## I-285 TOP END TRANSIT FEASIBILITY STUDY

MAYORS MEETING June 25, 2020

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### PROCESS OVERVIEW

### Phase 1: 2018 Transit Feasibility Study

- Rail-based system versus rubber-wheel based system feasibility
- Evaluation of local special service districts and revenue

## Phase 2: 2019 Pre-Project Development Study

- Travel time analysis
- Ridership forecasting
- Updated project costs
- System maximization





### Top End Rapid Transit Study Area



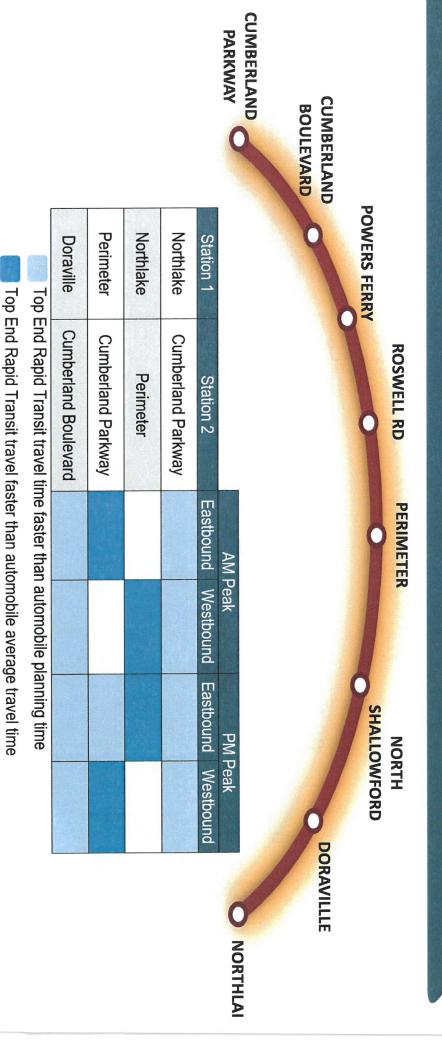
# HIGH-QUALITY TRANSIT SERVICE PLAN

Weekend/Holiday	Weekday	Weekday	Service Day
7 am – 12 am	7 pm – 12 am	6 am – 7 pm	Service Span
15	15	10	Headway (minutes)

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### **TRAVEL TIME ANALYSIS**



### RIDERSHIP FORECASTING

## Initial Weekday Ridership Boardings Forecast

5,500	2015 Build
6,600	2030 Build
7,200	2040 Build

## Secondary Weekday Ridership Boardings Forecast

8,600	2015 Build
10,400	2030 Build
11,800	2040 Build

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### RIDERSHIP FORECASTING

### Weekday Linked Transit Trip Forecasts

Measure of Effectiveness	2015 Build	2030 Build	2040 Build
Weekday Linked Transit Trips on Project	5,500	6,600	7,200
Transportation-Vulnerable	2,300	2,600	2,800
Non-Transportation-Vulnerable	3,200	4,400	4,500
Weekday Incremental Linked Transit Trips	3,600	4,700	5,200
Transportation-Vulnerable	500	600	600
Non-Transportation-Vulnerable	3,000	4,100	4,500



### STOPS MODEL LIMITATIONS

Highway Data — based on a "typical" travel day (normal, non-incident congestion)

#### **Planned Projects**

- SR 400 BRT
- Gwinnett I-85 BRT/Gold Line Extension
- Buford Highway BRT
- East Wall BRT or West Wall BRT
- Additional local service improvements including those from County Transit Plans

#### **MARTA Red Line Connection Distance**

#### **Special Markets**

- Special Events (Truist Park, The Battery, colleges & universities)
- Airport trips





#### SYSTEMS – WEEKDAY BOARDINGS COMPARABLE NORTH AMERICAN

Boston- Silver Line 4&5:

16,000

Cleveland- Health Line:

15,000

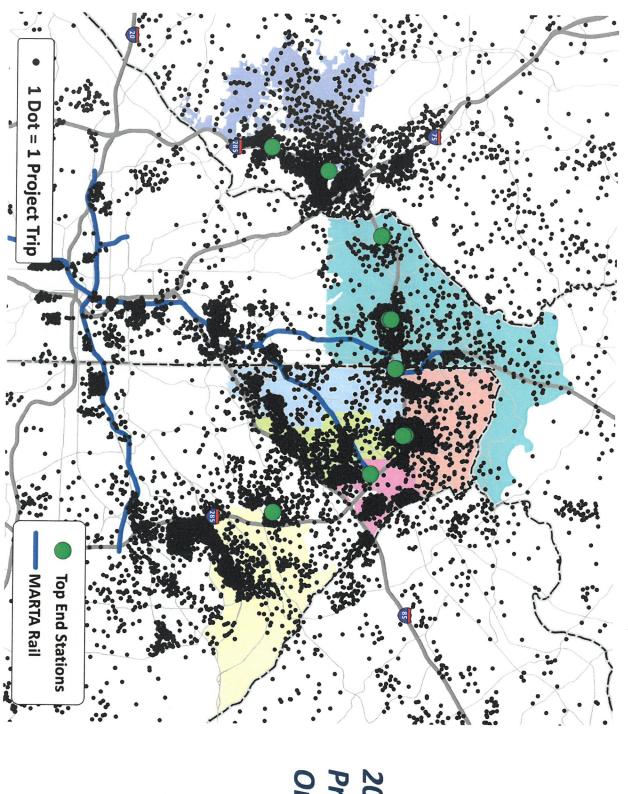
Salt Lake City- Utah Valley Express:

14,600

Richmond, VA- Pulse:

7,000



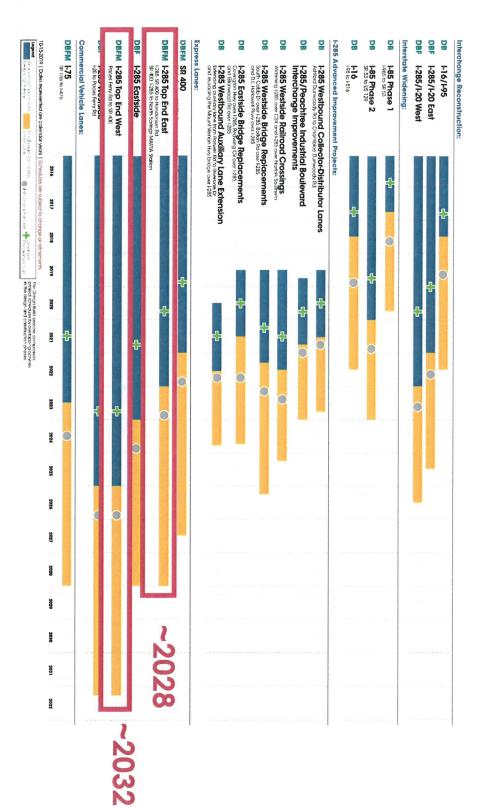


2040 Build – Project Trip Origins

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#### **MMIP Schedule**



#### SUMMARY OF **UPDATED PROJECT COSTS**

### **Estimated Station Capital Costs by Phase**

Total \$169M - \$194M	Cumberland Pkwy -	Cumberland Blvd -	Roswell Road -	Perimeter \$13M	N Shallowford \$16M	Doraville <sup>2</sup> \$130M	Northlake <sup>1</sup> \$10M - \$35M	Station Phase 1 (East)
\$155M	\$22M	\$3M	\$130M	1	1	ı	_	st) Phase 2 (West)
\$324 - \$349	\$22M	\$3M	\$130M	\$13M	\$16M	\$130M	\$10M - \$35M	Total

### SUMMARY OF UPDATED PROJECT COSTS

#### **Estimated Operating Costs**

\$7,100,000	47,000	1,328,300	Full System
\$3,400,000	20,400	663,000	Phase 2 (West)
\$3,700,000	26,600	665,300	Phase 1 (East)
Annual Cost <sup>1</sup>	Annual Revenue Hours	Annual Revenue Miles	Service

<sup>1—</sup> Reflects a blend of cost per service mile and cost per revenue mile for bus operations and station operating costs for Type A/Type B

### Estimated Vehicle Capital Costs by Phase

Full System	Phase 2 (West)	Phase 1 (East)	Service
\$11,000,000	\$5,000,000	\$6,000,000	Vehicle Costs

### SYSTEM MAXIMIZATION

- Transit-supportive land use policies
- Transit network connectivity
- Improved walkability



#### CONCLUSIONS

- days and superior travel times on days with traffic incidents High capacity transit on the Top End has competitive travel times on non-incident trav
- Forecasted ridership is strong and can be significantly enhanced through additional connections, improved walkability, and transit supportive measures
- Next steps will need to resolve connectivity to the MARTA Red Line (Perimeter Area Stations at Dunwoody and/or Medical Center)
- east and west The updated GDOT Express Lane schedule necessitates two phases of implementation
- Updated cost projections estimate each phase to be under \$200M in station capital





### **NEXT STEPS/PHASE 3**

- Project sponsorship/partnership with ATL
- Preliminary station plans and project development
- Project messaging and communication materials
- Funding refinement and draft legislation



