Los Angeles – Glendale – Burbank Feasibility Study





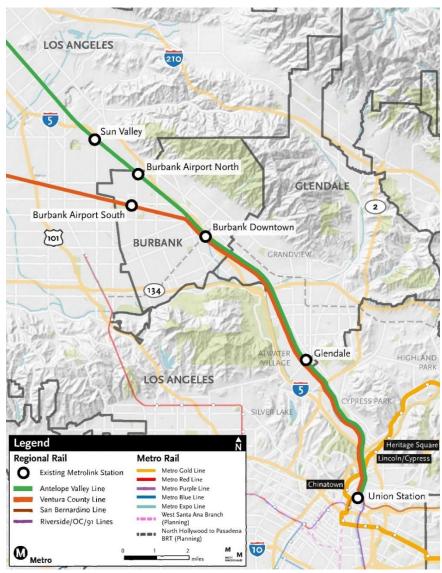
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Metro Board Motion

At the March 2016 Board Meeting, Directors Najarian, Garcetti, and Antonovich directed the CEO to conduct a study to:

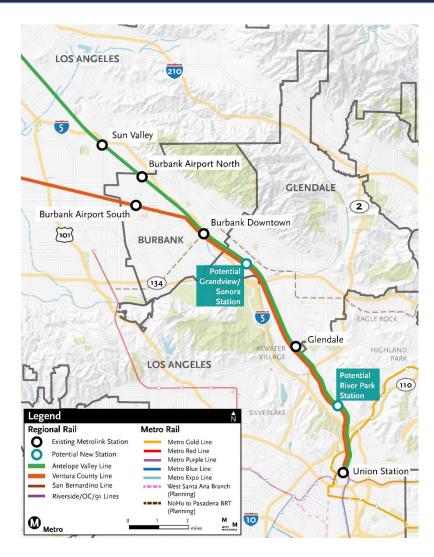
- Reassess the previously environmentally cleared light rail transit project in the Los Angeles-Glendale-Burbank corridor (1992);
- Identify rail connectivity through different rail technologies for the corridor; and
- 3. Form a working group consisting of key stakeholder cities.





Assess Potential Station Locations

- Per the motion, up to two station sites in the City of Los Angeles and up to two station sites in the City of Glendale were evaluated
- Five station sites were initially identified and evaluated based on criteria such as stakeholder feedback and surrounding transit usage
- Stakeholders and analysis confirmed selection of the River Park and Grandview/Sonora station locations to be studied further, if desired.





Potential Metrolink Station Renderings

River Park



<u>Pros</u>: New multi-family housing, new/existing recreational developments (G2 Park and Taylor Yard Ped/Bike Bridge) and existing schools located within walking distance. Likely to have sufficient right-of-way width and space for some parking provision.

<u>Cons</u>: Site located on curve (not ideal for rail operations) and in close proximity to Central Maintenance Facility.

Cost: \$52 Million (2018\$)

Grandview/Sonora

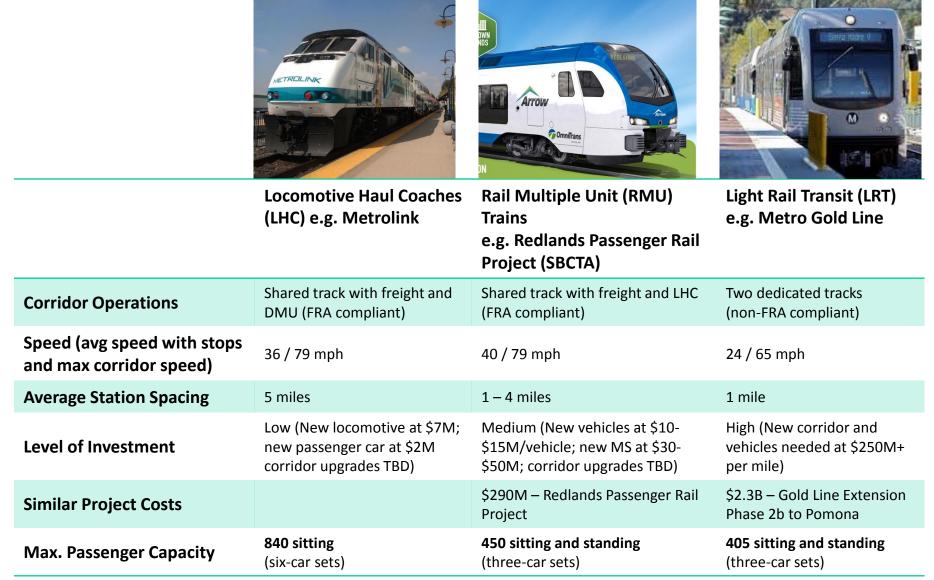


<u>Pros</u>: Large employer campuses (Disney & DreamWorks) are located within walking distance; high bus ridership in this area.

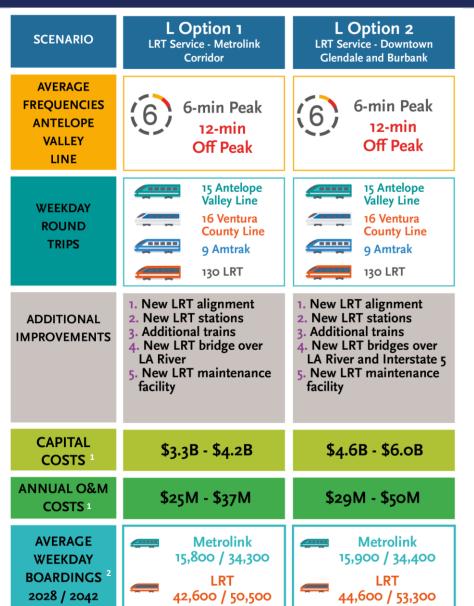
<u>Cons</u>: Location between two at-grade crossings may impact gate times at those intersections. Existing Quiet Zone designation requires additional safety infrastructure at crossings. Limited space for parking provision.

Cost: \$24 Million (2018\$)

Evaluate Rail Service by Mode



Light Rail Transit (LRT) Scenarios





- 1 Costs reported in 2018 \$
- 2 Ridership reflects AVL passengers only

Rail Multiple Unit (RMU) Scenario

*Metrolink's Locomotive Haul Coach trains is better suited for AM/PM peak services, with 840 passengers per train using a blended approach with RMU trains (at 450 passengers) for the mid-day services.

RMU Option *

Blended Metrolink + RMU service to Via Princessa

AVERAGE FREQUENCIES ANTELOPE VALLEY



WEEKDAY ROUND TRIPS

LINE

SCENARIO



ADDITIONAL **IMPROVEMENTS**

- 1. Station mods at existing stations for RMUs
- 2. New RMU stations
- 3. Additional trains
- 4. North AVL Improvements
- 5. New RMU maintenance facility
- 6. Optional third track and station modifications to Glendale and Burbank-Downtown

CAPITAL COSTS

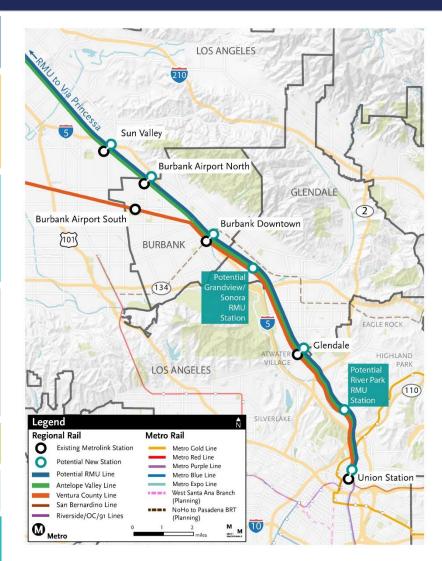
\$849M

ANNUAL O&M COSTS 1

\$30M

AVERAGE WEEKDAY **BOARDINGS** 2 2028 / 2042

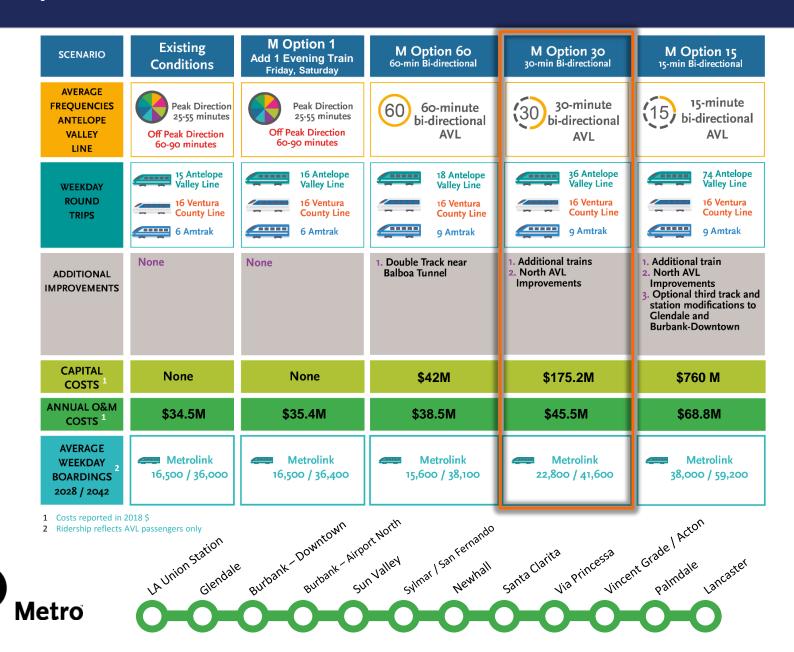
Metrolink and **RMU** 34,900 / 52,400



- 1 Costs reported in 2018 \$
- 2 Ridership reflects AVL passengers only



Proposed Metrolink AVL Service Scenarios



Evaluation Criteria & Study Results

		Metrolink 60M	Metrolink 30M	Metrolink 15M	RMU	LRT in Corridor	LRT Glendale/ Burbank
\Rightarrow	Transit Accessibility						
	Ridership						
82	Stakeholder Preferences						
<u></u>	ROW Requirements						
	Environmental Constraints						
P	Parking Considerations						
8	Travel Time & Headways						
	Integration of Operations						
	Capital & Operating Costs						





Conclusion





The Metrolink 30-min option is the preferred scenario

- 1. Strong ridership growth is achieved, an increase from 7,000 daily passengers today to 22,000 daily passengers in 2028 and 40,000 daily passengers in 2042.
- Much lower capital costs (\$175.2M) compared to RMU (\$849B) and LRT (\$4.2B up to \$6B) scenarios
- 3. Most of all of the required capital improvements to serve 30 min service are within Metro owned ROW with limited environmental and right-of-way impacts.
- 4. Allows for incremental approach to service expansion based on demand and funding.
- **letro**5. Allows for future services in the corridor (e.g. Virgins Trains high-speed rail, RMU).

Questions?

