

# **Metro**

*Los Angeles County Metropolitan Transportation Authority  
One Gateway Plaza  
3rd Floor Board Room*



**Metro**

## **Agenda - Final**

**Wednesday, December 4, 2019**

**10:30 AM**

**One Gateway Plaza, Los Angeles, CA 90012,  
3rd Floor, Metro Board Room**

### **Measure M Independent Taxpayer Oversight Committee**

*Carlos Bohorquez – Chair  
Linda Briskman – Vice Chair  
Ryan Campbell  
Emilie H. Elias  
Virginia Tanzmann*

**METROPOLITAN TRANSPORTATION AUTHORITY BOARD RULES**  
**(ALSO APPLIES TO BOARD COMMITTEES)**

**PUBLIC INPUT**

A member of the public may address the Board on agenda items, before or during the Board or Committee's consideration of the item for one (1) minute per item, or at the discretion of the Chair. A request to address the Board must be submitted electronically using the tablets available in the Board Room lobby. Individuals requesting to speak will be allowed to speak for a total of three (3) minutes per meeting on agenda items in one minute increments per item. For individuals requiring translation service, time allowed will be doubled. The Board shall reserve the right to limit redundant or repetitive comment.

The public may also address the Board on non agenda items within the subject matter jurisdiction of the Board during the public comment period, which will be held at the beginning and/or end of each meeting. Each person will be allowed to speak for one (1) minute during this Public Comment period or at the discretion of the Chair. Speakers will be called according to the order in which their requests are submitted. Elected officials, not their staff or deputies, may be called out of order and prior to the Board's consideration of the relevant item.

Notwithstanding the foregoing, and in accordance with the Brown Act, this agenda does not provide an opportunity for members of the public to address the Board on any Consent Calendar agenda item that has already been considered by a Committee, composed exclusively of members of the Board, at a public meeting wherein all interested members of the public were afforded the opportunity to address the Committee on the item, before or during the Committee's consideration of the item, and which has not been substantially changed since the Committee heard the item.

In accordance with State Law (Brown Act), all matters to be acted on by the MTA Board must be posted at least 72 hours prior to the Board meeting. In case of emergency, or when a subject matter arises subsequent to the posting of the agenda, upon making certain findings, the Board may act on an item that is not on the posted agenda.

**CONDUCT IN THE BOARD ROOM** - The following rules pertain to conduct at Metropolitan Transportation Authority meetings:

**REMOVAL FROM THE BOARD ROOM** The Chair shall order removed from the Board Room any person who commits the following acts with respect to any meeting of the MTA Board:

- a. Disorderly behavior toward the Board or any member of the staff thereof, tending to interrupt the due and orderly course of said meeting.
- b. A breach of the peace, boisterous conduct or violent disturbance, tending to interrupt the due and orderly course of said meeting.
- c. Disobedience of any lawful order of the Chair, which shall include an order to be seated or to refrain from addressing the Board; and
- d. Any other unlawful interference with the due and orderly course of said meeting.

**INFORMATION RELATING TO AGENDAS AND ACTIONS OF THE BOARD**

Agendas for the Regular MTA Board meetings are prepared by the Board Secretary and are available prior to the meeting in the MTA Records Management Department and on the Internet. Every meeting of the MTA Board of Directors is recorded and is available at [www.metro.net](http://www.metro.net) or on CD's and as MP3's for a nominal charge.

## DISCLOSURE OF CONTRIBUTIONS

The State Political Reform Act (Government Code Section 84308) requires that a party to a proceeding before an agency involving a license, permit, or other entitlement for use, including all contracts (other than competitively bid, labor, or personal employment contracts), shall disclose on the record of the proceeding any contributions in an amount of more than \$250 made within the preceding 12 months by the party, or his or her agent, to any officer of the agency, additionally PUC Code Sec. 130051.20 requires that no member accept a contribution of over ten dollars (\$10) in value or amount from a construction company, engineering firm, consultant, legal firm, or any company, vendor, or business entity that has contracted with the authority in the preceding four years. Persons required to make this disclosure shall do so by filling out a "Disclosure of Contribution" form which is available at the LACMTA Board and Committee Meetings. Failure to comply with this requirement may result in the assessment of civil or criminal penalties.

## ADA REQUIREMENTS

Upon request, sign language interpretation, materials in alternative formats and other accommodations are available to the public for MTA-sponsored meetings and events. All requests for reasonable accommodations must be made at least three working days (72 hours) in advance of the scheduled meeting date. Please telephone (213) 922-4600 between 8 a.m. and 5 p.m., Monday through Friday. Our TDD line is (800) 252-9040.

## LIMITED ENGLISH PROFICIENCY

A Spanish language interpreter is available at all Committee and Board Meetings. All other languages must be requested 72 hours in advance of the meeting by calling (213) 922-4600 or (323) 466-3876.



**323.466.3876 x2**

*Español*

**323.466.3876 x3**

한국어

日本語

中文

русский

ភាសាខ្មែរ

ภาษาไทย

Tiếng Việt

ភាសាខ្មែរ

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**NOTE: ACTION MAY BE TAKEN ON ANY ITEM IDENTIFIED ON THE AGENDA**

## CALL TO ORDER

### ROLL CALL

1. **SUBJECT: REMARKS BY THE CHAIR** [2019-0851](#)

**RECOMMENDATION**

RECEIVE remarks by the Chair.

2. **SUBJECT: MINUTES** [2019-0852](#)

**RECOMMENDATION**

APPROVE Minutes of the Measure M Independent Taxpayer Oversight Committee Meeting held September 4, 2019.

**Attachments:** [Minutes - September 4, 2019](#)

3. **SUBJECT: ORAL REPORT ON TRANSIT AND HIGHWAY PROJECTS STATUS (BRIAN BOUDREAU / ABDOLLAH ANSARI)** [2019-0832](#)

**RECOMMENDATION**

RECEIVE Oral Report on Transit and Highway Projects Status

**Attachments:** [Attachment 1 - Transit and Highway Projects Status Report](#)

4. **SUBJECT: ORAL REPORT ON MEASURE M LOCAL RETURN (SUSAN RICHAN)** [2019-0835](#)

**RECOMMENDATION**

RECEIVE Oral Report on Measure M Local Return.

**Attachments:** [Attachment A - Measure M Local Return.pdf](#)

5. **SUBJECT: ORAL REPORT ON TRANSIT OPERATIONS AND MAINTENANCE (CONAN CHEUNG)** [2019-0846](#)

**RECOMMENDATION**

RECEIVE Oral Report on Transit Operations and Maintenance - FY20 Q1.

**Attachments:** [Measure M Presentation - KPI Overview-FY20 Q1](#)  
[Attachment A - Measure M Reporting Metro Bus, Rail and SGR \(FY20 Q1\)](#)

6. **SUBJECT: ORAL REPORT ON STATE OF GOOD REPAIR (DENISE LONGLEY)** [2019-0837](#)

**RECOMMENDATION**

RECEIVE Oral Report on State of Good Repair

Attachments: [2019 11-15 MMITO Committee Presentation SOGR 190904 dl](#)

7. **SUBJECT: ORAL REPORT ON ACTIVE TRANSPORTATION PROGRAM (TONY JUSAY)** [2019-0825](#)

**RECOMMENDATION**

RECEIVE Oral Report on Active Transportation Program

8. **SUBJECT: ORAL REPORT ON OFFICE OF EXTRAORDINARY INNOVATION (JOSHUA SCHANK)** [2019-0864](#)

**RECOMMENDATION**

RECEIVE Oral Report on Office of Extraordinary Innovation

- SUBJECT: GENERAL PUBLIC COMMENT** [2019-0847](#)

RECEIVE General Public Comment

Consideration of items not on the posted agenda, including: items to be presented and (if requested) referred to staff; items to be placed on the agenda for action at a future meeting of the Committee or Board; and/or items requiring immediate action because of an emergency situation or where the need to take immediate action came to the attention of the Committee subsequent to the posting of the agenda.

**COMMENTS FROM THE PUBLIC ON ITEMS OF PUBLIC INTEREST WITHIN COMMITTEE'S SUBJECT MATTER JURISDICTION**

**Adjournment**



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Los Angeles County  
Metropolitan Transportation  
Authority  
One Gateway Plaza  
3rd Floor Board Room  
Los Angeles, CA

## Board Report

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**File #:** 2019-0852, **File Type:** Minutes

**Agenda Number:** 2.

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### MEASURE M INDEPENDENT TAXPAYER OVERSIGHT COMMITTEE DECEMBER 4, 2019

**SUBJECT: MINUTES**

**RECOMMENDATION**

APPROVE Minutes of the Measure M Independent Taxpayer Oversight Committee Meeting held September 4, 2019.



**Metro**

## Agenda - Minutes

### Measure M Independent Taxpayers Oversight Committee Meeting

Wednesday, September 4, 2019

10:30 a.m.

Metro Board Room, 3<sup>rd</sup> Fl.

Metro Headquarters Building

One Gateway Plaza, Los Angeles, 90012

#### Committee Members Present:

Linda Briskman – Vice Chair

Ryan Campbell

Virginia Tanzmann

#### Public Meeting

1. Chair Person’s Introductory Remarks – NO REPORT due to the absence of the Chair.

VT	EE	CB (Chair)	LB	RC
P	A	A	P	P

2. APPROVE March 6, 2019 Workshop Meeting Summary – CARRIED OVER

VT	EE	CB (Chair)	LB	RC
P	A	A	P	P

3. RECEIVED Oral Report on Transit Operations and Maintenance (C. Cheung)

Because of the large closure, had to replace with 60-70 busses and 100 operator assignments. Additionally, 300 buses are reaching 18 years old and we are having to extend their use. Numbers will come up as we receive our new buses.

The Board passed a motion last month to form a working group with LADOT to look at speed and reliability issues. Added a bus lane on Spring Street to improve speed. Replaced all original Blue Line cars so miles between problems is improving.

Member Campbell asked the volume of bus v. rail. Conan Cheung responded that it is about 850,000 vs. 350,000 or 2/3 bus vs. 1/3 rail.

Member Briskman asked about the conversion from bus to rail when a new line opens.

Conan said there is some drop, but when aggregated there is always higher ridership.

VT	EE	CB (Chair)	LB	RC
P	A	A	P	P

4. RECEIVED Oral Report on FY20 Budget (T. Mengle)

Revenues:

- Sales tax and bonds = 70%
- State funding and grants = 20%
- Fares, advertising and express lanes = 7%

Sales taxes provide three quarters of our resources - \$844 million in FY19 and should be the same in FY20

Expenditures:

- Infrastructure developed = 36%
- Metro transit = 25%
- Local Muni and transit partners – 20%

Crenshaw/LAX to be open by the end of FY20. New Blue work is on schedule And should be back in full operation in a few months.

Continue to receive new CNG buses and some ZEB's which will go to the Orange Line.

(Continued on next page)



(Item 4 – continued from previous page)

NextGen study is continuing. Changes from that study will be implemented next year.

Member Ryan inquired about the cause of the passenger fare decrease and was told that ridership was the driver – lots of mode choices.

<b>VT</b>	<b>EE</b>	<b>CB (Chair)</b>	<b>LB</b>	<b>RC</b>
P	A	A	P	P

5. RECEIVED Oral Report on Local Return (S. Richan)

Working to help cities pass their audits.

Projects in Glendale – Train station and safe routes to school

<b>VT</b>	<b>EE</b>	<b>CB (Chair)</b>	<b>LB</b>	<b>RC</b>
P	A	A	P	P

6. RECEIVED Oral Report on Transit and Highway Project Status (B. Boudreau / A. Ansari)

Close to 100 projects in the works. Purple Line Section 3 ending at the VA should be completed by 2027.

Gold Line Foothill extension to Pomona – Claremont/Montclair is uncertain.

Metro Connector construction should start in 2020 and end in 2034.

West Santa Ana Branch downtown to Artesia completing environmental this year.

<b>VT</b>	<b>EE</b>	<b>CB (Chair)</b>	<b>LB</b>	<b>RC</b>
P	A	A	P	P

7. RECEIVED Oral Report on Active Transportation Program (C. Aguirre)

VT	EE	CB (Chair)	LB	RC
P	A	A	P	P

8. RECEIVED Oral Report on State of Good Repair (D. Longley)

State of good repair = able to perform its design function, does not pose a safety risk. Life cycle investment needs or maintenance and rehab. Current backlog of \$2.3 billion.

Member Campbell requested the replacement cost estimate for the current asset list.

Member Ryan requested current estimate for our current asset list.

Member Briskman asked what never gets addressed.

Staff responded that action is driven by safety and overall need, but code and regulation changes are always coming.

VT	EE	CB (Chair)	LB	RC
P	A	A	P	P

9. Public Comment – NONE

VT	EE	CB (Chair)	LB	RC
P	A	A	P	P

10. Meeting Adjourned at 11:40 A.M.

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**Board Report**

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**File #:** 2019-0832, **File Type:** Oral Report / Presentation

**Agenda Number:** 3.

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**MEASURE M INDEPENDENT TAXPAYER OVERSIGHT COMMITTEE  
DECEMBER 4, 2019**

**SUBJECT: ORAL REPORT ON TRANSIT AND HIGHWAY PROJECTS STATUS (BRIAN  
BOUDREAU / ABDOLLAH ANSARI)**

**RECOMMENDATION**

RECEIVE Oral Report on Transit and Highway Projects Status

**ATTACHMENTS**

Attachment A - Transit and Highway Projects Status Report

# Measure M Independent Taxpayer Oversight Committee

## Transit and Highway Projects Status Report



**Brian Boudreau**  
Senior Executive Officer,  
Program Control

**Abdollah Ansari**  
Sr. Executive Officer,  
Highway Programs

December 4, 2019



# Transit

Brian Boudreau  
Sr. Executive Officer



Photo by Gayle Anderson/Metro



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# Westside Purple Line Extension Section 3 (Century City Constellation to Westwood/VA Hospital)



- Twin-bored tunnels and two new subway stations:
  - Westwood/UCLA
  - Westwood/VA Hospital
- \$3.61 billion budget
- Tunnel, Stations, Trackwork and Systems contracts have been awarded
- FFGA anticipated in early 2020: \$1.3 billion
- Forecast Revenue Service Date 2027

# Gold Line Foothill Extension Phase 2B

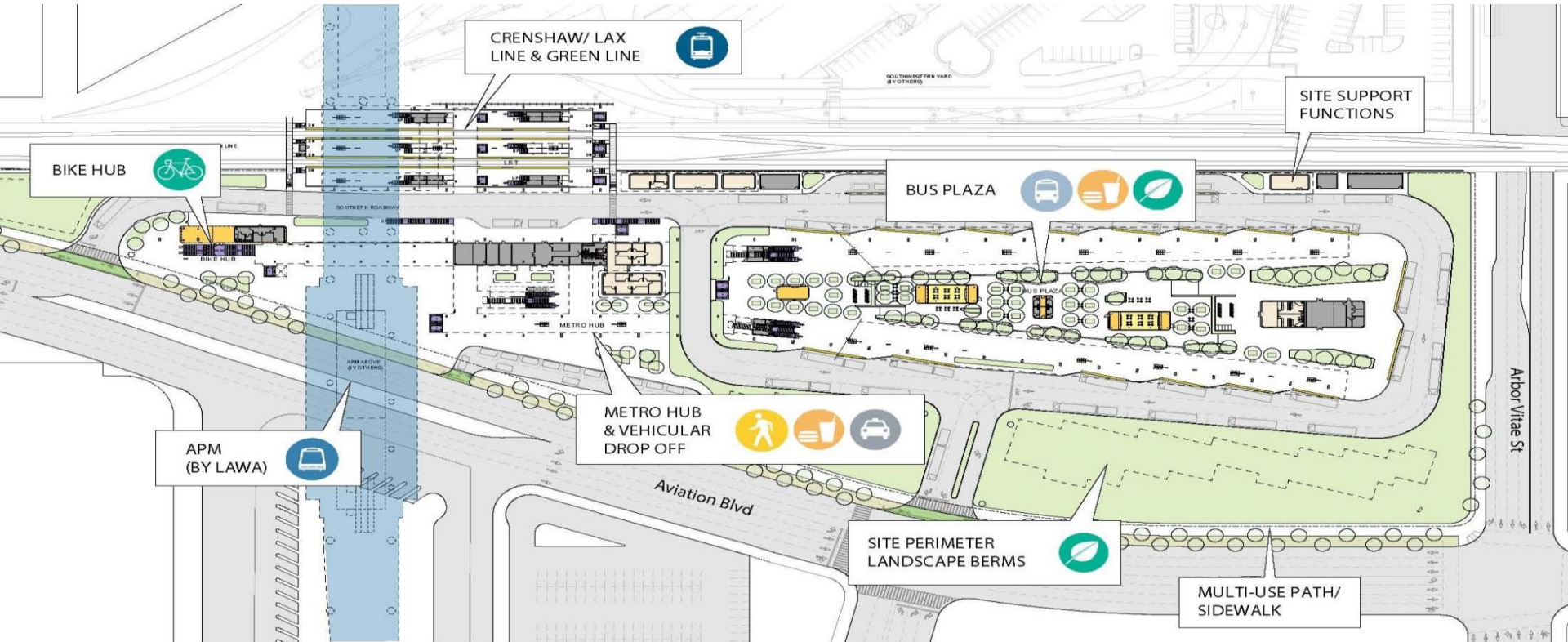
## Gold Line Foothill Construction Authority

Design Build Contract for Main Line, Stations, Systems - Awarded Oct. 2019  
Complete First Phase to Pomona 2026



# Airport Metro Connector

Design 2018 – Bid 2019 & Award 2020 – Construction 2020 – Complete 2024



- |   |   |  |   |
|---|---|--|---|
|  Passenger Amenities (Enclosed)     |  Station Staff Areas   |  Vertical Circulation                             |  Multi-use Path (Proposed) |
|  Passenger Waiting Areas (Enclosed) |  Station Support Areas |  Planters / Vegetation / Site Perimeter Landscape |   |

0' 50' 125' 250'





# East San Fernando Valley Transit Corridor

Award P.E. Contract – Summer 2019  
RFP Design Build Contract – Late 2020  
Begin Construction – Early 2022  
Complete – 2028



# West Santa Ana Transit Corridor

20 Mile Light Rail Line  
Union Station to Terminus in Artesia

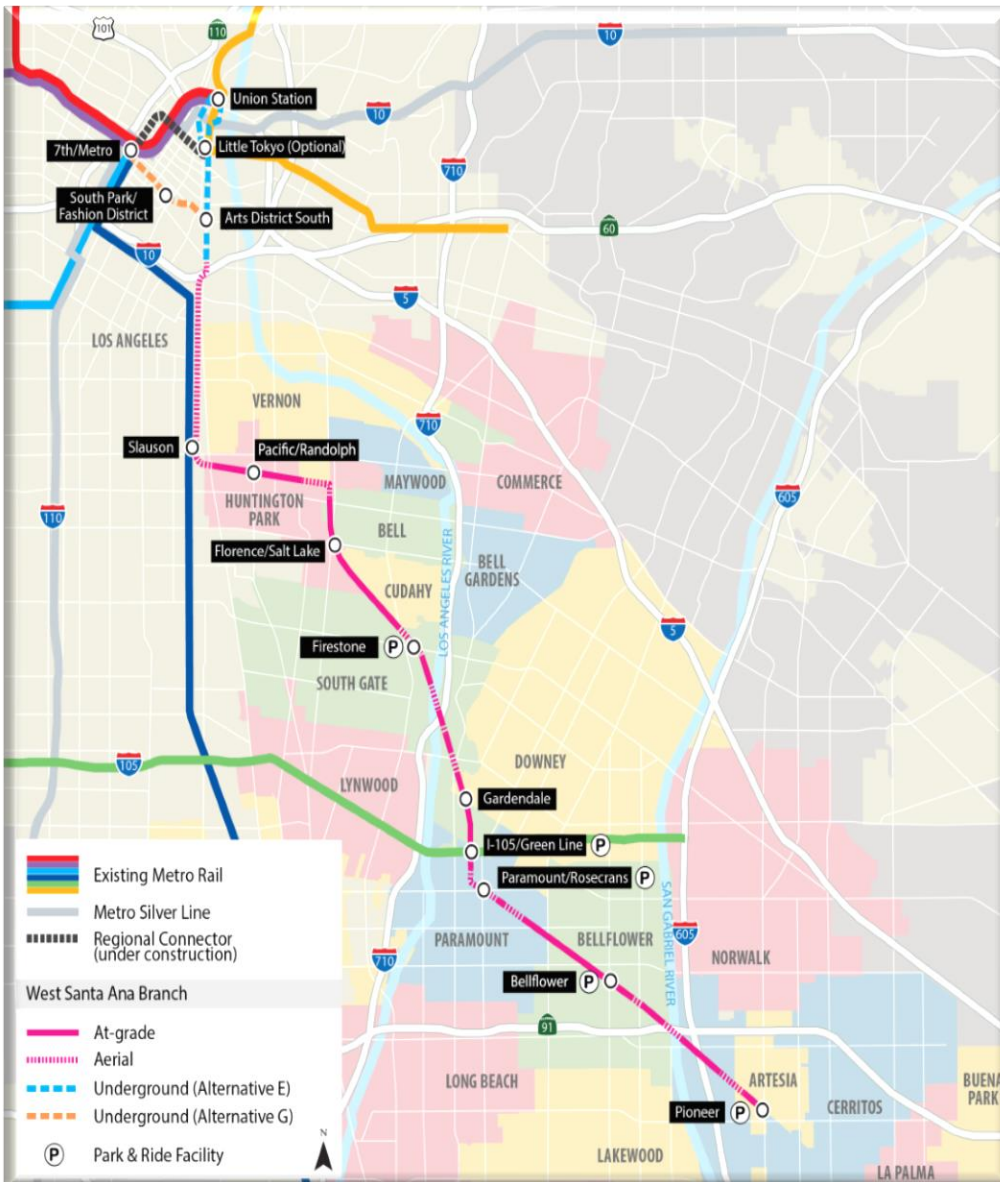
## Phase I

Long Range Transportation Plan  
Cost Estimate \$1.04B  
Environmental Complete -2019  
Engineering 2019 to Late 2021

## Phase 2

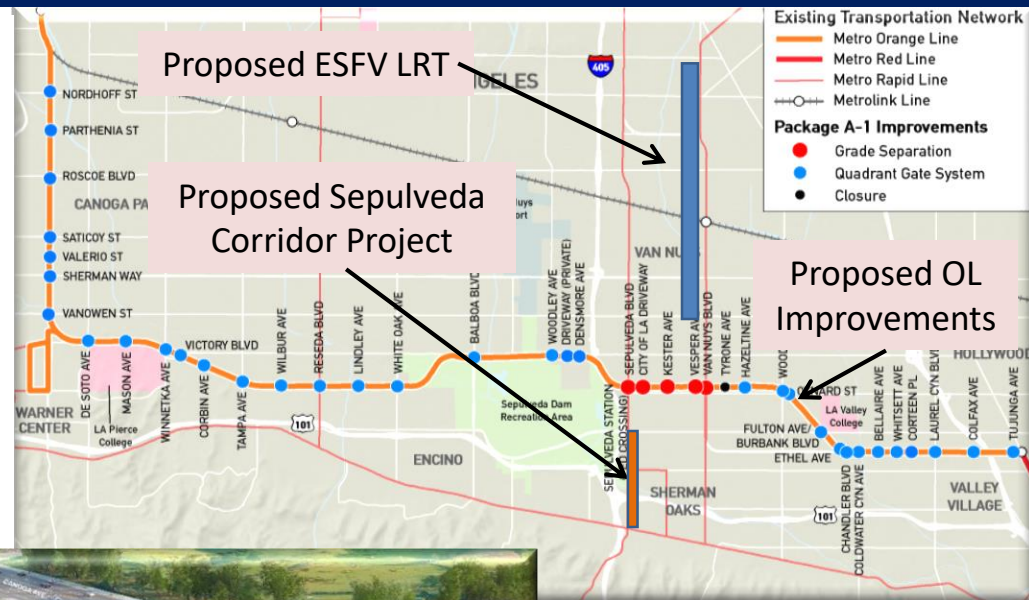
Long Range Transportation Plan  
Cost Estimate \$2.97B  
Update Environmental 2029

Metro Developing a P3 Package



# Orange Line BRT Improvements

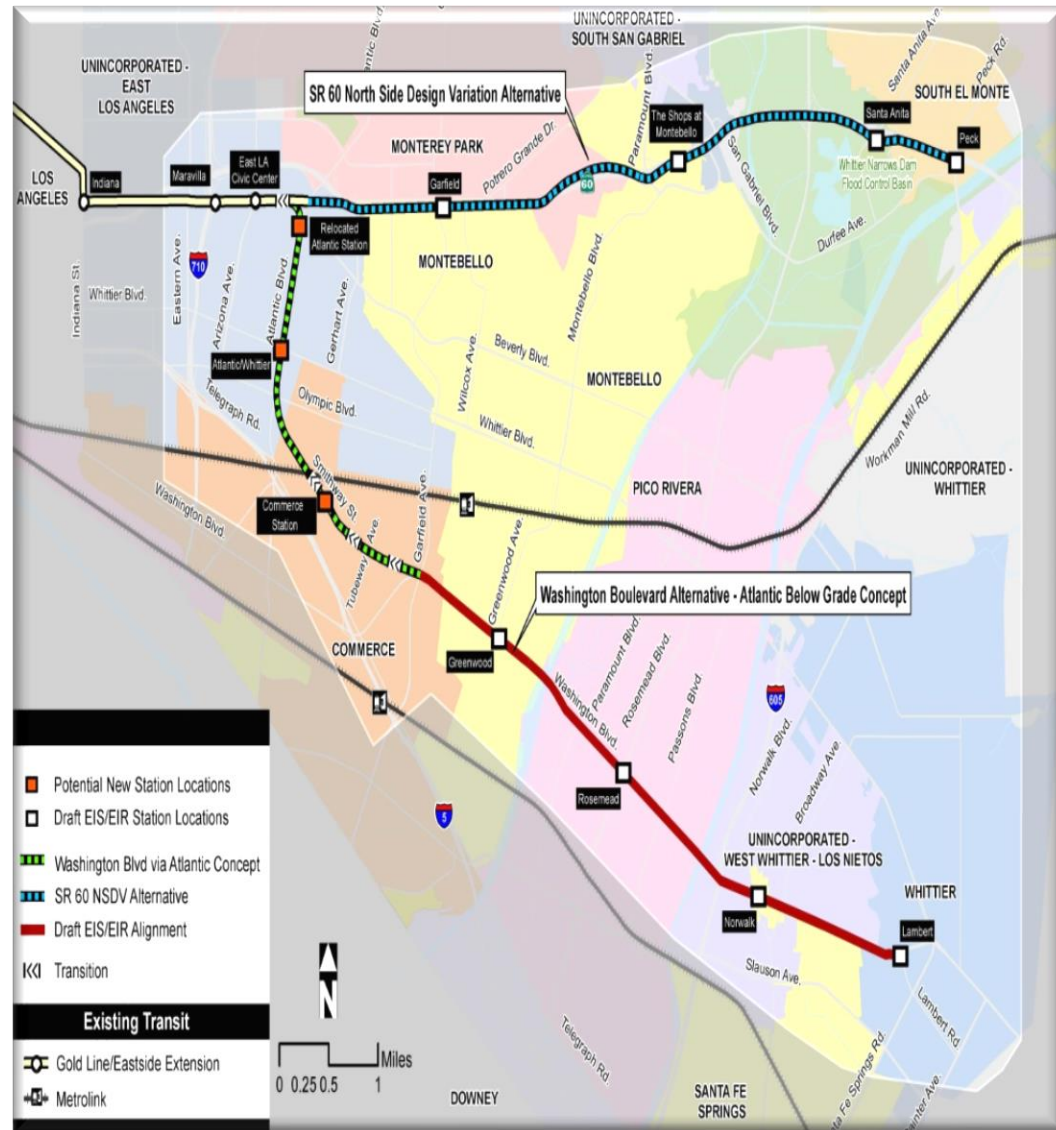
- Railroad-type gates at up to 35 intersections
- Aerial Stations at Sepulveda & Van Nuys
- Provisions for connections to ESFV LRT Terminal Station on Van Nuys
- Designed for future conversion to LRT
- Schedule: 30% Design for Sepulveda and Gate completed in 2019, Major construction to commence in 2021 and complete in 2025.



# Gold Line Eastside Extension Phase 2

Alignment Alternatives  
SR 60  
Washington Boulevard

Engineering 2025  
Construction One Alignment  
2029



# Green Line Extension to Torrance

- Redondo Station to Regional Transit Center in Torrance
- EIR 2019 - 2022, awarding Environmental with an option to do ACE and PE by early 2020
- Engineering 2022 - 2025
- Construction 2026 - 2030



# Sepulveda Pass Phases 1 & 2

- Feasibility Study 2018
- Environmental 2019 - 2021
- Engineering 2021 - 2024
- Pursuing P3 with PDA



# Measure M - Highways

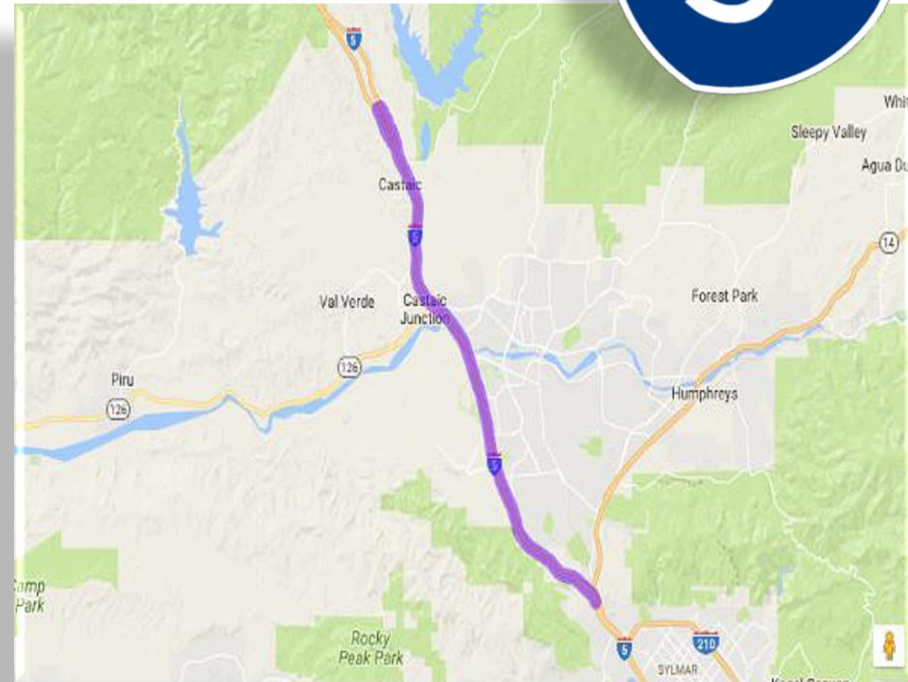
Abdollah Ansari  
Sr. Executive Officer



# 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
- Final Design approved in July 2019
- Construction: Summer 2020





# 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



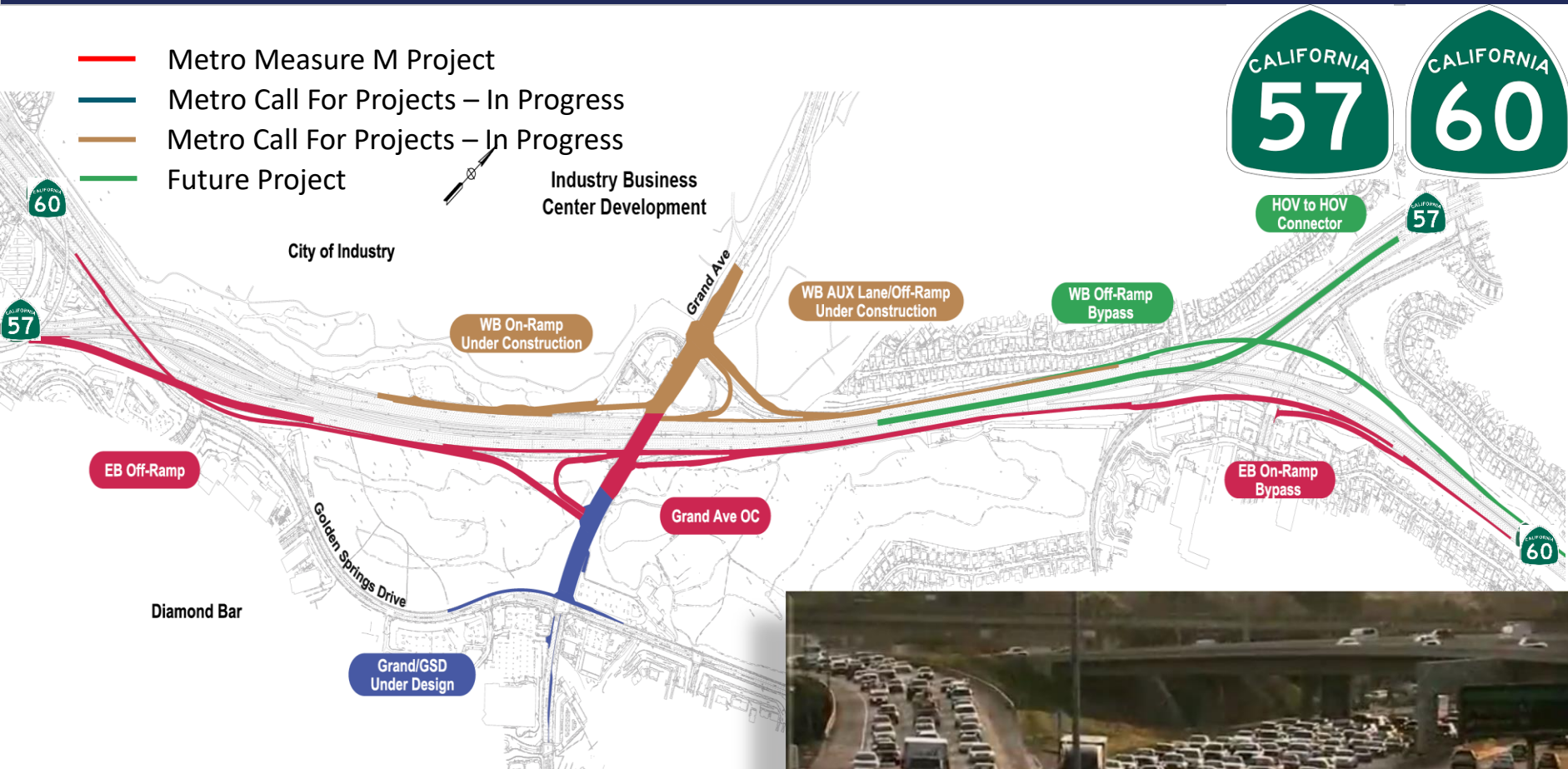
## Status Update

- Construction of Mission to SR-60: Summer 2020
- Construction of Mission to I-10: 2023



# SR-57/SR-60 Interchange

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



Construction: 2022



# I-710 (South)

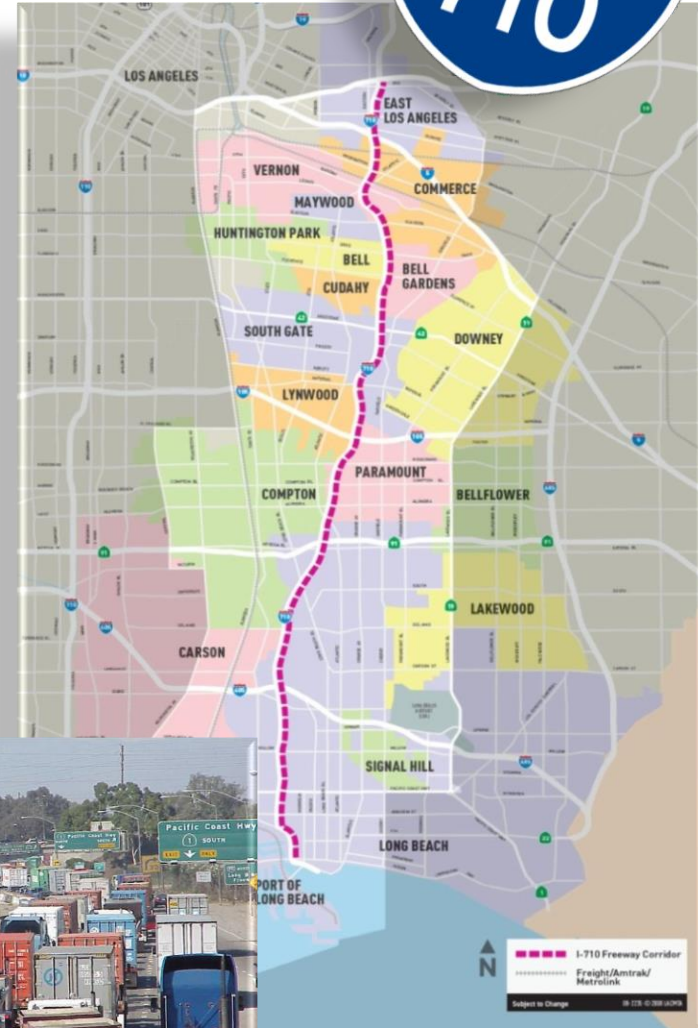


## Project Summary

- 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 final design starting upon approval of the final corridor ED or individual EDs and contingent upon no legal action preventing progress



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# I-605 Corridor

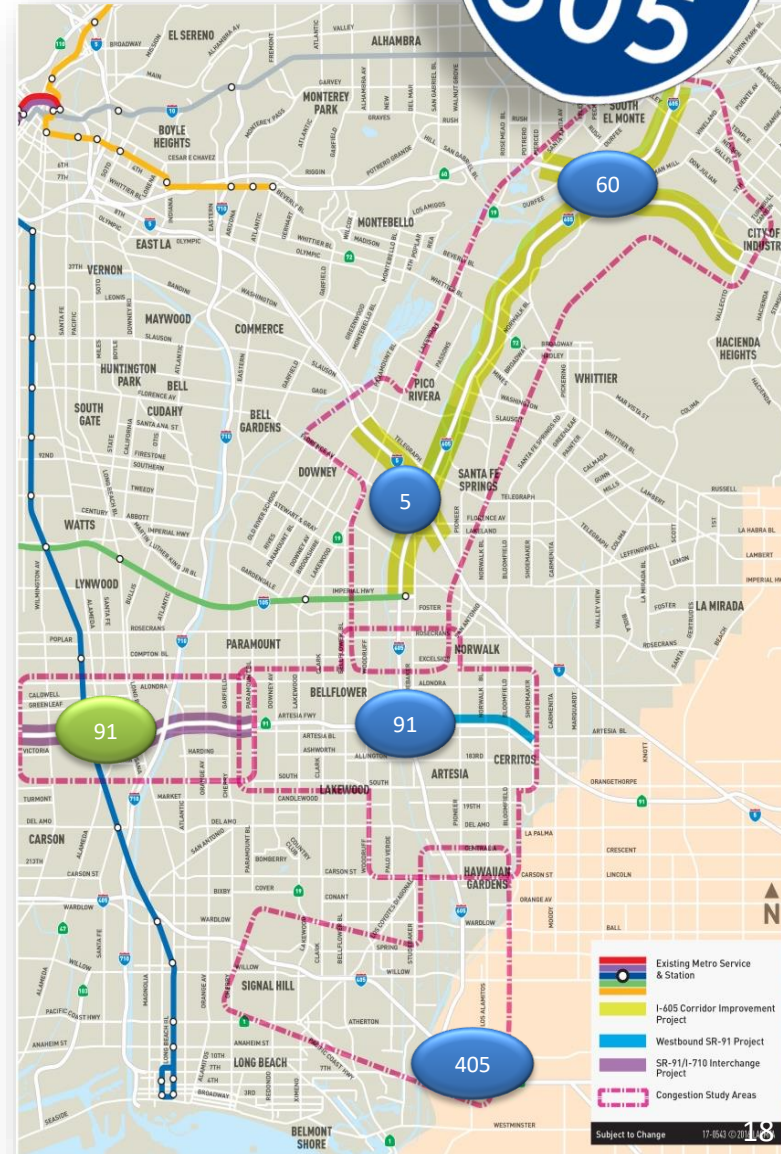


## Project Summary

- Freeway widening/additional lanes, ExpressLanes, ramp reconfigurations, arterial intersection enhancements, signage, and safety features
- Estimated total cost of projects in the I-605 corridor between I-105 and I-10: \$5+ billion

## Status Update

- Corridor environmental studies in progress – completion in 2021
- “Early Action” projects - PIDs, environmental clearance, and final design in progress



# “Hot Spots” Program



I-605/Valley Blvd.  
Construction in 2020

SR-60/7th Ave.

I-605/Beverly Blvd.  
Construction in 2021

WB-91 Alondra to  
Shoemaker

SR-91 Atlantic to  
Cherry

SR-91 Central to  
Acacia

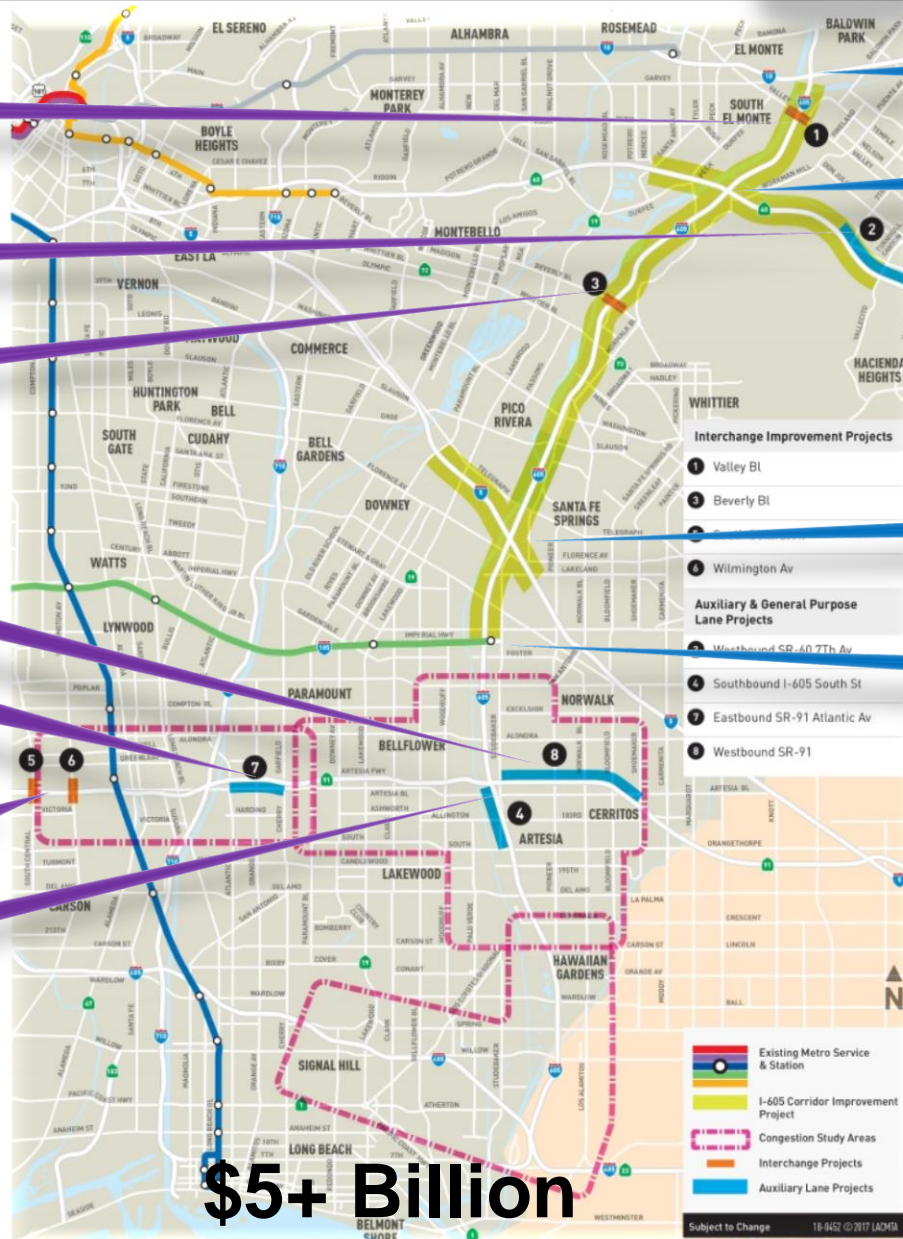
I-605/South St.  
Construction in 2020

I-605/I-10

I-605/SR-60

I-605/I-5

I-605/I-105



+ Over 30 Arterial  
Intersection  
Improvements



**\$5+ Billion**

Subject to Change 18-0452 © 2017 LACMA

# I-405 South Bay

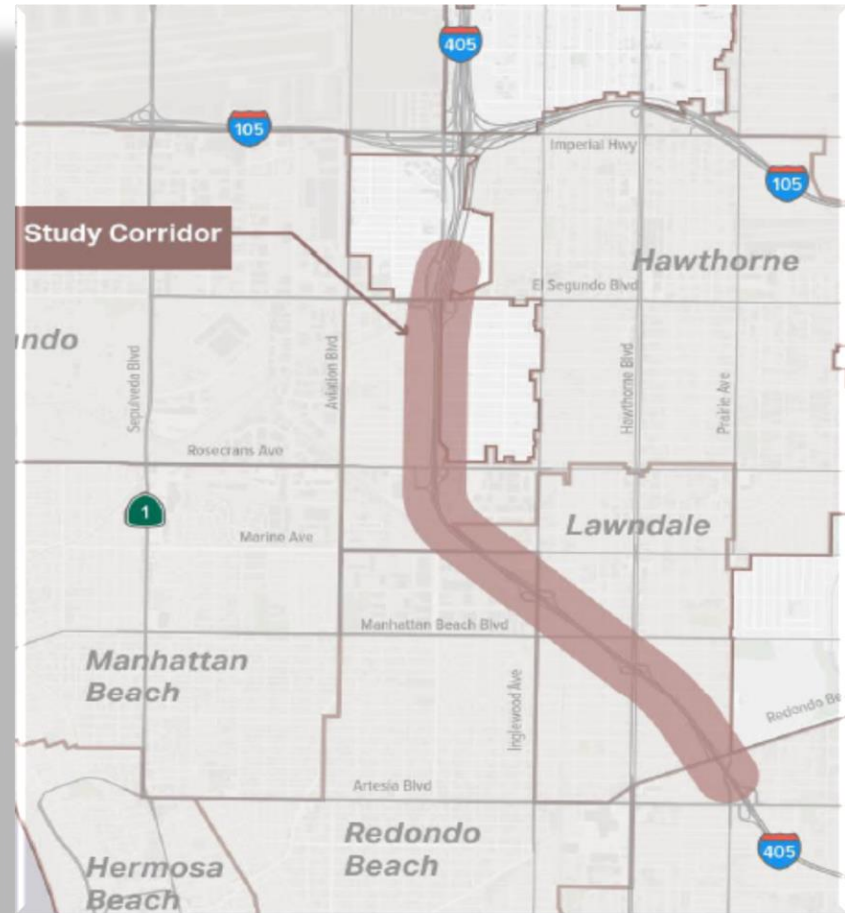


## Project Summary

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

## Status Update

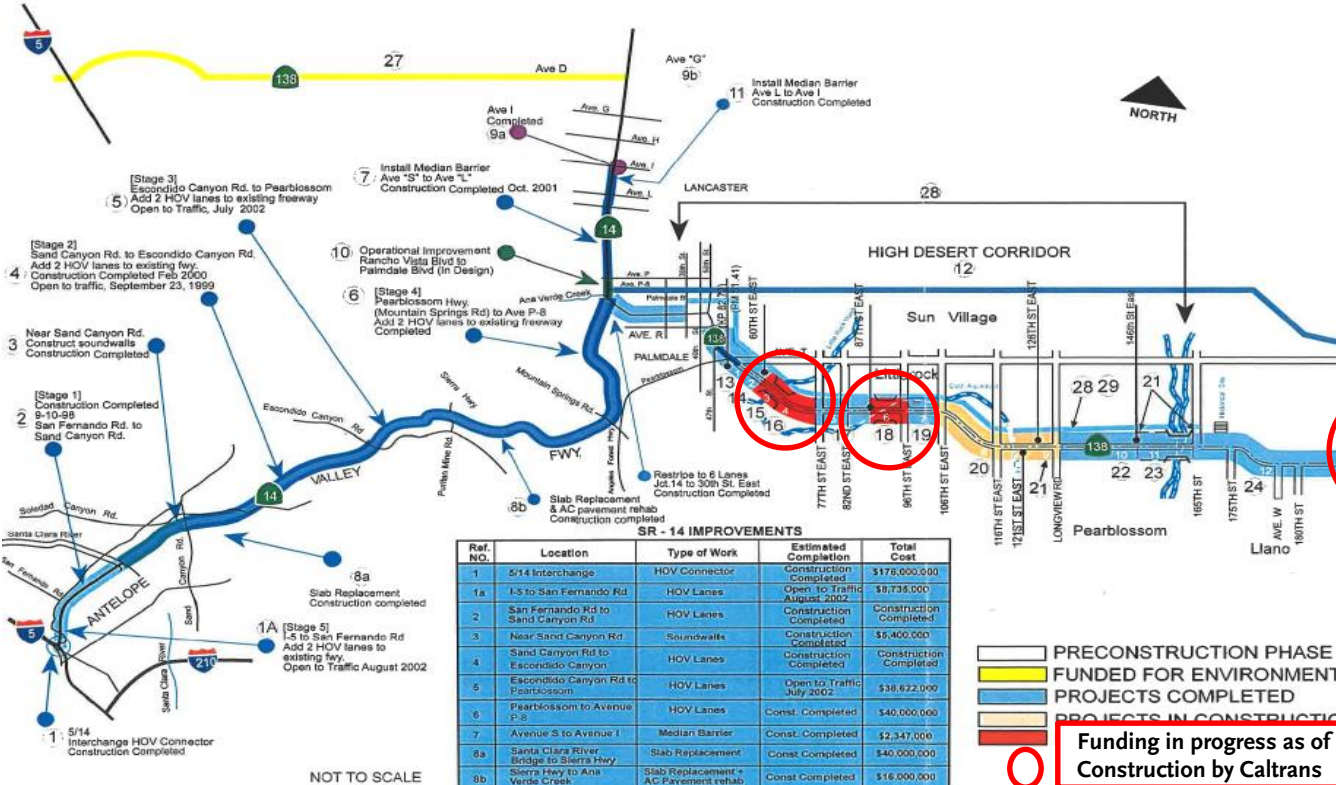
- PSR completed Nov. 2018
- PAED commenced in March 2019
- Construction in 2023



# 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	Estimated Cost
12	LA-14 to SB-18 High Desert Corridor	Multi-phase	Completed	\$1,000,000,000
13	From Ave R to 60th St (Extended Seg. 1)	Pavement Rehabilitation	Completed	\$10,000,000
14	From 60th St. to E of Ave T (Seg. 2)	Widen to 4 lanes	Completed	\$10,000,000
15	From 0.3 mile West of Little Rock Wash to 77th St.	Widen to 4 lanes	Not funded	\$24,500,000
16	Combine Seg. 3 & 4	Widen to 4 lanes	Not funded	\$24,500,000
17	From 77th St to 87th St (Seg. 5)	Widen to 3 lanes	Completed	\$11,500,000
18	87th St. to 96th St (Seg. 6)	Widen to 4 lanes	Not funded	\$32,000,000
19	From 96th St to 106th St (Seg. 7)	Widen to 4 lanes	Summer 2009	\$10,000,000
20	from 0.7 mile West of 121st St. to Longview Rd	Widen to 4 lanes	Fall 2018	\$20,200,000
21	Combine Segs 8&9	Widen to 4 lanes	Fall 2018	\$20,200,000
22	From Longview Rd to 145th St (Seg. 10)	Replace Bridge and Widen Highway to 4 lanes	Completed	\$9,000,000
23	Twin Bridge (Seg. 11)	Widen to 4 lanes	Completed	\$24,000,000
24	From 165th to 190th St. (Seg. 12)	Widen to 4 lanes	Completed	\$39,811,000
25	From 185th St. to SR-18 Junction (Seg. 13)	Widen to 4 lanes	Not funded	\$62,000,000
26	Jet 18 to SB County Line	Widen roadway and Pave Boulder	Summer 2017	\$30,300,000
27	I-5 to LA 14	Widen to 6 lanes	PAID Summer 2017	\$1,100,000,000
28	LA-138 from 30th St E to 185th St E	Cold plane and overlay	Completed	\$19,200,000
29	LA-138 from 30th St E to 155th St E	ADA compliance	Winter 2019	\$12,000,000

- PRECONSTRUCTION PHASE
- FUNDED FOR ENVIRONMENTAL STUDIES
- PROJECTS COMPLETED
- PROJECTS IN CONSTRUCTION

Funding in progress as of March 2018. Construction by Caltrans





# High Desert Corridor

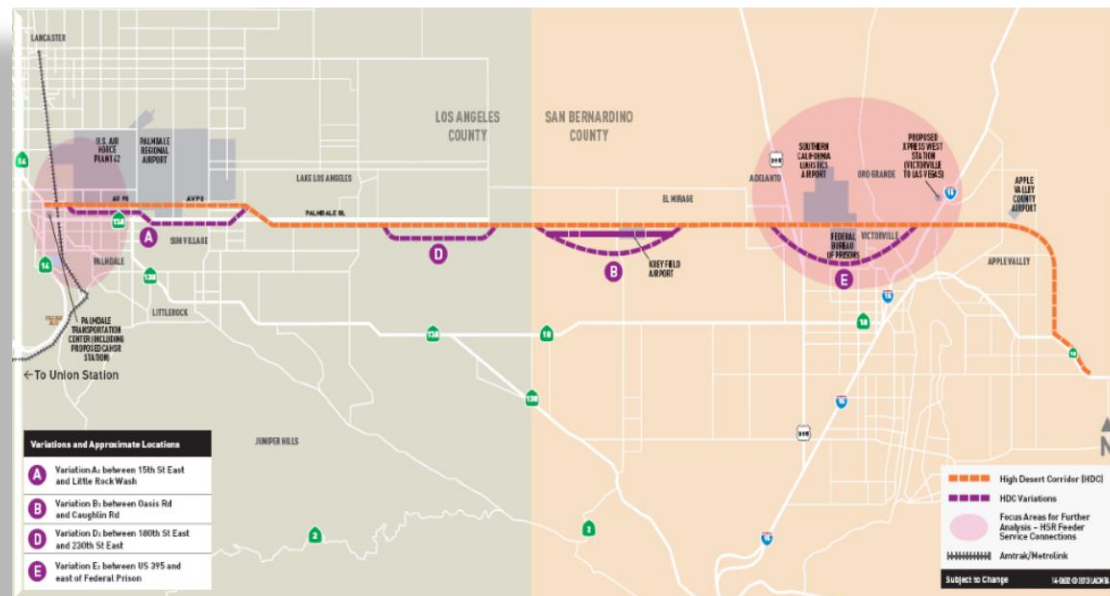


## Project Summary

- 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

- Multi-agency efforts in assessing other feasible alternatives



# Measure M - 1<sup>st</sup> Five Years Subregional Projects

## South Bay Subregion

### Measure M Multi-Year Subregional Plan - Transportation System & Mobility Improvements Program (Expenditure Line 50)

	Agency	Project ID No.	Project/Location	Funding Phases	FY2019-20	FY2020-21	FY 2021-22	FY 2022-23	Total Program
1	INGLEWOOD	MM5502.02	ITS (GAP) CLOSURE IMPROVEMENTS	CONSTRUCTION	\$6,000,000	\$7,500,000			\$ 13,500,000
2	INGLEWOOD	MM5502.03	INGLEWOOD INTERMODAL TRANSIT/PARK AND RIDE FACILITY **	PAED, PS&E, CONSTRUCTION	\$4,596,541	\$4,596,541			\$9,193,082
3	LA COUNTY	MM5502.04	182ND ST/ ALBERTONI ST. TRAFFIC SIGNAL SYNCH PROGRAM *	PAED, PS&E, CONSTRUCTION				\$ 4,228,500	\$ 4,228,500
4	LA COUNTY	MM5502.07	DEL AMO BLVD (EAST) TRAFFIC SIGNAL SYCH PROGRAM *	PAED, PS&E, CONSTRUCTION				\$ 1,324,500	\$ 1,324,500
5	LA COUNTY	MM5502.06	VAN NESS TRAFFIC SIGNAL SYCH PROGRAM *	PAED, PS&E, CONSTRUCTION				\$ 1,702,000	\$ 1,702,000
6	SBCCOG	MM5502.05	SOUTH BAY FIBER NETWORK	CONSTRUCTION	\$ 4,165,114	\$ 224,251			\$ 4,389,365
7	ROLLING HILLS ESTATES	MM5502.08	PALOS VERDES DRIVE NORTH AT DAPPLEYGRAY SCHOOL	PAED, PS&E, ROW, CONSTRUCTION	\$ 51,300	\$ 63,000	\$ 1,440,000		\$ 1,554,300
8	INGLEWOOD	MM5502.09	PRAIRIE AVE DYNAMIC LANE CONTROL SYSTEM **	PS&E, CONSTRUCTION	\$ 6,560,000	\$ 6,560,000			\$ 13,120,000
<b>TOTAL PROGRAMMING AMOUNT</b>					<b>\$21,372,955</b>	<b>\$18,943,792</b>	<b>\$1,440,000</b>	<b>\$7,255,000</b>	<b>\$49,011,747</b>

\* Conditional programming approval as only high level scope of work was developed and reviewed. Future annual update process will reconfirm the programming.

\*\* Final itemized project cost estimate shall be prepared by the City and submitted to Metro for review and approval prior to issuance of a Funding Agreement.

Only those costs deemed eligible by Metro will be reimbursed.



# Measure M - 1<sup>st</sup> Five Years Subregional Projects

## South Bay Subregion

### Measure M Multi-Year Subregional Plan - Transportation System & Mobility Improvements Program (Expenditure Line 66)

	Agency	Project ID No.	Project/Location	Funding Phases	FY2019-20	FY2020-21	FY 2021-22	FY 2022-23	Total Program
1	LA CITY	MM5508.01	FIVE SIGNAL MODIFICATION AND OPERATIONAL	PAED, PSE, CONSTRUCTION	230,000	240,000	90,000	2,240,000	2,800,000
2	LA CITY	MM5508.02	ATSAC COMMUNICATION SYSTEM IMPROVEMENT IN SAN PEDRO	PSE, CONSTRUCTION	250,000	750,000	1,500,000		2,500,000
3	LA CITY	MM5508.03	ASTAC COMMUNICATIONS NETWORK INTEGRATION WITH LA COUNTY	PAED, PSE, CONSTRUCTION	40,000	160,000	400,000	1,400,000	2,000,000
4	MANHATTAN BEACH	MM5508.04	ADVANCED TRAFFIC SIGNAL SYSTEM	PSE, CONSTRUCTION	1,100,000	2,540,000	1,800,000		5,440,000
5	REDONDO BEACH	MM5508.05	REDONDO BEACH TRANSITY CENTER AND PARK AND RIDE	CONSTRUCTION	4,000,000	500,000			4,500,000
6	TORRANCE	MM5508.06	TRANSPORTATION MANAGEMENT SYSTEM IMPROVEMENTS	PSE, CONSTRUCTION	30,000	360,000			390,000
<b>TOTAL PROGRAMMING AMOUNT</b>					<b>\$5,650,000</b>	<b>\$4,550,000</b>	<b>\$3,790,000</b>	<b>\$3,640,000</b>	<b>\$17,630,000</b>

# Measure M - 1<sup>st</sup> Five Years Subregional Projects

## South Bay Subregion

### Measure M Multi-Year Subregional Plan - South Bay Highway Operational Improvements (Expenditure Line 63)

	Agency	Project ID No.	Project/Location	Funding Phases	FY2019-20	FY2020-21	FY 2021-22	FY 2022-23	Total Program
1	HAWTHORNE	MM5507.01	NORTH EAST HAWTHORNE MOBILITY IMPROVEMENT PROJECT	PSE, ROW, CONSTRUCTION	400,000	800,000	950,000	800,000	2,950,000
<b>TOTAL PROGRAMMING AMOUNT</b>					<b>\$ 400,000</b>	<b>\$ 800,000</b>	<b>\$ 950,000</b>	<b>\$ 800,000</b>	<b>\$ 2,950,000</b>

# Measure M - 1<sup>st</sup> Five Years Subregional Projects

## Las Virgenes/Malibu Subregion

### Measure M Multi-Year Subregional Plan - Highway Efficiency Program

	Agency	Project ID No.	Project/Location	Funding Phases	FY 2018-19	FY2019-20	FY2020-21	FY 2021-22	Total Program
1	Agoura Hills	MM5503.01	U.S 101/Palo Comado Interchange - Chesebro Rd S to Driver Ave. & Chesebro Rd to N of interchange	PS&E Construction	\$ 5,393,212	\$ 2,802,224			\$ 8,195,436
2	Agoura Hills	MM5503.02	Kanan Road Corridor from Thousand Oaks Blvd to Cornell Road *	Env PS&E			1,051,879	1,761,614	2,813,493
3	Hidden Hills	MM5503.03	Long Valley Road/Valley Circle/US-101 On-Ramp Improvements	PS&E, ROW Construction	468,006	243,169	249,247	255,230	1,215,652
4	Malibu	MM5503.04	Malibu Park and Ride Lots	ROW	3,100,000				3,100,000
5	Malibu	MM5503.05	Median Improvements PCH	PS&E Construction	150,000	150,000	1,000,000	700,000	2,000,000
6	LA County	MM5503.06	Malibu Canyon Road Improvements - Malibu Canyon Rd @ Piuma Rd. & Las Virgenes Rd @ Las Virgenes Canyon Rd	PS&E ROW Construction	200,000	125,000	700,000	475,000	1,500,000
<b>Total Programming Amount</b>					<b>\$ 9,311,218</b>	<b>\$ 3,320,393</b>	<b>\$ 3,001,126</b>	<b>\$ 3,191,844</b>	<b>\$ 18,824,581</b>

\* Conditional programming approval as only high level scope of work was developed and reviewed. Future annual update process will reconfirm the programming.

# Measure M - 1<sup>st</sup> Five Years Subregional Projects

## Arroyo Verdugo Subregion

### Measure M Multi-Year Subregional Plan - Highway Efficiency, Noise Mitigation and Arterial Program

	Agency	Project ID No.	Project/Location	Funding Phases	FY 2018-19	FY2019-20	FY2020-21	FY 2021-22	Total Program
1	South Pasadena	MM5506.01	Columbia St. and Pasadena Ave Turn Lanes, Columbia St. and Orange Grove Ave. Striping	PS&E Construction		\$ 150,000			\$ 150,000
2	South Pasadena	MM5506.02	Garfield Ave. and Monterey Road Signal	PS&E Construction		400,000			400,000
3	South Pasadena	MM5506.03	Garfield Ave. and Oak St. Signal	PS&E Construction		400,000			400,000
4	South Pasadena	MM5506.04	Fremont Ave. and Huntington Dr. Signage *	PS&E Construction				140,000	140,000
5	South Pasadena	MM5506.05	Grevelia St and Fair Oaks Ave. Striping and Signal Timing *	PS&E Construction				50,000	50,000
<b>Total Programming Amount</b>					<b>\$ -</b>	<b>\$ 950,000</b>	<b>\$ -</b>	<b>\$ 190,000</b>	<b>\$ 1,140,000</b>

\* Conditional programming approval as only high level scope of work was developed and reviewed. Future annual update process will reconfirm the programming.

# Measure M - 1<sup>st</sup> Five Years Subregional Projects

## North County Subregion

### Measure M Multi-Year Subregional Plan - Highway Efficiency Program

	Agency	Project ID No.	Project/Location	Funding Phases	FY 2018-19	FY2019-20	FY2020-21	FY 2021-22	Total Program
1	Palmdale	MM5504.01	SR-138 Palmdale Blvd. SR-14 Ramps	Construction		1,117,074	1,117,073	1,117,073	\$ 3,351,220
2	North County Transportation Coalition	MM5504.02	SR-14 Capacity Enhancement/Operational Improvement **	TBD	500,000	1,500,000	1,350,000	1,350,000	4,700,000
<b>Total Programming Amount</b>					<b>\$ 500,000</b>	<b>\$ 2,617,074</b>	<b>\$ 2,467,073</b>	<b>\$ 2,467,073</b>	<b>\$ 8,051,220</b>

\*\* Pending identification of a specific project after initial investigations and consultation with Caltrans and Metro.

## San Gabriel Subregion

### Measure M Multi-Year Subregional Plan - Highway Efficiency Program

	Agency	Project ID No.	Project/Location	Funding Phases	FY 2018-19	FY2019-20	FY2020-21	FY 2021-22	Total Program
1	SGVCOG (ACE)	MM5505.01	State Route 60 and Lemon Avenue	Construction	\$ 5,273,500				\$ 5,273,500
<b>Total Programming Amount</b>					<b>\$ 5,273,500</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,273,500</b>



Metro

Los Angeles County  
Metropolitan Transportation  
Authority  
One Gateway Plaza  
3rd Floor Board Room  
Los Angeles, CA

## Board Report

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**File #:** 2019-0835, **File Type:** Formula Allocation / Local Return

**Agenda Number:** 4.

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**MEASURE M INDEPENDENT TAXPAYER OVERSIGHT COMMITTEE  
DECEMBER 4, 2019**

**SUBJECT: ORAL REPORT ON MEASURE M LOCAL RETURN (SUSAN RICHAN)**

**RECOMMENDATION**

RECEIVE Oral Report on Measure M Local Return.

**ATTACHMENTS**

Attachment A - Measure M Local Return Status Report



# Measure M Local Return

December 2019 update



Susan Richan, Metro Senior Manager,  
Local Programming

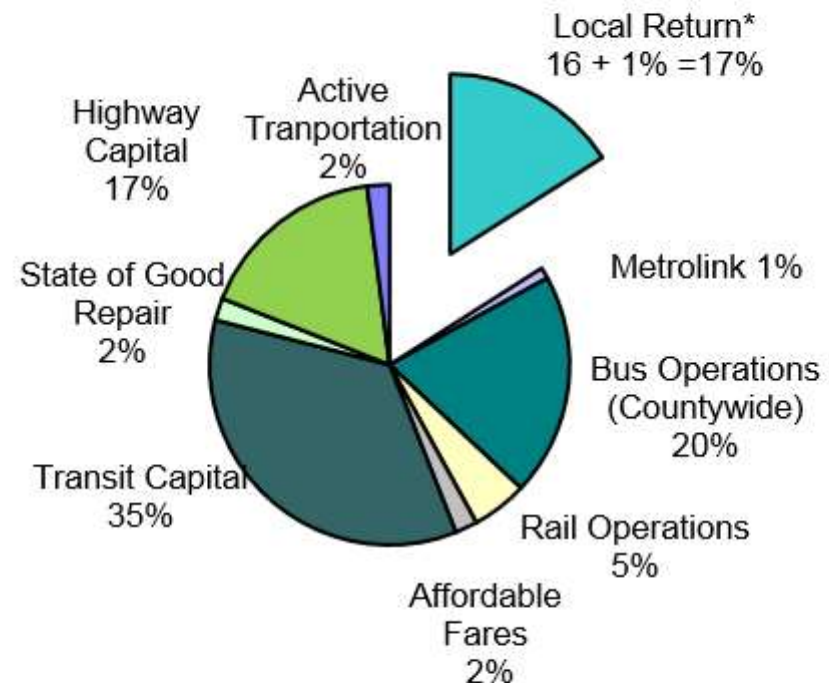


# Local Return (LR) – Measure M

- Measure M (approved in 2016 – funding started FY18)
  - 17% LR share (16% share plus 1% of the 1.5% off the top)
- Requires Assurances and Understanding agreement
- Jurisdictions are audited annually for compliance to **Measure M** (Form M-One and Form M-Two)

Due dates are the same for all LR:  
August 1 (budget) and  
October 15th (expenditures)

## MEASURE M



\*Local Return receives 1% from the 1.5% of the "off the top" Administration



## Measure M – FY 19 Audit

- The FY19 audits are currently being performed and will be completed by end of December 2019
- Metro will have a summary report on the FY19 audit findings at the next Measure M Oversight Committee meeting

# Measure M First Quarter Payments

- The FY20 First Quarter allocations are less than one-half of a percent (1/2%) lower than the forecast, but the Second quarter has already rebounded and thus far are coming in higher than the forecast.
- The calculation: divide the FY20 forecast by one-quarter (Budgeted Q1 Estimate) and compare to the Total Paid. The Fiscal Year to Date (FYTD) is percentage paid.

TRANSIT OPERATOR	FY20 ALLOCATION FORECAST	JULY	AUG	SEPT	TOTAL PAID	BUDGETED Q1 ESTIMATE	FYTD
AGOURA HILLS	298,018	26,688.92	22,829.88	24,655.05	74,173.85	74,504.50	99.56%
ALHAMBRA	1,234,764	110,578.99	94,590.00	102,152.15	307,321.14	308,691.08	99.56%
ARCADIA	821,643	73,581.99	62,942.52	67,974.56	204,499.07	205,410.66	99.56%

# Measure M First Quarter Disbursement FY20

MEASURE M LOCAL RETURN  
DISBURSEMENT SUMMARY  
FISCAL YEAR 2020

TRANSIT OPERATOR	FY20 ALLOCATION FORECAST	JULY	AUG	SEPT	TOTAL PAID	UNPAID FORECAST AMOUNT
AGOURA HILLS	298,018	26,688.92	22,829.88	24,655.05	74,173.85	223,844.13
ALHAMBRA	1,234,764	110,578.99	94,590.00	102,152.15	307,321.14	927,443.17
ARCADIA	821,843	73,581.99	62,942.52	67,974.56	204,499.07	617,143.57
ARTESIA	239,766	21,472.18	18,367.45	19,835.86	59,675.49	180,090.54
AVALON	55,151	4,939.08	4,224.92	4,562.69	13,726.69	41,424.78
AZUSA	708,768	63,473.52	54,295.67	58,636.42	176,405.61	532,362.25
BALDWIN PARK	1,092,499	97,838.48	83,691.68	90,382.54	271,912.70	820,586.53
BELL	518,610	46,443.94	39,728.46	42,904.61	129,077.01	389,532.57
BELLFLOWER	1,106,830	99,121.87	84,789.50	91,568.13	275,479.50	831,350.54
BELL GARDENS	613,967	54,983.68	47,033.40	50,793.56	152,810.64	461,156.70
BEVERLY HILLS	492,120	44,071.65	37,699.18	40,713.10	122,483.93	369,635.80
BRADBURY	15,260	1,366.56	1,168.97	1,262.42	3,797.95	11,461.58
BURBANK	1,529,225	136,949.30	117,147.34	126,512.87	380,609.51	1,148,615.09
CALABASAS	345,525	30,943.44	26,469.22	28,585.34	85,998.00	259,527.40
CARSON	1,335,251	119,578.09	102,287.89	110,465.45	332,331.43	1,002,920.01
CERRITOS	714,755	64,009.65	54,754.28	59,131.69	177,895.62	536,858.89
CLAREMONT	518,552	46,438.82	39,724.08	42,899.88	129,062.78	389,489.65
COMMERCE	186,615	16,712.24	14,295.76	15,438.66	46,446.66	140,168.21
COMPTON	1,425,237	127,636.71	109,181.29	117,909.96	354,727.96	1,070,508.97
COVINA	698,895	62,571.43	53,524.02	57,803.08	173,898.53	524,996.33
CUDAHY	347,597	31,128.97	26,627.93	28,756.74	86,513.64	261,083.52
CULVER CITY	599,332	50,986.36	43,614.07	47,100.86	141,701.29	427,630.50
DIAMOND BAR	817,913	73,248.02	62,656.84	67,666.04	203,570.90	614,342.58
DOWNEY	1,624,111	145,446.81	124,416.17	134,362.81	404,225.79	1,219,885.06
DUARTE	314,321	28,148.89	24,078.75	26,003.76	78,231.40	236,089.13
EL MONTE	1,670,881	149,633.51	127,997.50	138,230.46	415,861.47	1,254,999.54
EL SEGUNDO	239,709	21,467.06	18,363.07	19,831.13	59,661.26	180,047.61
GARDENA	871,379	78,036.11	66,752.61	72,089.25	216,877.97	654,501.01
GLENDALE	2,881,950	258,092.28	220,773.85	238,423.96	717,290.09	2,164,660.11
GLENDORA	749,431	67,115.13	57,410.72	62,000.51	186,526.36	562,905.00
HAWAIIAN GARDENS	208,961	18,713.47	16,007.62	17,287.38	52,008.47	156,952.74
HAWTHORNE	1,267,427	113,504.05	97,092.11	104,854.30	315,450.46	951,976.10
HERMOSA BEACH	281,244	25,186.73	21,544.89	23,267.33	69,998.95	211,244.98
HIDDEN HILLS	27,147	2,431.15	2,079.62	2,245.88	6,756.65	20,390.45
HUNTINGTON PARK	849,061	76,037.45	65,042.94	70,242.90	211,323.29	637,737.92
INDUSTRY	6,244	559.17	478.31	516.55	1,554.03	4,689.80
INGLEWOOD	1,621,339	145,198.58	124,203.83	134,133.50	403,535.91	1,217,803.08
IRVINDALE	20,203	1,809.29	1,547.68	1,671.41	5,028.38	15,174.78
LA CANADA FLINTRIDGE	294,875	26,407.42	22,589.08	24,395.00	73,391.50	221,483.13
LA HABRA HEIGHTS	77,912	6,977.40	5,968.52	6,445.68	19,391.60	58,520.57
LAKEWOOD	1,159,124	103,805.03	88,795.51	95,894.41	288,494.95	870,628.98
LA MIRADA	708,082	63,412.10	54,243.13	58,579.68	176,234.91	531,847.13
LANCASTER	2,302,474	206,197.44	176,382.66	190,483.84	573,063.94	1,729,410.02
LA PUENTE	580,662	52,001.04	44,482.04	48,038.22	144,521.30	436,140.84
LA VERNE	473,917	42,441.50	36,304.74	39,207.18	117,953.42	355,963.47
LAWNDALE	479,789	42,967.40	36,754.59	39,693.00	119,414.99	360,374.24
LOMITA	295,175	26,434.29	22,612.07	24,419.82	73,466.18	221,708.50
LONG BEACH	6,824,323	611,150.44	522,782.14	564,576.77	1,698,509.35	5,125,813.84
LOS ANGELES CITY	57,458,804	5,145,707.89	4,401,672.62	4,753,571.22	14,300,951.73	43,157,852.61



# Measure M First Quarter Disbursement FY20

MEASURE M LOCAL RETURN  
DISBURSEMENT SUMMARY  
FISCAL YEAR 2020

	FY20					UNPAID
TRANSIT OPERATOR	ALLOCATION	JULY	AUG	SEPT	TOTAL	FORCAST
LYNWOOD	1,027,232	91,993.48	78,691.83	84,982.97	255,668.28	771,563.61
MALIBU	184,872	16,556.14	14,162.23	15,294.45	46,012.82	138,858.92
MANHATTAN BEACH	513,809	46,014.01	39,360.69	42,507.44	127,882.14	385,926.69
MAYWOOD	400,363	35,854.36	30,670.06	33,122.02	99,646.44	300,716.10
MONROVIA	553,444	49,563.49	42,396.94	45,786.43	137,746.86	415,696.74
MONTEBELLO	916,457	82,073.10	70,205.67	75,818.59	228,097.56	688,359.89
MONTEREY PARK	888,053	79,529.35	68,029.93	73,468.69	221,027.97	667,025.04
NORWALK	1,532,397	137,233.36	117,390.33	126,775.28	381,398.97	1,150,997.55
PALMDALE	2,266,897	203,011.35	173,657.26	187,540.56	564,209.17	1,702,687.80
PALOS VERDES ESTATES	193,002	17,284.21	14,785.02	15,967.04	48,036.27	144,965.31
PARAMOUNT	798,825	71,538.54	61,194.54	66,086.84	198,819.92	600,004.87
PASADENA	2,048,591	183,461.06	156,933.81	169,480.12	509,874.99	1,538,716.45
PICO RIVERA	916,858	82,108.93	70,236.52	75,851.69	228,197.14	688,660.37
POMONA	2,210,802	197,969.91	169,344.77	182,883.31	550,197.99	1,660,404.48
RANCHO PALOS VERDES	609,067	54,544.79	46,657.98	50,388.12	151,590.89	457,475.68
REDONDO BEACH	980,182	87,779.91	75,087.51	81,090.51	243,957.93	736,223.76
ROLLING HILLS	27,090	2,479.77	2,121.21	2,290.80	6,891.78	20,798.26
ROLLING HILLS ESTATES	115,818	10,372.06	8,872.33	9,581.64	28,826.03	86,992.06
ROSEMEAD	784,980	70,298.65	60,133.93	64,941.44	195,374.02	589,605.75
SAN DIMAS	492,520	44,107.48	37,729.83	40,746.20	122,583.51	369,936.28
SAN FERNANDO	350,912	31,425.83	26,881.86	29,030.97	87,338.66	263,573.30
SAN GABRIEL	582,877	52,181.46	44,636.37	48,204.89	145,022.72	437,654.02
SAN MARINO	189,387	16,960.48	14,508.10	15,667.98	47,136.56	142,250.17
SANTA CLARITA	3,076,881	275,549.23	235,706.63	254,550.57	765,806.43	2,311,074.22
SANTA FE SPRINGS	290,284	23,309.62	19,939.20	21,533.28	64,782.10	195,501.42
SANTA MONICA	1,318,849	118,109.16	101,031.36	109,108.47	328,248.99	990,599.89
SIERRA MADRE	156,782	14,040.54	12,010.37	12,970.56	39,021.47	117,760.16
SIGNAL HILL	165,097	14,785.24	12,647.39	13,658.51	41,091.14	124,006.08
SOUTH EL MONTE	298,104	26,696.60	22,836.45	24,662.14	74,195.19	223,908.52
SOUTH GATE	1,400,890	125,456.35	107,316.20	115,895.76	348,668.31	1,052,221.95
SOUTH PASADENA	371,858	33,301.65	28,486.45	30,763.85	92,551.95	279,306.14
TEMPLE CITY	517,738	46,365.89	39,661.69	42,832.51	128,860.09	388,877.93
TORRANCE	2,131,147	190,854.32	163,258.05	176,309.97	530,422.34	1,600,724.86
VERNON	2,986	267.43	228.76	247.05	743.24	2,242.94
WALNUT	430,796	38,579.81	33,001.42	35,639.77	107,221.00	323,574.87
WEST COVINA	1,547,227	138,561.54	118,526.46	128,002.24	385,090.24	1,162,137.17
WEST HOLLYWOOD	511,766	45,831.04	39,204.17	42,338.41	127,373.62	384,392.04
WESTLAKE VILLAGE	119,347	10,688.11	9,142.68	9,873.60	29,704.39	89,642.82
WHITTIER	1,244,723	111,470.84	95,352.89	102,976.03	309,799.76	934,923.25
LOS ANGELES CNTY	15,070,126	1,349,601.07	1,154,457.70	1,246,752.62	3,750,811.39	11,319,314.18
<b>SUBTOTAL:</b>	<b>146,183,850</b>	<b>13,091,455.68</b>	<b>11,198,517.91</b>	<b>12,093,800.93</b>	<b>36,383,774.52</b>	<b>109,800,075.48</b>
					0.00	
<b>TOTAL:</b>		<b>13,091,455.68</b>	<b>11,198,517.91</b>	<b>12,093,800.93</b>	<b>36,383,774.52</b>	



THANK YOU!

## Questions?

Susan Richan

[richans@metro.net](mailto:richans@metro.net)

(213) 922-3017





**Board Report**

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**File #:** 2019-0846, **File Type:** Oral Report / Presentation

**Agenda Number:** 5.

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**MEASURE M INDEPENDENT TAXPAYER OVERSIGHT COMMITTEE  
DECEMBER 4, 2019**

**SUBJECT: ORAL REPORT ON TRANSIT OPERATIONS AND MAINTENANCE (CONAN  
CHEUNG)**

**ACTION: ORAL REPORT**

**RECOMMENDATION**

RECEIVE Oral Report on Transit Operations and Maintenance - FY20 Q1.

**ATTACHMENTS**

Attachment A - Measure M Reporting: FY20 Q1 Metro Bus, Rail & State of Good Repair



# Measure M (20%) - Transit Operations

*Transit Operations "means countywide transit service operated by Metro and the Included and Eligible Municipal Operators receiving funds allocated through a Board-adopted Formula Allocation Procedure (FAP)."*

Program Objectives	FY19 Y/E	FY20 Q1 <sup>1</sup>	FY20 Q2 <sup>1</sup>	FY20 Q3 <sup>1</sup>	FY20 Q4 <sup>1</sup>	FY20 YTD	FY20 Target
<b>Bus Systemwide</b>							
% of On-Time Pullouts	95.89%	96.20%				96.20%	97.11%
Mean Miles Between Chargeable Mechanical Failures Requiring Bus Exchange (MMBMF)	4,555	4,094				4,094	5,183
In-Service On-time Performance	72.83%	72.80%				72.80%	78.20%
Bus Accidents Per 100,000 Train Miles	4.26	4.47				4.47	3.94
Complaints per 100,000 Boardings	5.34	5.80				5.80	4.24

	FY20 Annual Budget	Q1	Q2	Q3	Q4
<b>Measure M 20% Fund Allocation<sup>2</sup></b>	<b>\$126,904,826</b>	<b>\$31,726,207</b>			
Total Miles of Service Delivered with Measure M	7,463,387	1,825,439			
Total Hours of Service Delivered with Measure M	709,702	176,131			
Total Passengers Served with Measure M	27,352,904	7,251,485			

**Notes**

<sup>1</sup>Reported by Metro Transit Bus Operations only

<sup>2</sup> Only reflects Measure M percentage share for Metro Bus Operations which is 68.6916%.

Quarterly reports are due to Metro's Local Programming no later than 45 days after the end of each quarter (1st Qtr - November 15, 2 Qtr - February 15, 3rd Qtr - May 15 & 4th Qtr - August 15).

## Measure M (5%) - Metro Rail

*Metro Rail Operations "means service delivery for operating and regular and preventative maintenance for Metro Rail Lines as defined in adopted by the Metro Board of Directors, as well as Metro State of Good Repair."*

Program Objectives	FY19 Y/E	FY20 Q1 <sup>1</sup>	FY20 Q2 <sup>1</sup>	FY20 Q3 <sup>1</sup>	FY20 Q4 <sup>1</sup>	FY20 YTD	FY20 Target
On-Time Pullouts	99.72%	99.69%				99.69%	99.80%
Mean Miles Between Chargeable Mechanical Failures	39,034	39,859				39,859	44,540
In-Service On-time Performance	98.81%	98.90%				98.90%	99.10%
Traffic Accidents Per 100,000 Train Miles	0.68	0.64				0.64	0.85
Complaints per 100,000 Boardings	1.83	1.60				1.60	1.10

	FY20 Annual Budget	Q1	Q2	Q3	Q4
<b>Measure M 5% Fund Allocation</b>	<b>\$42,995,000</b>	<b>\$10,748,750.00</b>			
Total Miles of Service Delivered with Measure M	1,990,185	438,833			
Total Hours of Service Delivered with Measure M	89,895	21,306			
Total Passengers Served with Measure M	8,503,369	1,706,708			

**Notes**

<sup>1</sup>Reported by Metro Transit Operations.

*This pot is eligible for SGR, if any funds are used for SGR, this should be detailed here and listed.*

## Measure M (2%) - State of Good Repair

*Metro State of Good Repair "means the repair, rehabilitation, and replacement required to maintain reliable, safe, effective, and efficient rail transit services." <sup>1</sup>*

Project #	Project Name	Q1	Q2	Q3	Q4	FY20 YTD
204083	SOUND ENCLOSURE FOR LRT FREEWAY STATIONS	\$ 80,446				\$ 80,446
204117	VERT SYSTEM MODERNIZATION: ELEVATORS	\$ 6,458				\$ 6,458
204128	FIRE CONTROL PANEL UPGRADE	\$ 51,414				\$ 51,414
205038	REPLACE THE AGING SUPERVISORY CONTROL AN	\$ -				\$ -
205055	MGL EMERGENCY TRIP SYSTEM	\$ 288,866				\$ 288,866
206041	DIV 20 WHEEL PRESS MACHINE	\$ -				\$ -
<b>Total</b>						<b>\$ 427,184</b>



# Operations Key Performance Indicator Overview – FY20 Q1

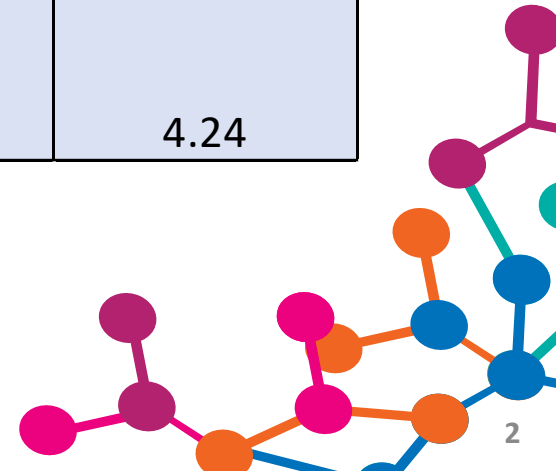
December 2019



*Metro Provides Excellence in Service and Support.*

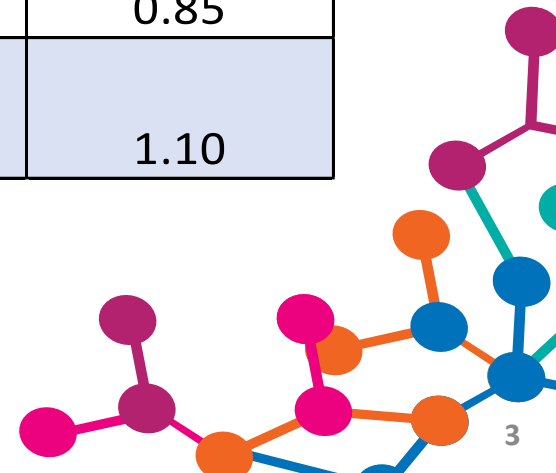
# FY20 Q1 KPI Actuals – Bus

Metro Bus Program	FY19 Y/E	FY20 Q1	FY20 Target
On-Time Pullouts	95.89%	96.20%	97.11%
Mean Miles Between Chargeable Mechanical Failures Requiring Bus Exchange	4,555	4,094	5,183
In-Service On-time Performance	72.83%	72.80%	78.20%
Bus Accidents Per 100,000 Bus Miles	4.26	4.47	3.94
Complaints per 100,000 Boardings	5.34	5.80	4.24



# FY20 Q1 KPI Actuals – Rail

Metro Rail Program	FY19 Y/E	FY20 Q1	FY20 Target
On-Time Pullouts	99.72%	99.69%	99.80%
Mean Miles Between Chargeable Mechanical Failures	39,034	39,859	44,540
In-Service On-time Performance	98.81%	98.90%	99.10%
Traffic Accidents Per 100,000 Train Miles	0.68	0.64	0.85
Complaints per 100,000 Boardings	1.83	1.60	1.10





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Los Angeles County  
Metropolitan Transportation  
Authority  
One Gateway Plaza  
3rd Floor Board Room  
Los Angeles, CA

## Board Report

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**File #:** 2019-0837, **File Type:** Oral Report / Presentation

**Agenda Number:** 6.

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**MEASURE M INDEPENDENT TAXPAYER OVERSIGHT COMMITTEE  
DECEMBER 4, 2019**

**SUBJECT: ORAL REPORT ON STATE OF GOOD REPAIR (DENISE LONGLEY)**

**RECOMMENDATION**

RECEIVE Oral Report on State of Good Repair

**ATTACHMENTS**

Attachment A - State of Good Repair Report



# Measure M Independent Taxpayer Oversight Committee

Enterprise Transit Asset Management  
*State of Good Repair*



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# Transit Asset Management (TAM)

*“TAM is a business model that uses condition of assets to guide optimal prioritization of funding at transit properties in order to keep our transit networks in a State of Good Repair” --- FTA*

## **Per FTA’s TAM Rulemaking – A Capital Asset is in a State Of Good Repair if it Meets The Following Objective Standards:**

- The capital asset is able to perform its designed function;
- The use of the asset in its current condition does not pose an identified unacceptable safety risk; and
- The life-cycle investment needs of the asset have been met or recovered, including all scheduled maintenance, rehabilitation, and replacements.

## **Metro’s TAM Policy Defines**

**An SGR asset as** one that is currently in use in operation and its rehabilitation or replacement needs shall be included in the asset inventory.

**An SGR capital project involves** rehabilitating or replacing an existing asset. *Excluded from this definition are capital projects for capacity enhancements or expansions to existing projects or new services.*



# TAM Inventory Database Overview

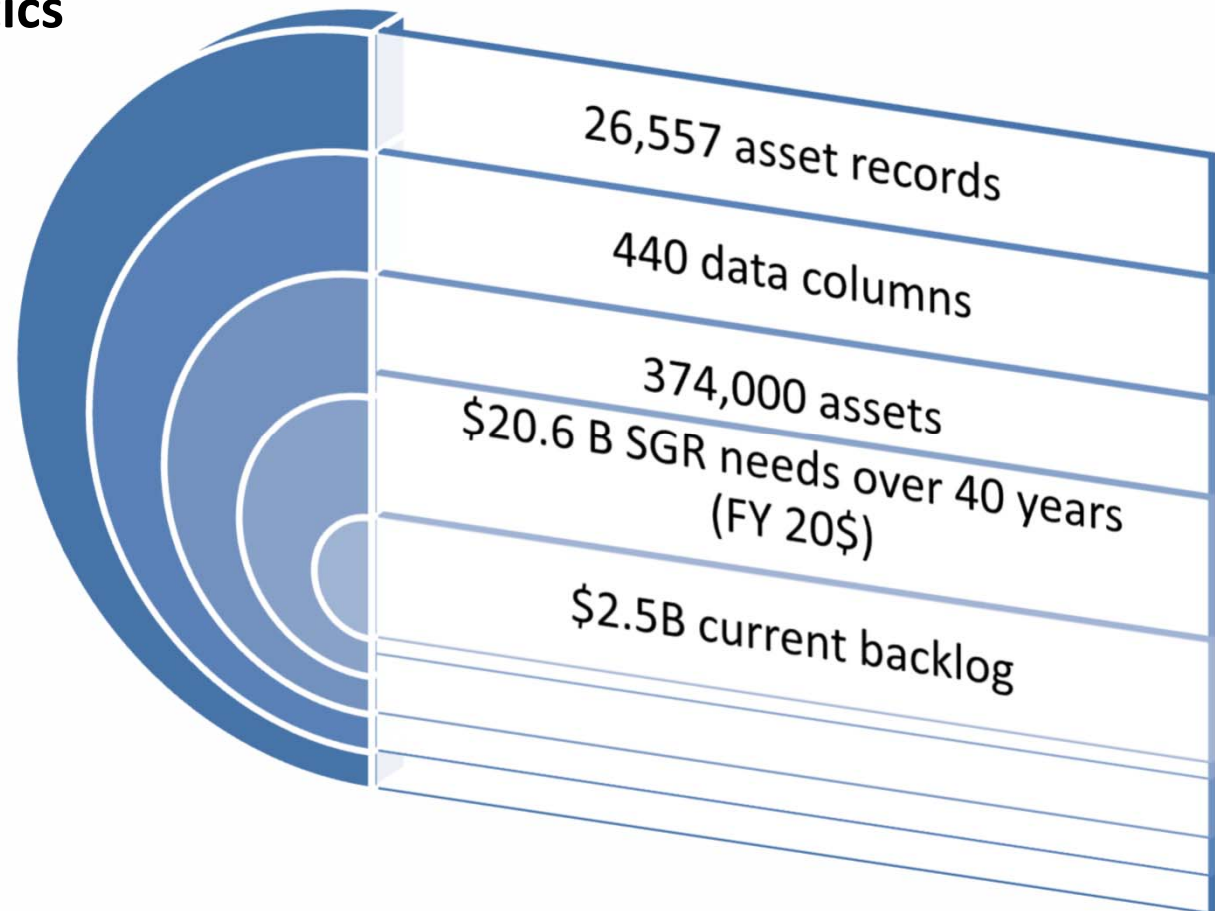
## Current Statistics

As of 6/30/19

Data collection is an ongoing process with Asset Stakeholder Technical Working Groups

Inventory \$18.7B - Continual gathering of information

Backlog: Assets overdue for replacement or rehabilitation



# Federal Transit Administration (FTA) Reporting Requirements

FTA TAM Performance Measures / Targets				Based on FY19 Census Date (6/30/2019)			
Asset Class	On 6/30/2019	Performance Measure based on 49 CFR Part 625	FY20 Target (reported to FTA)	Total Asset Count	Exceeded ULB	Average Age	
<b>Rolling Stock</b>	Motorbus (BU)	22.72%	625.43(b): Rolling stock. The performance measure for rolling stock is the percentage of revenue vehicles within a particular asset class that have either met or exceeded their useful life benchmark.	15.36%	2,152	489	9
	Articulated Bus (AB)	74.81%		75.24%	389	291	14
	Light Rail Vehicles (LR)	0.00%		0.00%	298	0	7
	Heavy Rail Vehicles (HR)	0.00%		0.00%	104	0	23
<b>Equipment</b>	Automobiles	26.00%	625.43(a): Equipment: (non-revenue) service vehicles. The performance measure for non-revenue, support-service and maintenance vehicles equipment is the percentage of those vehicles that have either met or exceeded their useful life benchmark.	26.43%	477	124	6
	Trucks and Other Rubber Tire Vehicles*	28.48%		38.21%	934	266	9
	Steel Wheel Vehicles**	44.44%		25.00%	9	4	12
<b>Facilities</b>	Asset Class	On 6/30/2019	Performance Measure based on 49 CFR Part 625	FY20 Target (reported to FTA)	Total Asset Count	Locations Below TERM Condition 3	
	Passenger Facilities (Stations & Parking)	0.00%	625.43(d): Facilities. The performance measure for facilities is the percentage of facilities within an asset class, rated below condition 3 on the TERM scale.	0.00%	240	0	
	Administration & Maintenance Facilities	0.00%		0.00%	138	0	
<b>Infrastructure</b>	Asset Class	On 6/30/2019	Performance Measure based on 49 CFR Part 625	FY20 Target (reported to FTA)	Total Revenue Track	Average Performance Restriction	
	Heavy Rail (HR)	0.00%	625.43(c): Infrastructure: rail fixed-guideway, track, signals, and systems. The performance measure for rail fixed-guideway, track, signals, and systems is the percentage of track segments with performance restrictions.	0.00%	31.84 miles	0.00 miles	
	Light Rail (LR)	2.80%		2.24%	171.73 miles	4.81 miles	

\* Includes SUVs, heavy construction equipment and other street-legal vehicles, and excludes trailers.  
 \*\* Self-powered vehicles only (excludes trailers).



# FTA TAM Requirements Accomplished

The following has been accomplished by Metro's Enterprise Transit Asset Management (ETAM) staff:

- The 2018 TAM Plan was updated including adding four new FTA required elements and met the October 31, 2019 FTA compliance deadline.
- The Group Plan was completed and the uniform performance targets were reported to the FTA through the National Transit Database (NTD) by October 31, 2019.
- The TAM performance measures for the preceding fiscal year and new targets were reported to the FTA's NTD by October 31, 2019.
- Southern California Association of Governments (SCAG) has been provided Metro's updated TAM Plan and the NTD performance and target data for their regional TAM reporting.

	<b>Current Estimated Replacement Cost</b>	<b>Current Backlog</b>
Facilities	\$ 6,649,077,376	\$ 474,434,681
Equipment	\$ 131,313,648	\$ 49,581,923
Infrastructure	\$ 7,987,665,662	\$ 979,035,826
Rolling Stock	\$ 3,946,289,849	\$ 1,007,244,385
Metro Overall	\$ 18,714,346,536	\$ 2,510,296,815



## State of Good Repair Rail Projects – examples

- A650 Heavy Rail Vehicle Modernization (HRV) and Critical Component Replacement Program (OCCRP) - Midlife Modernization of 74 newest HRVs
- P2000 Light Rail Vehicle Midlife Modernization/ Overhaul Project -P2000 light rail car fleet, 52 vehicles
- P2550 Light Rail Vehicle Mid-Life Modernization -P2550 fleet, consisting of 50 Light Rail Vehicles (LRVs)
- P865/P2020 Railcar Midlife Overhaul
- P2550 Light Rail Vehicle Component Overhaul
- MRL Access Control / Alarm Monitoring System Replacement
- MBL & MGL Emergency Trip System (ETS) Replacement
- MRL 7th/Metro Turnback Upgrade
- Metro Green Line Train Control Track Circuits and TWC
- Blue and Gold Line Train Control Battery Replacement
- Rail Facility Maintenance & Improvements
- Metro Green Line Switch Machine Overhaul
- MRL UPS/Battery Replacement FY17-FY22
- Metro Red Line Tunnel Lighting Rehabilitation
- Green and Gold Line TPSS Battery Replacement
- Elevator Modernization & Escalator Replacement Project
- Fire Alarm Control Panel Replacements/Upgrade
- Metro Green, Red and Blue Line ETEL/PTEL Replacement



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# Transit Asset Management - Next Steps

## **Continue sharing TAM information with SCAG to meet MPO Rulemaking reporting dates**

- Metro and Group TAM Plans;
- TAM Performance and Targets; and
- Asset Inventory

## **Develop SGR Capital Projects with Operations and OMB**

## **ETAM, Operations and OMB to integrate asset inventory into capital project prioritization process**

- Include identification of asset replacements in capital project proposals to OMB
- Update backlog with funded FY21 data

## **Continue Condition Assessments:**

- Facilities
- Structures
- Systems

## **October 31, 2019 FTA compliance deadline: MET!**

- Written narrative for Metro TAM and Group TAM Plans provided
- Data uploaded into National Transit Database (NTD), continue to answer FTA's questions
- Provide clarification as needed by the FTA on Performance measures and targets



**Metro**



Thank you!

Denise Longley  
Enterprise Transit Asset Management  
*State of Good Repair*



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