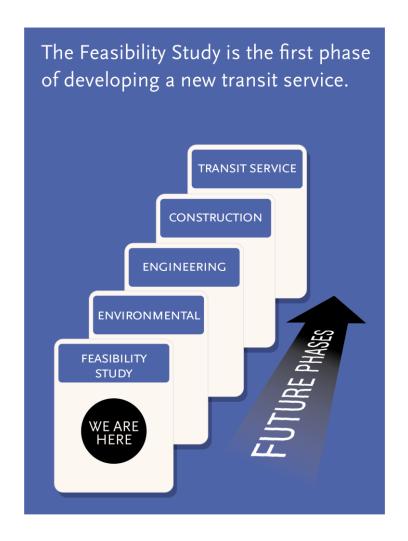


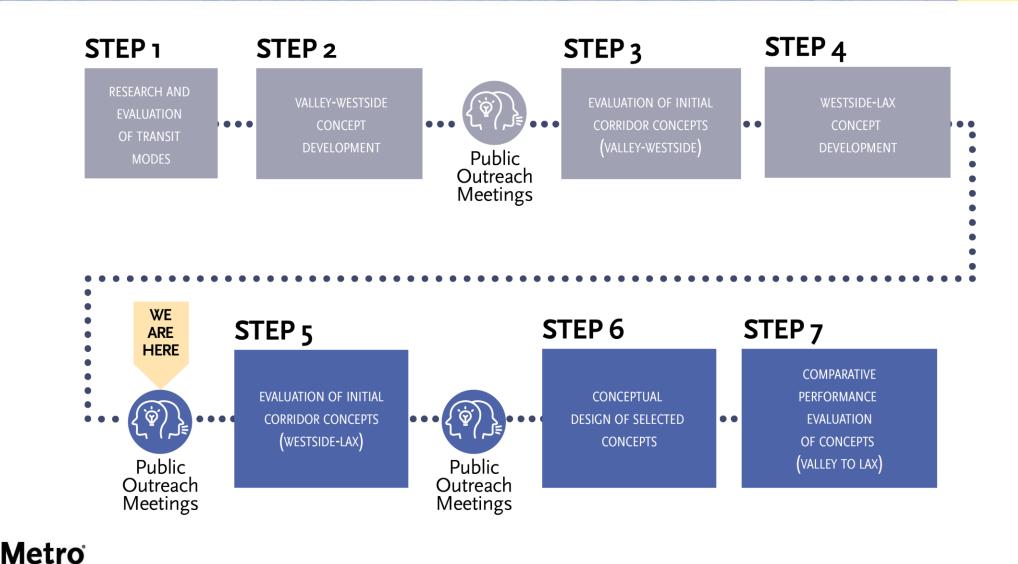
Purpose of Meeting

- > Present evaluation of Valley-Westside concepts
- > Present initial Westside-LAX concepts
- > Gather community feedback





Study Process



Overview: I-405 Corridor History

- > **2008:** Measure R provides \$1 billion for I-405 corridor (2039 opening year)
- > **2014:** I-405 Sepulveda Pass Widening Project opened to traffic
- > **2016:** Measure M provides over \$9 billion for I-405 transit improvements
 - \$260 million for ExpressLanes on I-405 (opening year 2026)
 - \$5.7 billion for Valley-Westside transit (opening year 2033)
 - \$3.8 billion for Westside-LAX transit (opening year 2057)
- 2018: Valley-Westside Section of the project is identified as eligible for acceleration for 2028 Olympic and Paralympic Games
- > **Ongoing:** Project Feasibility Study underway and Project being evaluated for a public-private partnership



Project Study Area

- > Approximately 22 miles long
- > Generally follows Interstate 405
- > Primarily within the City of Los Angeles, but also portions of:
 - City of Santa Monica
 - Culver City
 - City of Inglewood
 - Unincorporated Los Angeles County





Scope of Feasibility Study

- > Study Area divided into two sections:
 - Valley-Westside
 - Westside-LAX
- > Rail transit concepts between the San Fernando Valley and LAX.
- Connections to existing/planned transit corridors.
- Alignments and station locations, including Park
 & Ride.
- Maintenance facility requirements.





Projects in Planning or Construction





East San Fernando Valley Transit Corridor

- > At-grade LRT with 14 Stations
 - 6.7 Miles on Van Nuys Boulevard
 - 2.5 Miles on railroad right-of-way along San Fernando Road
- > Approved by Metro Board in June 2018
 - Groundbreaking in 2022
 - Opening in 2028



East San Fernando Valley Transit Corridor



- I. Sylmar/San Fernando
 Metrolink Station
- 2. Maclay Station
- Paxton Station
- 4. Van Nuys/San Fernando Station
- 5. Laurel Canyon Station
- 6. Arleta Station
- 7. Woodman Station
- 8. Nordhoff Station
- 9. Roscoe Station
- 10. Van Nuys Metrolink Station
- 11. Sherman Way Station
- 12. Vanowen Station
- 13. Victory Station
- 14. Metro Orange Line Van Nuys Station

Project Purpose and Need

Provide a **high-quality transit service** that effectively serves a **large and growing travel market** between the San Fernando Valley and the Westside, including the LAX area.

For transit to be a **competitive travel option** that attracts new riders, there is a need to **increase the speed, frequency, capacity and reliability of transit service** and provide **convenient connections** to existing and planned transit corridors.





Evaluation Criteria



Community Input



Compatibility with Local and **Regional Plans**



Cost



Cost-Effectiveness



Potential Environmental Effects



3 Reliability



Ridership



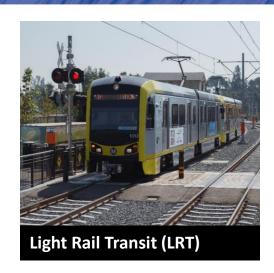
Sustainability



Travel Time Savings



Transit Modes Under Consideration



- > High speed (up to 65 mph)
- > Typical capacity of 4,800 passengers per hour per direction
- > Can share track with planned Metro LRT lines
- > Currently in use by Metro



- > High speed (up to 70 mph)
- > Typical capacity of 12,000 passengers per hour per direction
- > Currently in use by Metro



- Can operate on the surface over the steep inclines through the Sepulveda Pass
- > Typical capacity of 7,500 passengers per hour per direction for monorail or 15,000 for rubber tire

Notes:

All capacities are approximate and depend on vehicle and system design.

LRT based on 3-car trains at 5-minute frequency. HRT based on 6-car trains at 4-minute frequency.

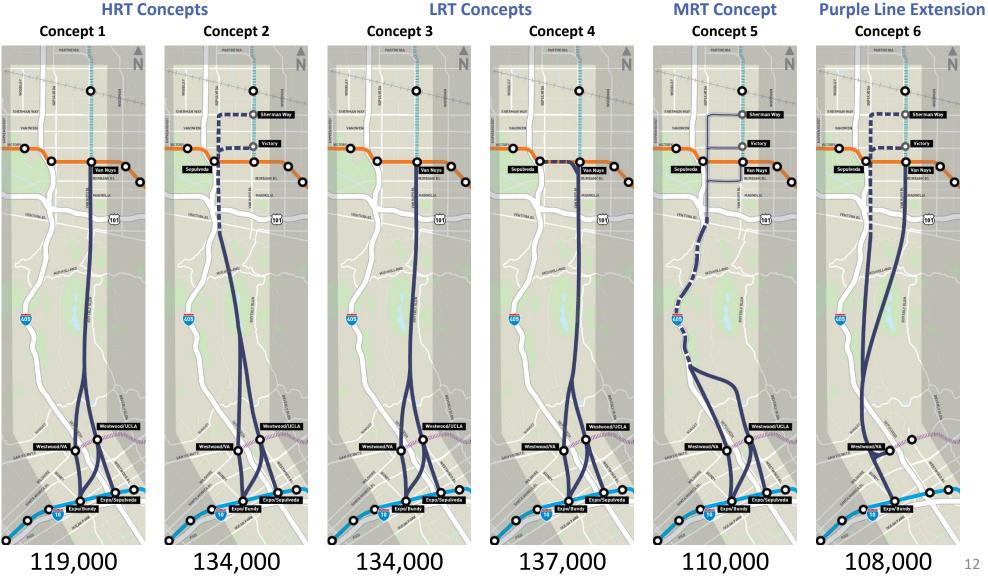
Monorail based on 3-car trains at 4-minute frequency. Rubber tire based on 8-car trains at 4-minute frequency.

Initial Valley-Westside Transit Concepts

(All concepts planned to allow extension to LAX)



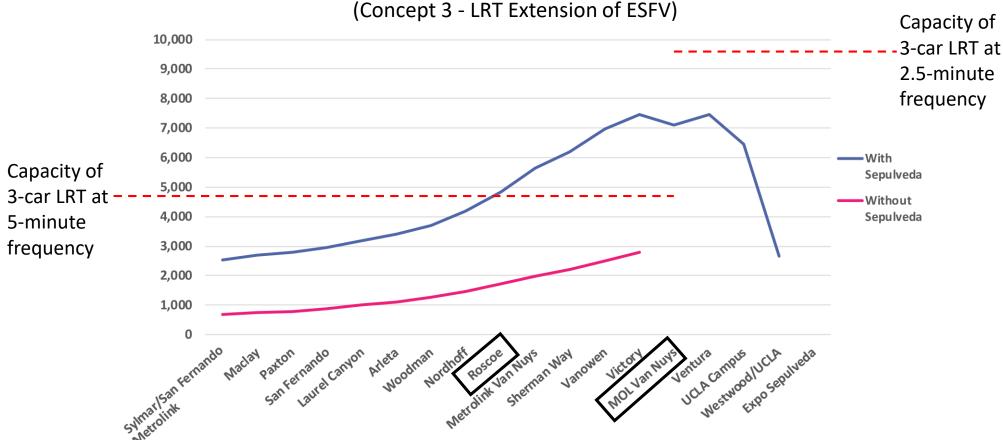
Note: Ridership forecasts reflect train frequency but are not constrained by train capacity.



Daily Project Trips

Demand Exceeds Capacity on ESFV





The overloading issue illustrated in this graph also applies to the other LRT concept (Concept 4).

Note: Ridership forecasts reflect demand and are not constrained by capacity.

Metro

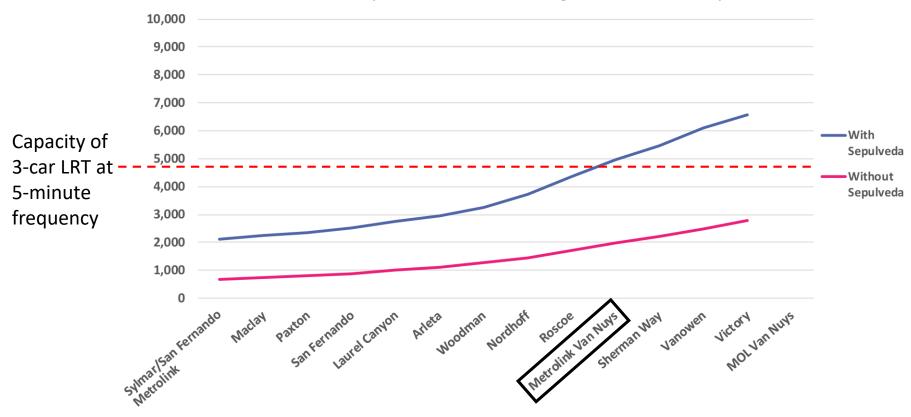




Demand Exceeds Capacity on ESFV

ESFV Load, Southbound Trains, AM Peak Hour, 2042

(Concept 1 - HRT connecting at MOL/Van Nuys)





> The overloading issue illustrated in this graph also applies to the other HRT and MRT concepts (Concepts 2, 3, 5, and 6).



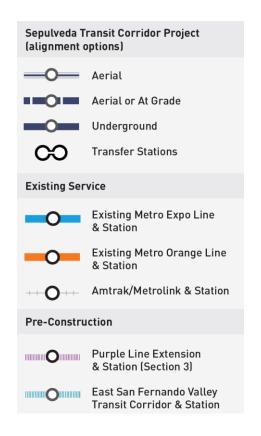


Response to Ridership of Initial Concepts

- > Eliminate LRT concepts from consideration insufficient capacity along ESFV corridor for one-seat ride
- > Refine the initial MRT and HRT concepts to extend farther north – intercept demand on ESFV
- > Eliminate other lower performing concepts/options:
 - Purple Line Extension lowest performer
 - Connection at Westwood/VA low ridership



Refined Valley-Westside Transit Concepts







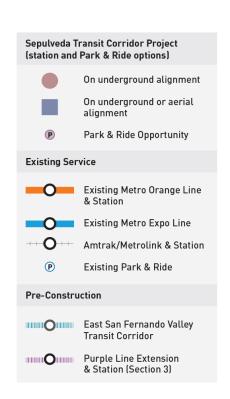




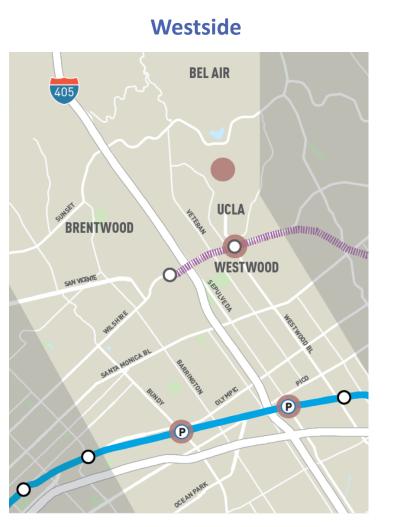


Daily Project Trips

Valley-Westside Stations and Access





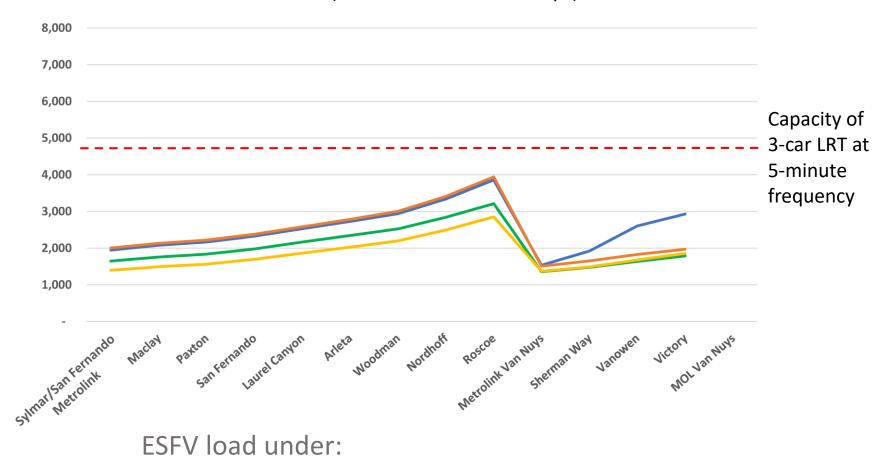




Demand Within Capacity on ESFV



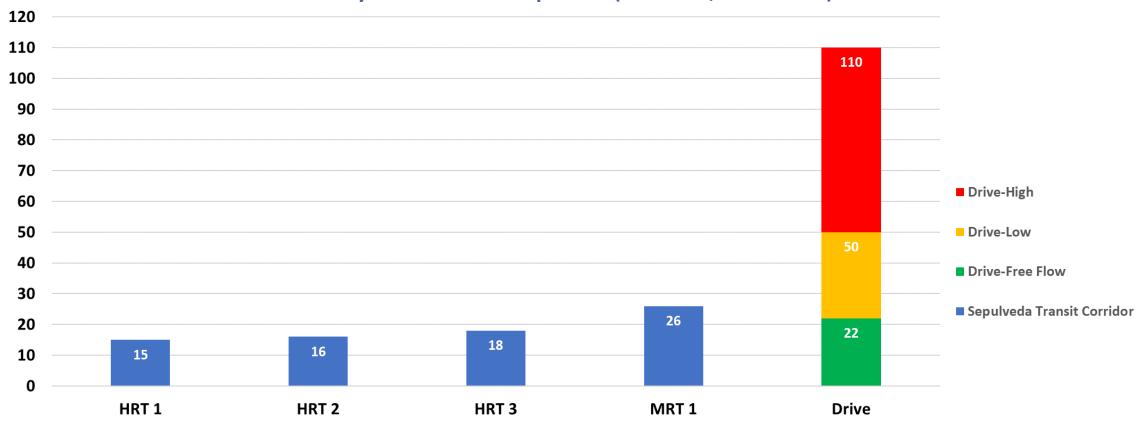
(Per Each Refined Concept)





Travel Times By Mode – Refined Concepts



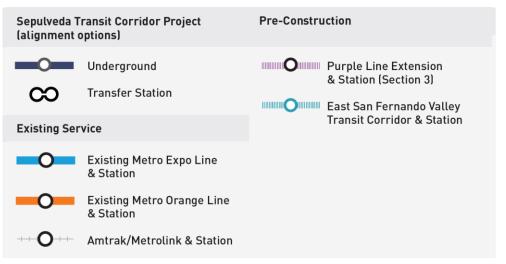




Refined Concepts – HRT 1





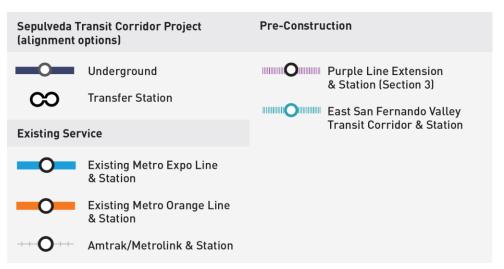




Refined Concepts – HRT 2









HRT 1, HRT 2: Key Strengths and Challenges

> Strengths

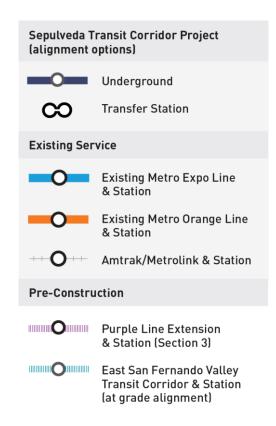
- Excess capacity to serve growth
- Fastest travel time
- Fewer property impacts due to underground alignment

> Challenges

- Major water main & storm drains
- Tunneling underneath ESFV





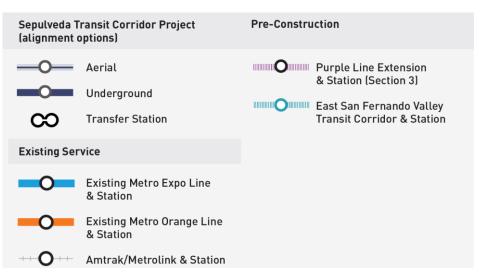




Refined Concepts – HRT 3









HRT 3: Key Strengths and Challenges

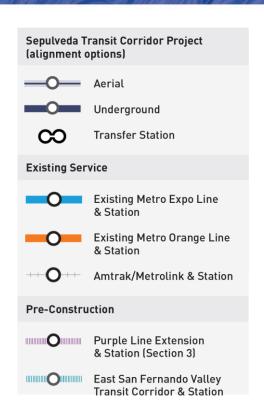
> Strengths

- Excess capacity to serve growth
- Potential construction cost savings (with aerial section)
- Faster travel times
- Sherman Way station provides Park & Ride opportunity

> Challenges

- Major water main & storm drains
- Greater property impacts along aerial sections
- Loss of parking on Sepulveda Boulevard

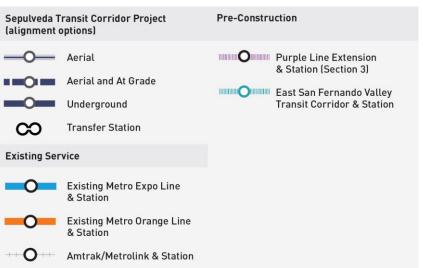




Refined Concepts – MRT 1









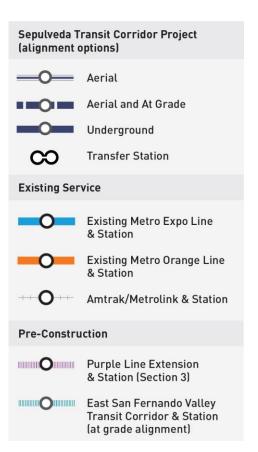
MRT 1: Key Strengths and Challenges

> Strengths

- Potential construction cost savings
- Operates on steep grades
- Excess capacity to serve growth

> Challenges

- Slow average speed
- Open space, wildlife crossings, and streams in Sepulveda Pass
- Major water main & storm drains
- Greater property impacts along aerial sections
- Loss of parking on Sepulveda Boulevard





Summary of Refined Concepts

	HRT 1	HRT 2	HRT 3	MRT 1
Ridership (daily)	123,000	120,000	133,000	105,000
Travel Time (Metrolink to Expo Line, in minutes)	15	16	18	26
Connectivity				
Capacity				
Fewer Environmental and Community Impacts				
			Low (does not meet goal)	High (meets goal)



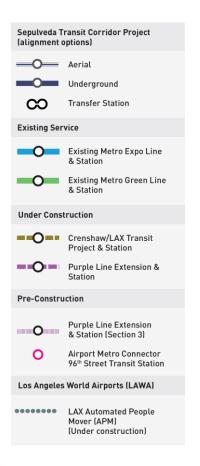
Development of Initial Westside-LAX Concepts

- > Goal is to evaluate alignments and identify major feasibility issues:
 - Preserve the ability to extend to LAX from Expo/Sepulveda or Expo/Bundy
 - Connect major activity centers
 - Use existing transportation corridors





Sepulveda/I-405 Concepts





Monorail/Rubber Tire





Centinela Concepts



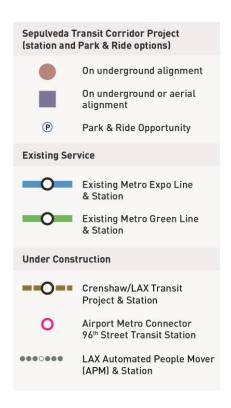


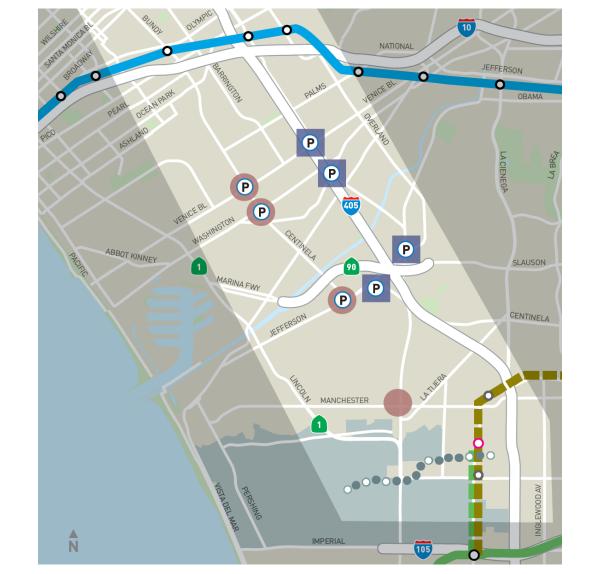
Purple Line Extension





Westside-LAX Stations and Access







Feasibility Study Schedule





Community Meeting Schedule

- > This is the second of three rounds of community meetings for the Feasibility Study:
 - Wednesday, January 30, 2019 6-8pm Westwood Presbyterian Church
 - Saturday, February 2, 2019 10am-12pm Marvin Braude Constituent Service Center
 - Tuesday, February 5, 2019 6-8pm Proud Bird Restaurant

How to Provide Input



Cory Zelmer, Project Manager

Metro

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Thank You

> Q&A

