I-105 ExpressLanes Project









Presentation Agenda



- 1. ExpressLanes Background
- 2. I-105 Project Overview
- 3. Performance Benefits
- 4. Environmental Documents
- 5. Funding Plan
- 6. Public Outreach
- 7. Schedule







LA Metro at a Glance



- LA Metro is Los Angeles County's:
 - > Regional Planner
 - > Regional Funding Partner
 - > Regional Designer & Builder
 - > Regional Operator





ExpressLanes Background



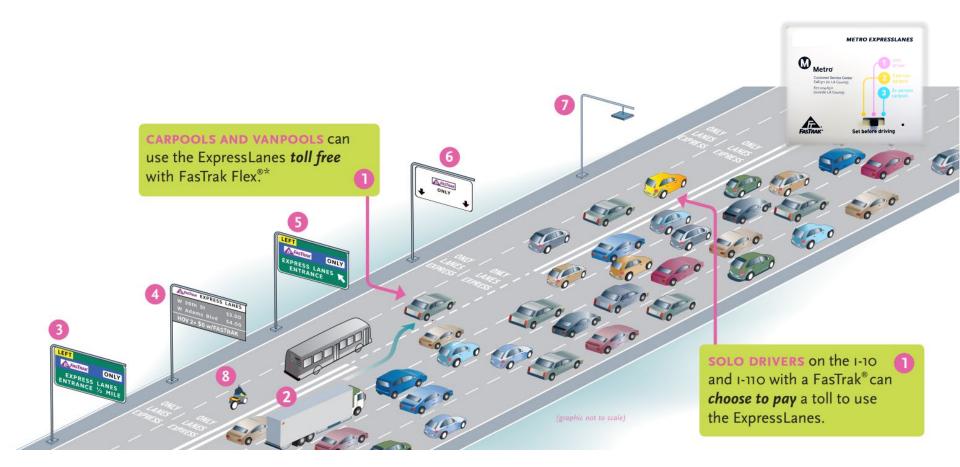
- Initiated as a one-year congestion reduction demonstration project.
 - I-110 opened in November 2012
 - I-10 opened in February 2013
- The ExpressLanes were developed in partnership with FHWA, Caltrans and CHP.
- The Metro Board and California Legislature approved tolling in perpetuity.





How Metro ExpressLanes Work









I-10/I-110 ExpressLanes Performance



From November 2012 to July 2019



1,011,177 transponders have been issued

239,157,480 trips have been taken on ExpressLanes

Benefits and Incentives

Low-Income Assistance Plan: 19,629 accounts have been opened



Transit Rewards: \$193,834 in credits have been disbursed to bus patrons



AM Peak Throughput

ExpressLanes

General Purpose

109,104 vehicles

97,205 vehicles

175,028 persons

135,887 persons

Users Pay on average



\$5.27 \$3.51 during pm peak

\$0.90 during off-peak

0.66% of users have paid a maximum of \$22.20



\$6.09 during am peak

\$3.71 during pm peak during off-peak

1.15% of users have paid a maximum of \$22.50



Users Go Faster & Get There Quicker

Compared to General Purpose Lanes

Average Peak Speed



56.3 mph westbound

59.0 mph eastbound

Average Time Savings*

13.7 minutes am peak

8.2 minutes pm peak



54.1 mph northbound

57.1 mph southbound

12.6 minutes am peak

3.0 minutes pm peak

*Time savings from FY18





ExpressLanes Strategic Plan









I-105 ExpressLanes





I-105 Project Background



- Project is included in the Los Angeles County ExpressLanes
 Strategic Plan as a Tier 1 (near-term) project
- Project is included in the SCAG 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS); will be included in the 2020 RTP/SCS
- Caltrans completed the I-105 Project Initiation Document (PID) (Project Study Report-Project Development Support) in September 2015
- The Measure M local transportation sales tax passed in November 2016 provides \$175M for this project
- This project is also included in Metro's Twenty-Eight by '28 initiative to complete 28 transportation projects by the 2028 Olympics





Project Overview



• The project limits for the proposed ExpressLanes on the I-105 are between the I-405 and I-605, a distance of 15.7 miles







Project Need



- I-105 experiences heavy demand during peak commute hours that exceeds the freeway's capacity.
- Between 200,000 to 250,000 daily vehicles on an average weekday, some locations as high as 300,000.
- HOV lane is degraded per Federal guidelines (speeds are less than 45 miles per hour during peak periods).
 - It takes 36 minutes to drive the HOV lane eastbound during the PM peak compared to 15 minutes with no congestion.
- Peak period speeds average 25 miles per hour or less in the General Purpose lanes.
 - It takes 43 minutes to drive the corridor eastbound during the PM peak period compared to 15 minutes with no congestion.





HOV Lane Degradation



According to the 2017
 Caltrans HOV Degradation
 Report, significant sections
 of the I-105 HOV lanes are
 degraded







Project Purpose



- Enhance operations and improve trip reliability and travel times,
- Improve traffic flow, and
- Sustain and proactively manage mobility within the corridor

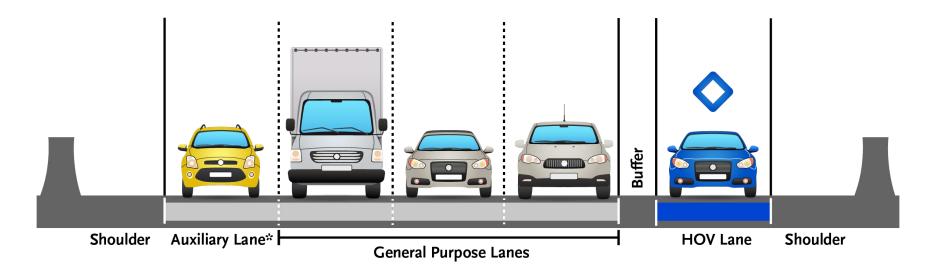




Alternative 1



Existing Conditions (No Build)



- Graphic illustrates current conditions with no changes
- No additional travel lanes or ramp improvements would be installed

*Note: Auxiliary Lane is only in certain locations on I-105.

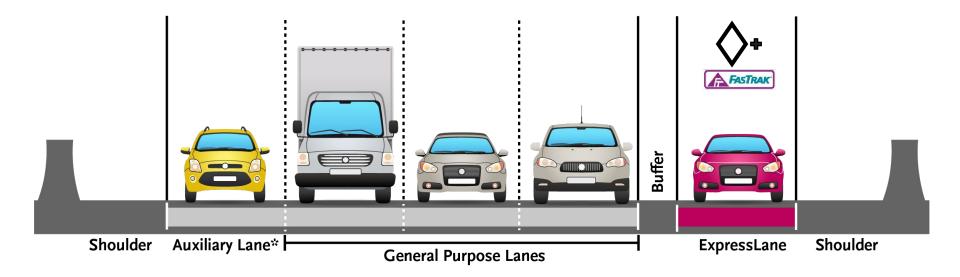




Alternative 2



Convert HOV to One (1) ExpressLane (Standard Lane Width)



- Convert existing HOV to one (1) ExpressLane in each direction with standard (12 ft) lane width
- Add ExpressLanes toll equipment, signage, pavement markings

*Note: Auxiliary Lane is only in certain locations on I-105.

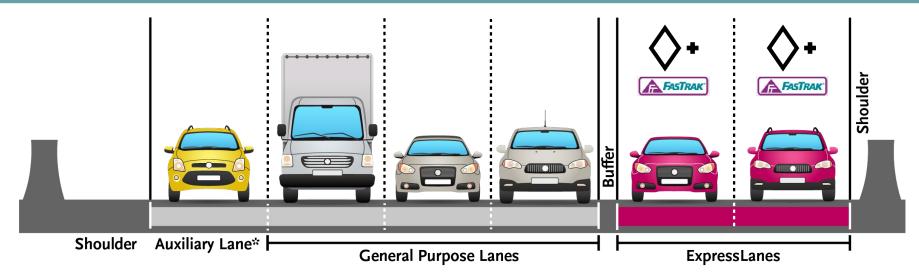




Alternative 3



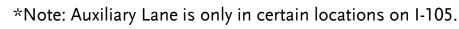
Two (2) ExpressLanes (Non-standard Lane Widths)



- Convert existing HOV lane to one (1) ExpressLane and add a second ExpressLane in each direction
- Non-standard lane and shoulder widths
 - Lane could be reduced from 12 ft to 11 ft
- Add ExpressLanes toll equipment, signage, pavement markings
- Potential Limited Right of Way Additions



Metro





Facility Design



- ExpressLanes will be separated from General Purpose lanes by a double white striped buffer; channelizers possible
- Limited access; will maintain existing ingress/egress locations and add weave lanes at most ingress/egress locations









Operational Characteristics



For consistency, Metro expects that the operational characteristics for the I-105 ExpressLanes will be **similar to the existing I-10/I-110 ExpressLanes**:

- Operate 24/7
- Utilize dynamic pricing tolls would vary based on congestion and can refresh as often as every five minutes
- Offer qualifying Clean Air Vehicles a 15% discount
- Enhance transit in the corridor
- Implement the Low Income Assistance Plan, Carpool Loyalty, and Transit Rewards programs
- Occupancy Policy is To Be Determined





Enforcement



- Enforcement will be multi-faceted utilizing technology, facility design, and the California Highway Patrol
- Technology:
 - Enforcement beacons numeric and beacon display of vehicle occupancy
 - Occupancy detection system camera system to electronically verify the number of occupants in a vehicle
- Dedicated CHP observation areas and patrols
 - Enforcement beacons co-located with CHP observation areas
- Channelizers to prevent vehicles from crossing double white line





State and Federal Roles and Responsibilities



Caltrans

- > Preparing and Approving the Environmental Document
- Reviewing and approving all design and operation plans, including construction and maintenance activities within state right-of-way.
- > General maintenance, maintenance of physical infrastructure (pavement, median barriers, structures)
- Federal Highway Administration (FHWA)
 - > Attending regular PDT & ConOps meetings
 - > Reviewing and providing input on Draft documents
 - > 105 ExpressLanes is a "Project of Division Interest" (PODI)





Performance Benefits



Daily Person Throughput, 2017-2040

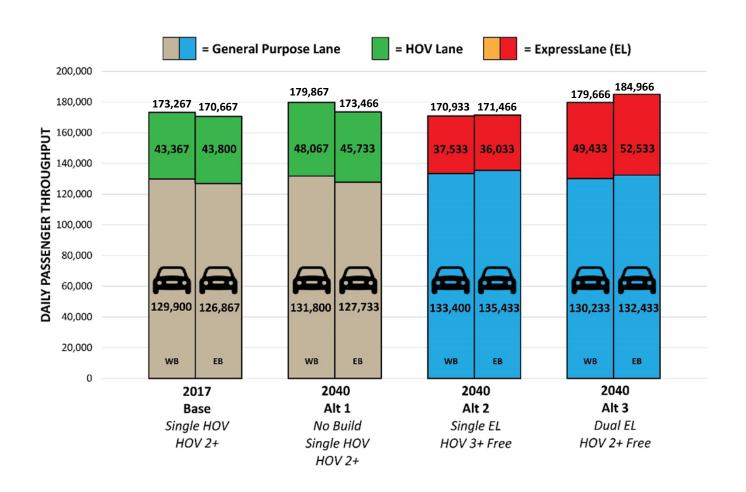
	2017 Base	2040 No Build	2017-2040 growth	2017-2040 growth %
General Purpose	2027 2030	24.14	8.011111	Bi Otteri 70
lanes	256,767	259,533	2,766	1.1%
ExpressLanes	87,167	93,800	6,633	7.6%
Total	343,934	353,333	9,399	2.7%





Daily Person Throughput



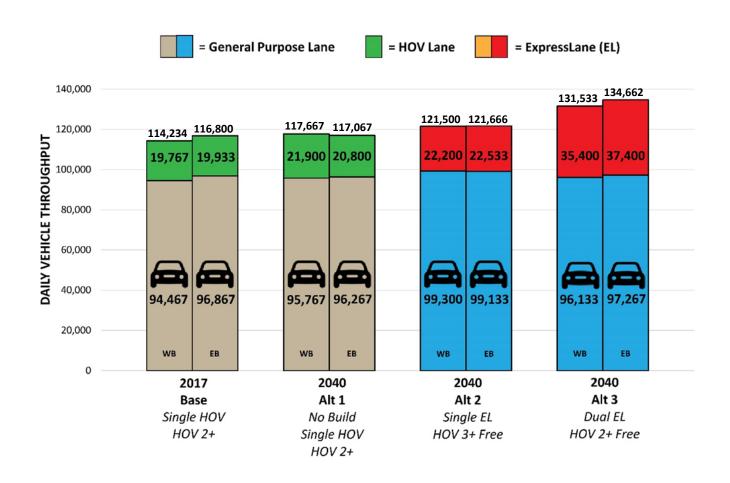






Daily Vehicle Throughput



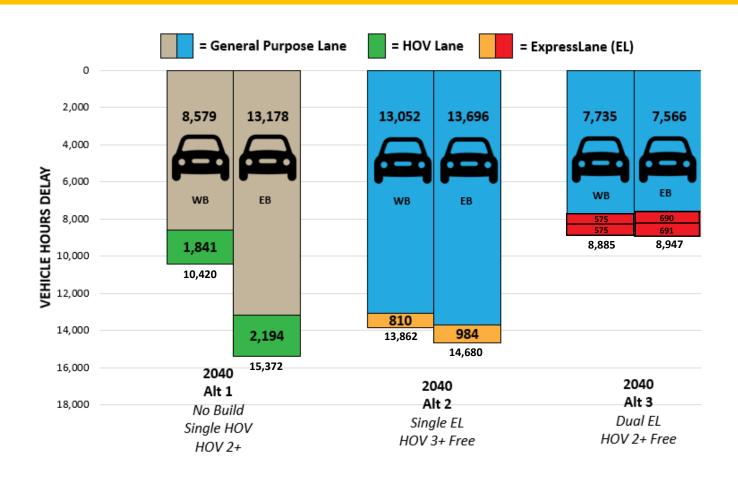






Vehicle Hours of Delay









Travel Time Analysis – GP Lanes



 If ExpressLanes are implemented, the travel time analysis for end to end travel in the General Purpose (GP) lanes shows the following (in minutes):

	2040 No Build	Alternative 2 (convert HOV lane to single ExpressLanes)	Delay/Time Savings (in minutes)	Alternative 3 (convert HOV lane to dual ExpressLanes)	Time Savings (in minutes
Westbound AM Peak	29	48	19 more	29	0
Eastbound AM Peak	22	19	3 less	17	5 less
Westbound PM Peak	24	21	3 less	18	6 less
Eastbound PM Peak	38	55	17 more	37	1 less

Note:

Alternative 2 assumes HOV3+ free (3 person carpools travel free)

Alternative 3 assumes HOV2+ free (2 person carpools travel free)





Travel Time Analysis – Expresslanes



 If ExpressLanes are implemented, the travel time analysis for end to end travel in the ExpressLanes shows the following (in minutes):

	2040 No Build	Alternative 2 (convert HOV lane to single ExpressLanes)	Time Savings (in minutes)	Alternative 3 (convert HOV lane to dual ExpressLanes)	Time Savings (in minutes)
Westbound AM Peak	29	17	12 less	18	11 less
Eastbound AM Peak	17	17	0	15	2 less
Westbound PM Peak	22	16	6 less	17	5 less
Eastbound PM Peak	33	17	16 less	18	15 less

Note:

Alternative 2 assumes HOV3+ free (3 person carpools travel free)

Alternative 3 assumes HOV2+ free (2 person carpools travel free)





Summary of Performance Benefits



Alternative 2

- Addresses existing HOV lane degradation and would restore HOV lane performance to meet Federal standards
- Modest improvement in vehicle throughput
- Mixed benefit for vehicle delay

Alternative 3

- Addresses existing HOV lane degradation and would restore HOV lane performance to meet Federal standards
- Reduces daily Vehicle Hours of Delay by 30.9% and travel time for both the ExpressLanes and General Purpose Lanes
- Increases passenger throughput by 3.2%
- Increases vehicle throughput by 13.4%





Environmental Documents and Studies



- Project Approval/Environmental Document (PA/ED)
 - > Project Report
 - Environmental Impact Report (EIR),
 pursuant to California Environmental Quality Act (CEQA)
 - Environmental Assessment (EA),
 pursuant to National Environmental Policy Act (NEPA)
 - Caltrans is the CEQA/NEPA Lead Agency for EIR/EA
- Determined to **not** be a "Project of Air Quality Concern" by the SCAG Transportation Conformity Working Group (TCWG)
 - TCWG composed of EPA, FHWA, and Caltrans





Funding Plan



Source	Project Development	Construction	Total
CMAQ	\$2,607	\$0	\$2,607
Metro Sales Tax Funds	\$62,907	\$0	\$62,907
Other Federal or State Funding	\$0	\$125,000	\$125,000
Other Local/Toll Revenue-Backed			
Obligations	\$0	\$330,390	\$330,390
Total Programmed	\$65,514	\$455,390	\$520,904

- The current estimated project cost for Alternative 3 (dual ExpressLanes) is \$520,904,000
- The Measure M local sales tax provides \$175M for the project. Some of these funds will be used for project development and the remainder will be used to repay the toll revenue-backed obligations
- "Other Federal or State Funding" may include SB1 grants or other federal grants.





Public Outreach



Event Type	Number of Events
Agency and Jurisdictional Briefings	22
Business Roundtable	1
Community Events	26
Pop-Up Booths	4
Presentations	6
Public Meetings	7
Stakeholder Briefings	5
Stakeholder Roundtables	3

- As part of the PA/ED, Metro and Caltrans have initiated an extensive and ongoing outreach program to inform and engage stakeholders in the I-105 corridor.
- To date, 74 meetings, presentations, and outreach events have taken place for this project since February 2018





Public Meetings



- Scoping Meetings
 - > 1 agency and 3 scoping meetings in March 2018
 - Lennox, Watts, and Paramount
- Stakeholder Roundtable meetings
- Community Update Meetings
 - > Held in April 2019
- Business Roundtable
 - > Held in August 2019
- Public Hearings
 - > Public hearings will be held when the draft EIR/EA is released





Outreach Methods



- Website: metro.net/105expresslanes
 - > Contains fact sheets, FAQs, recordings of scoping and community update meetings
- Project email: 105expresslanes@metro.net
- Project hotline: 213.922.6565
- E-blasts current stakeholder database of almost 2,100 entries
- Social media outreach targeted ads using Facebook
- Direct mailing within 750 ft. on both sides of the I-105
- Newspaper Advertisements (print and digital)
- Metro Green Line park and ride lots (10) flyer drops





Implementation Schedule



Project Initiation Document	September 2015
Project Scoping	April 2018
Submit application for tolling authority to CTC	Summer 2019
Draft Environmental Document Circulation	Fall 2019
T&R Investment Grade Study	Fall 2019
Draft Concept of Operations	Fall 2019
Final Environmental Document (EIR/FONSI) Approval	Summer 2020
Project PS&E	Summer 2021
Right of Way Certification	Fall 2021
Release RFP (Ready to List)	Spring 2022
Construction NTP	Fall 2022
Substantial Completion	December 2024
Project Complete	March 2025





Thank You!







