







Technical Advisory Committee Meeting 3 – April 28, 2020 2:00 - 3:30pm





Sobers Consulting, lle

AGENDA

- 1. Study update
- 2. Recap of mode/alignment options
- 3. Demand forecast model results
- 4. Conclusions and recommendations
- 5. Discussion path to implementation
- 6. Next steps

STUDY AREA

Paterson

Clifton

Nutley

Belleville







MODE/ALIGNMENT OPTIONS

Light Rail Option A Light Rail Option B Bus Rapid Transit (LRT A) (LRT B) (BRT)







TRANSIT DEMAND FORECAST MODEL

Purpose & Functionality

INPUT

CURRENT YEAR TRIPS

Mode and Origin/Destination

FUTURE REGIONAL GROWTH

Population and Employment Forecasts



Origin/Destination

NEW MODE ATTRIBUTES

Stations/Stops, Fare, Frequency, Travel Time, Mode Choice Parameters

OUTPUT

FUTURE YEAR, NEW MODE TRIPS

Boardings by Station/Stop

EVALUATION CRITERIA

Trips by Station/Stop New Mode Ridership Total Transit Ridership Changes in Auto Trips

TRANSIT DEMAND FORECAST MODEL

Results and Interpretation

MODEL OUTPUTS AND KEY DATA POINTS

2040 Build and No-Build Daily Ridership

Daily Ridership by Alternative

- New segments
- Existing segments (Newark Light Rail)
- Total

Daily Ridership by Municipality

Daily Ridership Changes from No-Build

- New segments
- Existing segments
- Total

Daily Trip Diversions

Access Modes



2040 DAILY RIDERSHIP BY ALTERNATIVE

Totals by Alternative

	No Build	Light Rail A	Light Rail B	Bus Rapid Transit	
Existing Segments	20,340	27,100	23,740		
New Segments		10,600	8,760	11,460*	
Total Daily Boardings	20,340	36,700	32,500	11,460*	

Emphasis on new segment comparison

Changes from No Build

	No Build	Light Rail A	Light Rail B	Bus Rapid Transit	
Existing Segments		6,760	3,400		
New Segments		10,600	8,760	11,460*	
Total Change in Daily Boardings		17,360	12,160	11,460*	

Ridership gains on existing Newark LRT

Total ridership growth from no-build

* Bus Rapid Transit shares the Newark Light Rail alignment and stations from Newark Penn Station to Broad Street Station. Only new BRT-specific ridership is shown here.



2040 DAILY MODE SHIFTS / TRIP DIVERSIONS

	Light Rail A	Light Rail B	Bus Rapid Transit
Auto	5,700	3,960	3,830
Bus	8,340	5,560	5,780
NJ TRANSIT Rail	1,950	1,910	720
Other (PATH, Ferry, Light Rail)	1,370	730	1,130
Total Trip Diversions*	17,360	12,160	11,460

* Matches total new trips relative to No Build

- Auto trip diversions reflect potential to mitigate regional congestion and improve the viability of transit for trips in the corridor
- Transit trip diversions, mostly from existing bus and related (but indirect) commuter rail trips, show potential for new service to increase travel options

2040 ACCESS MODES TO STATIONS

Mode of Access to Stations	No Build	Light Rail A	Light Rail B	Bus Rapid Transit*
Transfer (Transit)	51%	41%	43%	27%
Walk	44%	46%	50%	63%
Drive	5%	13%	7%	10%

* Bus Rapid Transit shares the Newark Light Rail alignment and stations from Newark Penn Station to Broad Street Station. Only new BRT-specific ridership is shown here.

- Many stations envisioned as primarily walk-on stations (little or no parking)
- Higher walk access percentage for BRT, reflecting nature of bus mode and diversions from less competitive bus routes
- Park & ride stations (e.g., Route 46) draw from outside the corridor

CONCLUSIONS AND RECOMMENDATIONS

Market Potential Regional Benefits Concept Development

CONCLUSIONS

All three alternatives demonstrate market potential

- Reduced transit travel times and direct travel
- Links to city centers, ON3 development enhance existing transit
- Ridership potential compares well to other NJ TRANSIT services
- Demand forecast highlights local and regional benefits

Unique attributes of each warrant further consideration

Corridor connects substantial environmental justice communities to more employment, education, healthcare, and regional attractions

Auto diversions demonstrate transit's value in busy north/south corridor

RECOMMENDATIONS

Form agency/municipal coalition to preserve key right-of-way components

- Newark Industrial Track
- NJ Route 19
- Local streets in Paterson and Newark

Advance to more detailed Alternatives Analysis study

- Detailed technical study
 - Alignments
 - Station location and design
 - Service and capital plans
- Refined demand forecast modeling
- Robust public and stakeholder engagement

COMMITTEE DISCUSSION

Mode/Alignment Opportunities Local and Regional Priorities Path to Implementation

STUDY NEXT STEPS

Public Presentation (Online) Draft and Final Report

THANK YOU.

Your participation in this study and future efforts is greatly appreciated.









Technical Advisory Committee Meeting 3 – April 28, 2020 2:00 - 3:30pm





Sobers Consulting, lle