Los Angeles County Metropolitan Transportation Authority

Flower Street Bus Only Lane

Evaluation





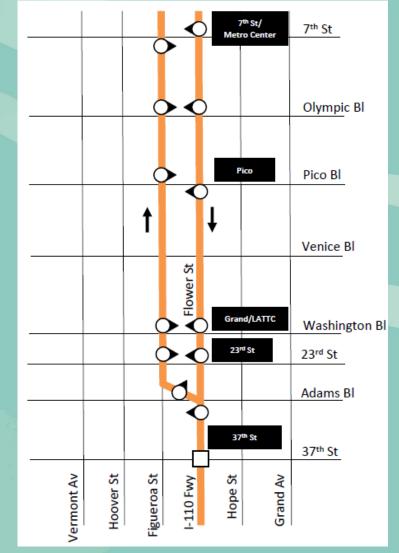
October 2019

Background

Partnership with City of Los Angeles to provide <u>fast</u> and <u>reliable</u> bus service during "New Blue" Metro Rail Capital Improvements Project.

- Pilot began June 3, 2019
- Weekday PM Peak Periods from 3:00 to 7:00 PM
- Supported up to 80 buses per hour (every 45 seconds)

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Evaluation: Criteria

Metro Silver Line (Line 910/950) and Blue Line Express Bus Shuttle (Line 860) were analyzed for:

- Overall travel time
- Travel time variability
- Customer and bus operator feedback of Bus Only Lane





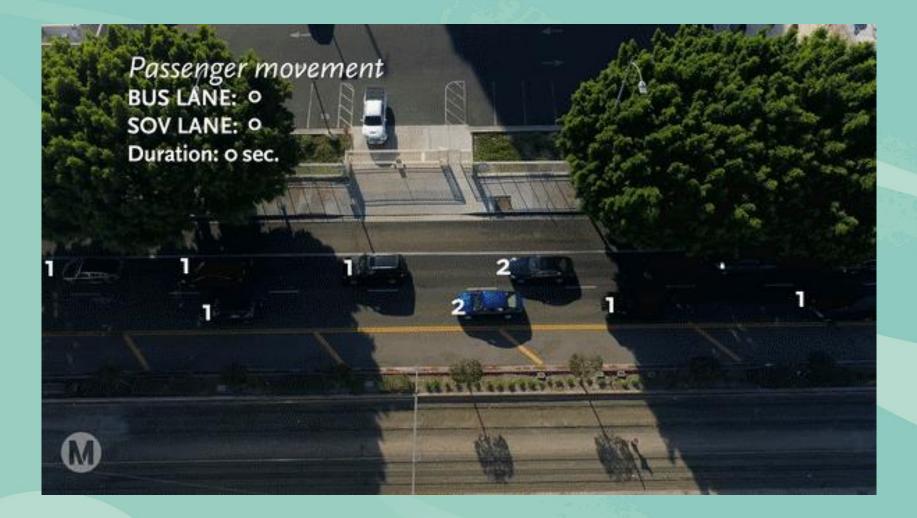
Flower St Bus Only Lane near LATTC/Ortho Institute Station

Evaluation: Key Events

Key Events Impacting Speed & Reliability			
	Before – General Traffic Lane	Mid - Initial Bus Only Lane Operation	Post - Adjusted Bus Only Lane Operation
	New Blue Phase I: Jan through May 2019	New Blue Phase 2: Jun through mid-Aug 2019	mid-Aug 2019 through Present
1.	Up to 53 buses per hour	Up to 80 buses per hour	Up to 70 buses per hour
2.		Jun 24, 2019: Expo Line Closure (Added Expo Shuttle Line 856)	Aug 24, 2019: Expo Line Reopens (Expo Shuttle Line 856 cancelled)
3.		Jun 24, 2019: Added 4 additional Silver Line buses to PM peak period	

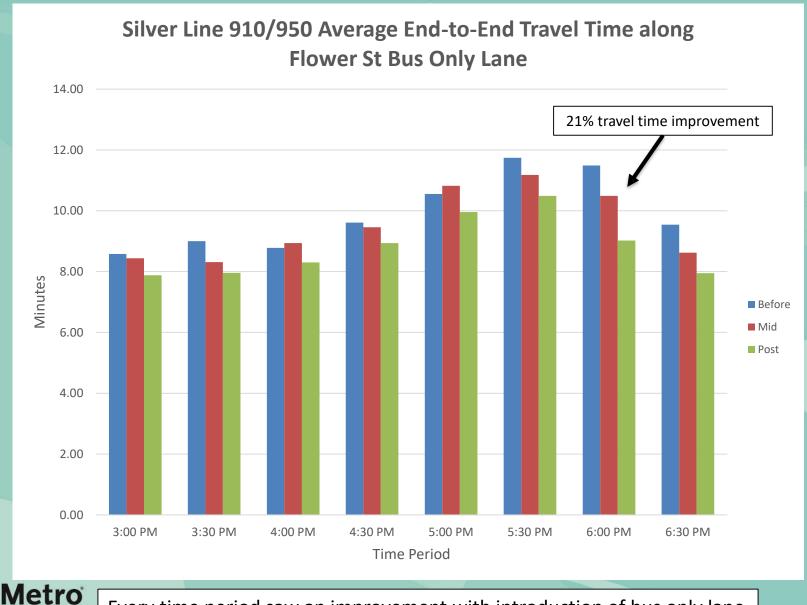


Travel Time Improvement Results



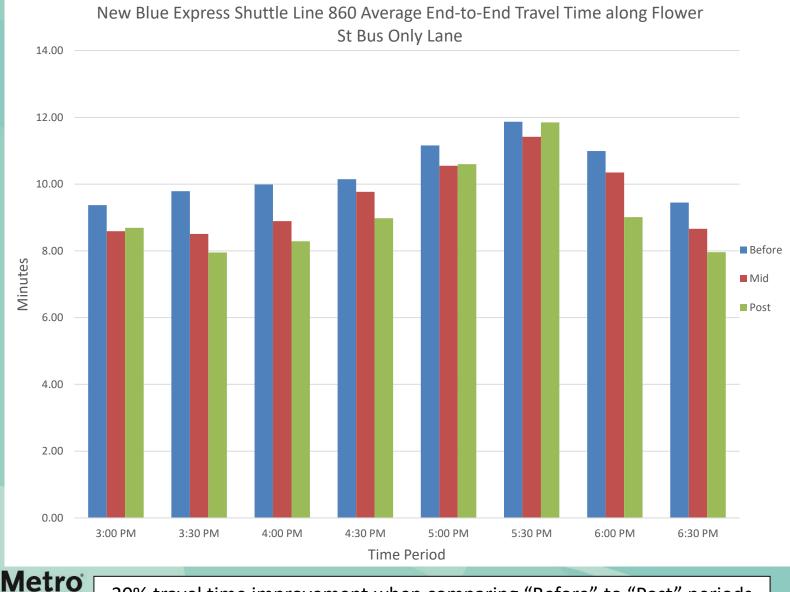


Travel Time Improvement Results (Silver Line)



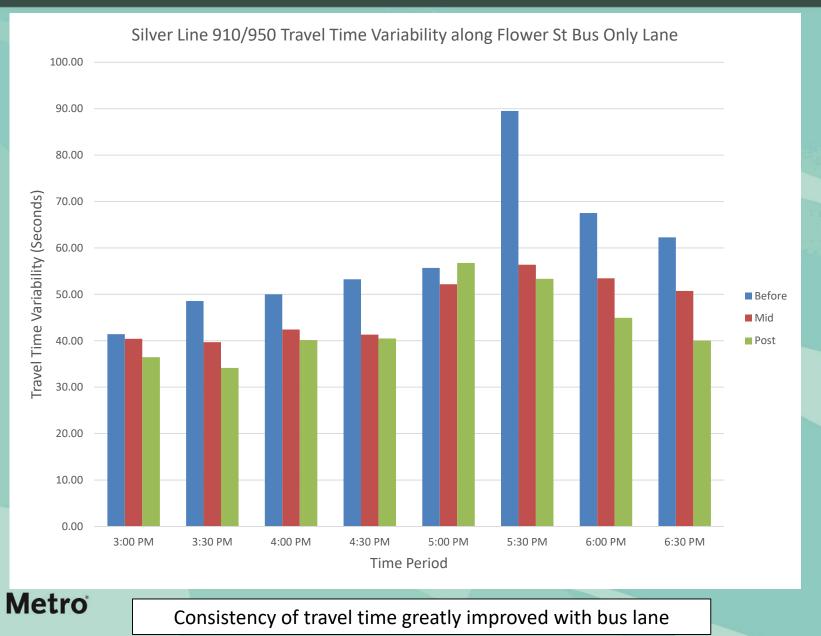
Every time period saw an improvement with introduction of bus only lane

Travel Time Improvement Results (Line 860)

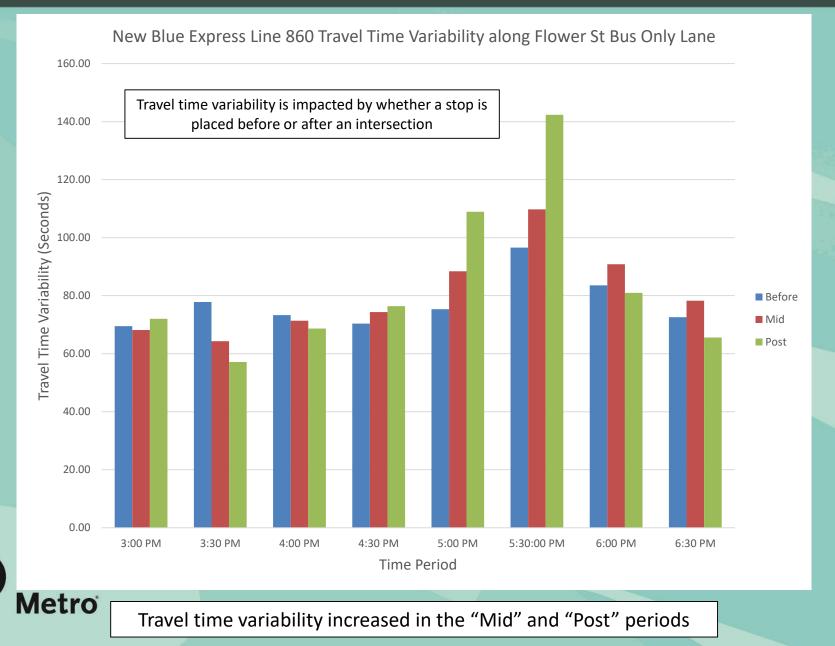


20% travel time improvement when comparing "Before" to "Post" periods

Bus Travel Time Variability Results (Silver Line)



Bus Travel Time Variability Results (Line 860)



Customer & Operator Survey Results

Customers and Operators responded positively when asked about the Bus Only Lane

More than 1,300 Customers and over 100 bus operators surveyed

- Over 65% of all respondents believe the bus lane speeds up their trip
 - 1/2 of respondents perceived savings up to 5 minutes
 - 1/2 of respondents perceived savings over 5 minutes
- Nearly 75% of all respondents surveyed believe the bus only lane improves reliability

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Q 238 people are talking about this

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Flower St Bus Only Lane attracted significant media attention

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Lessons Learned (Bus Stop Placement)

• Flower St / Olympic Bl:





Lessons Learned

- Optimal volume of buses per hour essential for maximum bus lane performance
 - Too many buses at once can oversaturate the Bus Only Lane as observed during Mid-phase
- Enforcement and compliance is critical to keeping Bus Only Lanes clear of violators and other obstructions
- Relocating bus stops away from general traffic/turning movements and extending bus stop zones improve Bus Only Lane throughput
 - Avoid non-transit traffic congestion
 - Multiple buses can serve customers at the same stop at the same time
- Disjointed segments of Bus Only Lane for construction activities results in diminishing lane performance
 - Bottlenecks negate overall savings attributed to a continuous Bus Only Lane



Next Steps

Staff Recommendation

- Extend the Flower St Bus Only Lane through March 2020 for additional Post-condition evaluation
- Continue outreach on the future of Flower St bus only lane









Thank you



