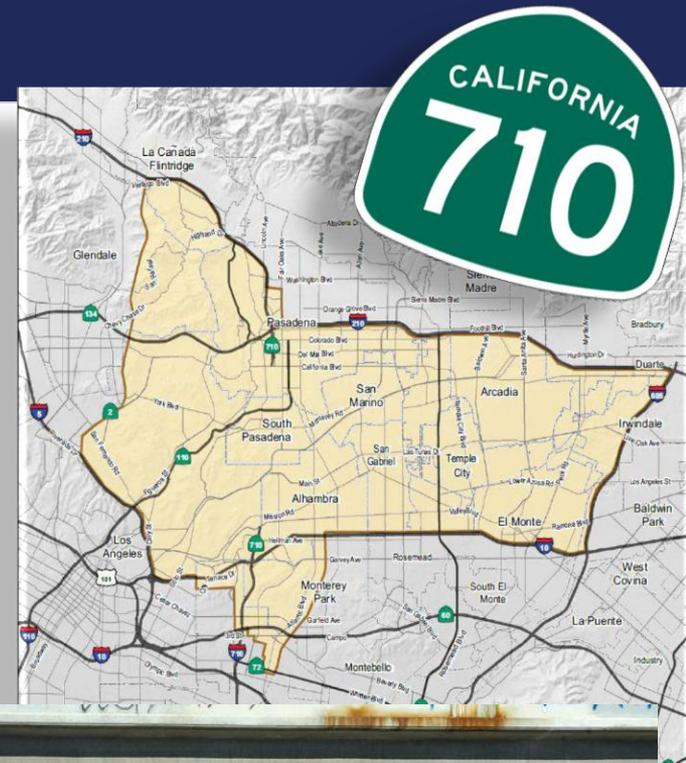
State Route 710 (North)

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

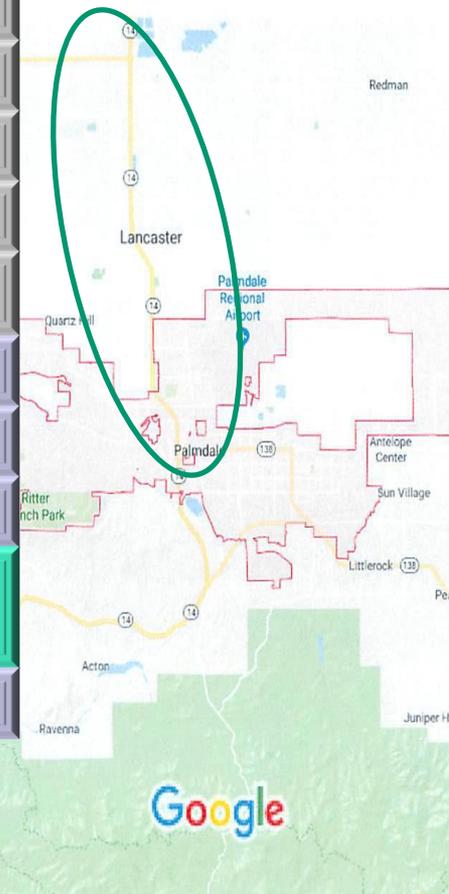
- FED and ROD approved/signed
- Programming of approved TSM/TDM and MIPs in 2019 and after
- Working with the San Gabriel cities and the City and County of LA to implement projects



M.R. SR-14/138 Projects



	Project	Construction Date (Estimate)
Lancaster	SR-138/SR-14 Avenue K Interchange	February 2022
	SR-138/SR-14 Avenue G Interchange	March 2021
	SR-138/SR-14 Avenue J Interchange	October 2020
	SR-138/SR-14 Avenue L Interchange	January 2022
	SR-138/SR-14 Avenue M Interchange	January 2022
Palmdale	SR-138/Palmdale Blvd., 5th to 10th Street East	October 2021
	SR-138/Palmdale Blvd., SB SR-14 Ramps	January 2021
	SR-138, 10th Street West Interchange	August 2022
	SR-138 Widening, Rancho Vista Blvd. to Palmdale Blvd.	Completed
	SR-138, Avenue N Overcrossing	May 2022



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 started
- Highway alignment alternative PSR on 138/18 to start in early 2021



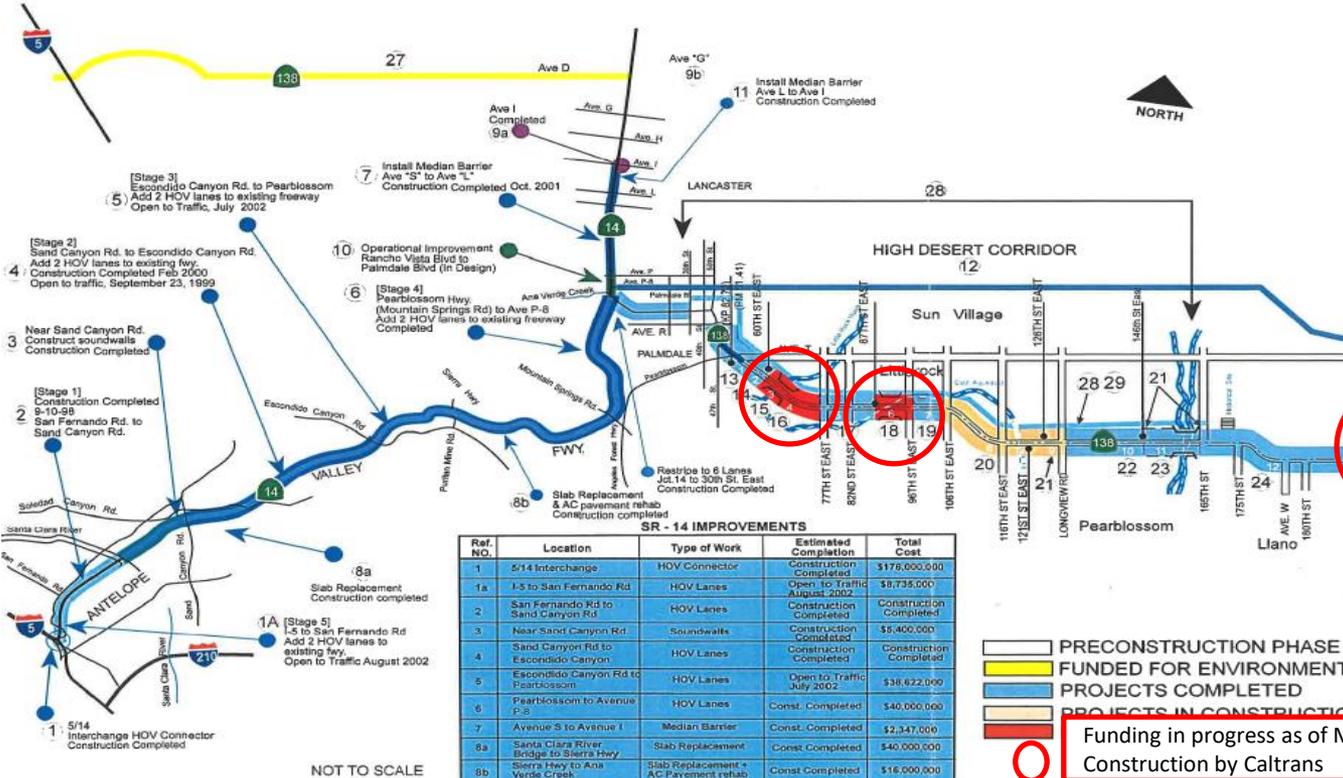
Metro



SR-138, SR-14 to LA/SB County Line



CALTRANS PROJECTS ON ROUTES 14 AND 138 IN LOS ANGELES AND SAN BERNARDINO COUNTIES

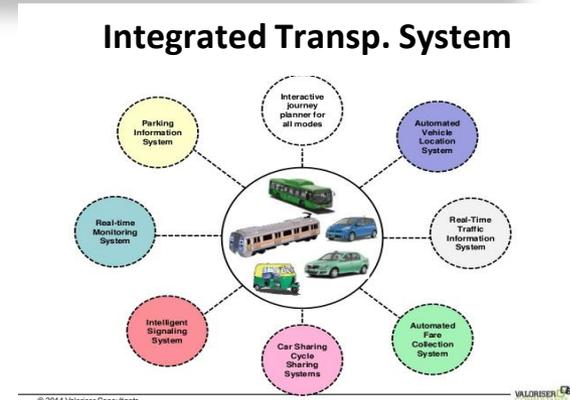
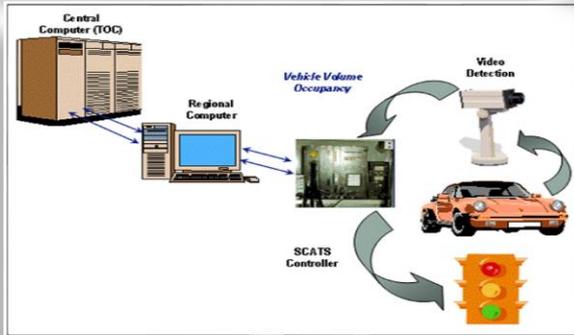


Ref. NO.	Location	Type of Work	Estimated Completion	Total Cost
1	5/14 Interchange	HOV Connector	Construction Completed	\$178,000,000
1A	J-5 to San Fernando Rd	HOV Lanes	Open to Traffic August 2002	\$8,735,000
2	San Fernando Rd to Sand Canyon Rd	HOV Lanes	Construction Completed	Construction Completed
3	Near Sand Canyon Rd	Soundwalls	Construction Completed	\$5,400,000
4	Sand Canyon Rd to Escondido Canyon	HOV Lanes	Construction Completed	Construction Completed
5	Escondido Canyon Rd to Pearblossom	HOV Lanes	Open to Traffic July 2002	\$38,622,000
6	Pearblossom to Avenue P-S	HOV Lanes	Const. Completed	\$40,000,000
7	Avenue S to Avenue I	Median Barrier	Const. Completed	\$2,347,000
8a	Santa Clara River Bridge to Sierra Hwy	Slab Replacement	Const. Completed	\$40,000,000
8b	Sierra Hwy to Ana Verde Creek	Slab Replacement + AC Pavement rehab	Const. Completed	\$16,000,000
10	Rancho Vista Blvd to Palmdale Blvd	Operational Improvement	Summer 2019	\$20,000,000
11	Lancaster Avenue L to Avenue I	Median Barrier	Const. Completed	\$1,711,000

Ref. NO.	Location	Type of Work	Status	Cost
12	LA-14 to SB-18 High Desert Corridor	Multi-phase	In Progress	\$1,100,000,000
13	From Ave R to 60th St (Extended Seg-1)	Pavement Rehabilitation	Completed	\$1,000,000
14	From 60th St. to E of Ave T (Seg. 2)	Widen to 4 lanes	Completed	\$10,000
15	From 0.3 mile West of Little Rock Wash to 77th St. Combine Seg. 3 & 4	Widen to 4 lanes	Not funded	\$24,500
16				
17	From 77th St to 87th St (Seg. 5)	Widen to 3 lanes	Completed	\$11,500
18	87th St. to 96th St (Seg. 6)	Widen to 4 lanes	Not funded	\$32,000
19	From 96th St to 106th St (Seg. 7)	Widen to 4 lanes	Summer 2009	\$10,000
20	from 0.7 mile West of 121st St. to Longview Rd Combine Segs 8&9	Widen to 4 lanes	Fall 2018	\$20,200
21				
22	From Longview Rd to 145th St (Seg. 10)	Replace Bridge and Widen Highway to 4 lanes	Completed	\$9,000
23	Twin Bridge (Seg. 11)	Widen to 4 lanes	Completed	\$24,000
24	From 165th to 190th St. (Seg. 12)	Widen to 4 lanes	Completed	\$39,811
25	From 185th St. to SR-18 Junction (Seg. 13)	Widen to 4 lanes	Not funded	\$62,000
26	Jet 18 to SB County Line	Widen roadway and Pave Boulder	Summer 2017	\$30,300
27	I-5 to LA 14	Widen to 6 lanes	PAID Summer 2017	\$1,100,000
28	LA-138 from 30th St E to 185th St E	Cold plane and overlay	Completed	\$19,200
29	LA-138 from 30th St E to 155th St E	ADA compliance	Winter 2019	\$12,000



Transportation Technology/Op. Improvements



Bucket 1 – Work to Continue

Health and safety for customers and employees

- PPE
- Cleaning services
- Additional expenses directly related to COVID-19

Operating and maintaining bus and rail services per Transit Operations Plan

Federal and State regulatory required activities

Legally required payments (contractual obligations)

- Debt service
- Subsidies
- Licenses, utilities, rental, etc.

Major infrastructure and projects under executed contracts

- Airport Metro Connector ⁽¹⁾
- Crenshaw/LAX ⁽¹⁾
- Division 20 Portal Widening and Turnback
- Gold Line Foothill Extension ⁽¹⁾
- I-5 North HOV (along SR-134 to Buena Vista area) ⁽¹⁾
- I-5 South HOV (I-605 to Orange County line) ⁽¹⁾
- Light Rail Vehicle Acquisition Program
- Link US (Phase 1 only)
- Metro Bus Fleet Replacement (incl. electrification for buses and infrastructure for Orange Line)
- Patsaouras Bus Station
- Purple Line Extension ⁽¹⁾
- Regional Connector ⁽¹⁾
- Soundwall Package 11 ⁽¹⁾
- SR-138 Corridor project in construction ⁽¹⁾
- Willowbrook/Rosa Parks Station Upgrade & Mezzanine



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Bucket 2 - Projects Delayed

Highway / Street Improvements

- Adams Flyover
- Alameda Corridor East grade separation phase 2 ⁽¹⁾
- Centinela grade separation
- Countywide Soundwall Noise Studies ⁽¹⁾
- Eastside Light Rail Access ⁽¹⁾
- First / Last Mile (PLE and others) ⁽¹⁾
- I-105 ExpressLanes ⁽¹⁾
- I-210 Barriers
- I-5 Capacity Enhancements (SR14 to Parker Road) ⁽¹⁾
- I-5 Corridor Improvement I-605 to I-710 ⁽¹⁾
- I-605 Hotspots (incl SR-91 interchange) ⁽¹⁾
- I-710 South Corridor Project ⁽¹⁾
- L.A. River (Bike) Path ⁽¹⁾
- La Canada Soundwalls
- Rail to Rail ATP
- Rail to River ATP
- Rosecrans/Marquardt Grade Separation ⁽¹⁾
- Soundwall Packages 12, 13, and 14 ⁽¹⁾
- South Bay Highway Operational Improvements ⁽¹⁾
- SR-138 new project initiation documents ⁽¹⁾
- SR-57 / SR-60 Interchange Improvements ⁽¹⁾
- SR-71 GAP - Mission Blvd to San Bernardino County Line ⁽¹⁾



Metro

Additional Engagements

Additional Regional Projects

- SR-91, Shoemaker to Alondra
- SR-91, Atlantic to Cherry
- SR-91, Central to Acacia
- Soundwall Package 10
- I-710 Soundwall Package 2
- I-710 Soundwall Package 3
- ...

Supporting Other Metro Projects/Programs

- Next Gen Bus
- I-210 Safety Barrier
- Regional Planning
- LRTP/SRTP
- ExpressLanes
- ...

Local Projects

- Local Intersections
 - City of Whittier
 - City of San Gabriel
 - City of South Gate
 - City of Compton
 - City of Lawndale
- ... More to come



Metro

Progress

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

CONSTRUCTION 6+

- *I-5 HOV Lanes; SR-14 to Parker Road*
- *I-605/South Street Interchange Improvements*
- *SR-138 Segment 6*
- *Soundwall Pkg. 10*
- *I-710 Soundwall Package 2*
- *I-710 Soundwall Package 3*

ENVIRONMENTAL 7+

- *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*
- *Imperial Hwy Corridor Capacity Enhancements-
Lynwood*
- *SR-138/SR-14 Avenue G Interchange*
- *SR-138/SR-14 Avenue L Interchange*
- *Local Projects*

DESIGN 20+

- *SR-57/SR-60 Interchange Improvements*
- *SR-60/7th Avenue Interchange Improvements*
- *SR-72 (Whittier Blvd.) @Painter and S.F. Springs Rd.*
- *SR-91 WB Improvements, Shoemaker to I-605*
- *SR-91 EB Improvements, Atlantic to Cherry*
- *SR-91 Improvements, Central Avenue to Acacia*
- *I-105 ICM*
- *SR-138 (Palmdale Blvd.), 5th St. to 10th Street East*
- *SR-138/SR-14 SB Ramps at Palmdale Blvd.*
- *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*
- *local Projects*



Metro

Progress

OTHER

- *Freight Advanced Traveler Information System* *Study/Technology Implementation*
- *SR-710 Mobility Improvement Projects* *In Progress*
- *I-710 Early Action Projects (Roadway/Interchanges)* *TBD*

Discussions

