

Gwinnett County Transit Review Committee

11/13/19



Today's Agenda

- Call to Order and Opening Remarks
- Adoption of Agenda and Approval of Minutes
- Old Business
- New Business
 - Potential Transit Scenarios
- Public Comment
- Adjourn



Adoption of Agenda



Approval of Minutes



Old Business



New Business



Overview of Rail Options



Rail Mode Options

- Heavy Rail
 - High speed, electric rail cars
 - Operates in multi-car trains on fixed rails
 - Requires fully-separated rightof-way
 - Can accommodate high levels
 of ridership





Rail Mode Options

- Light Rail
 - Operates in designated right-ofway, but does not need to be grade-separated
 - Less intense right-of-way demands; can fit in roadway medians and match curves of most roads
 - Commonly implemented with more frequent stations than heavy rail





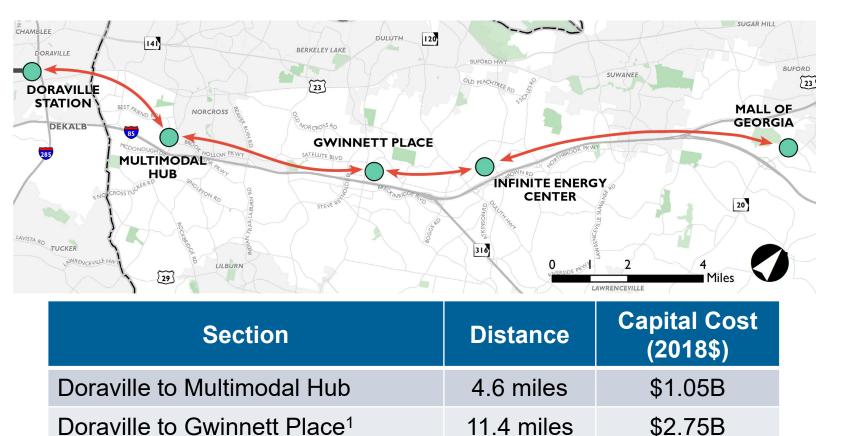
Rail Mode Alignment Assumptions



- Light Rail generally proposed along arterials to optimize cost efficiency
- Heavy Rail within utility and I-85 corridors where feasible to limit curves and land use impacts







14.4 miles

22.9 miles

\$3.47B

\$5.41B

\$237M

Costs are estimates based on limited concept development

Cost per Mile¹

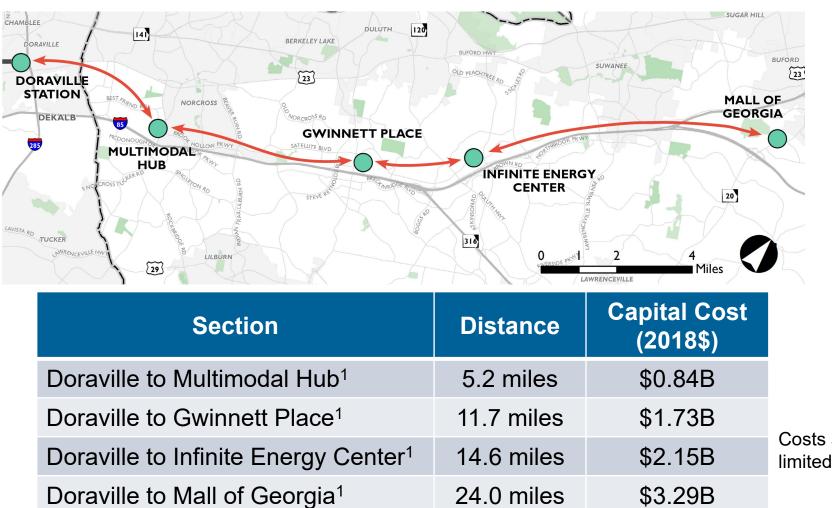
Doraville to Mall of Georgia¹

1-Includes cost of Operating and Maintenance Facility

Doraville to Infinite Energy Center¹







Costs are estimates based on limited concept development

\$137M

1-Includes cost of Operating and Maintenance Facility

Cost per Mile¹



No Rail

- Instead of rail into Gwinnett County, provide expanded bus network
- Frees up funds for a combination of bus priority treatments, higher frequencies, more coverage, and longer spans of service relative to scenarios with rail included
- Added costs:
 - To reroute proposed network to Doraville, annual bus O&M costs would increase by \$7.4M
 - Provision of BRT treatments between Doraville and OFS and capital improvements at Doraville to accommodate added bus service (additional \$70M-\$110M)
- Savings (relative to service to OFS):
 - \$11.1M in annual rail O&M
 - \$1.05B in rail capital costs



Overview of Funding Options



Funding Scenarios

Funding Scenario	30-Year Revenue Total (\$Billions, 2019)	
1¢	\$5.53B	
0.75¢	\$4.14B	
0.5¢	\$2.76B	



Discussion of Potential Scenarios



Options That Are Not Financially Feasible

- HRT to Mall of Georgia (All funding scenarios)
 - Utilizes all full-penny revenues for capital, no funds left for operations & maintenance of rail or other transit services
- LRT to Mall of Georgia (0.5¢)
 - Not enough revenue in 0.5¢ scenario to cover capital costs
- HRT to Gwinnett Place or Infinite Energy (0.5¢)
 - Costs of HRT extensions to these locations exceed available revenues

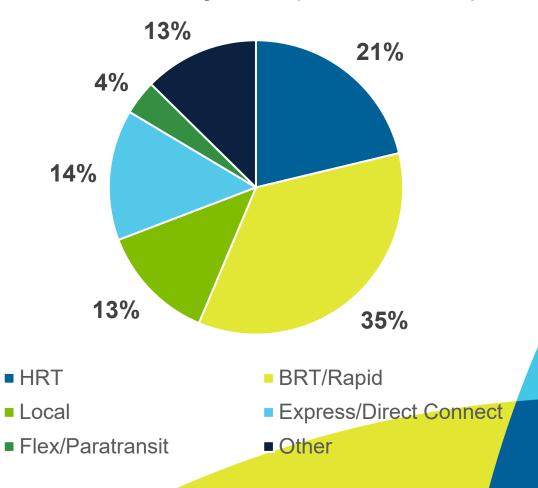


Baseline – Connect Gwinnett

• 1¢, HRT to OFS

Mode/Project	Total Cost (Cap + Op, in 2018\$ M)	% of Total
HRT	\$1,416.6	21%
BRT/Rapid	\$2,336.8	35%
Local	\$856.8	13%
Express/Direct Connect	\$957.0	14%
Flex/Paratransit	\$253.4	4%
Transit Facilities	\$108.3	2%
Technology/TSP	\$115.9	2%
Regional Projects	\$50.0	1%
TNC/Vanpool	\$25.8	0%
Fixed Operating	\$540.9	8%
Total	\$6,660.6	100%

Scenario Costs by Mode (\$Millions, 2018)





Example Scenario Assumptions

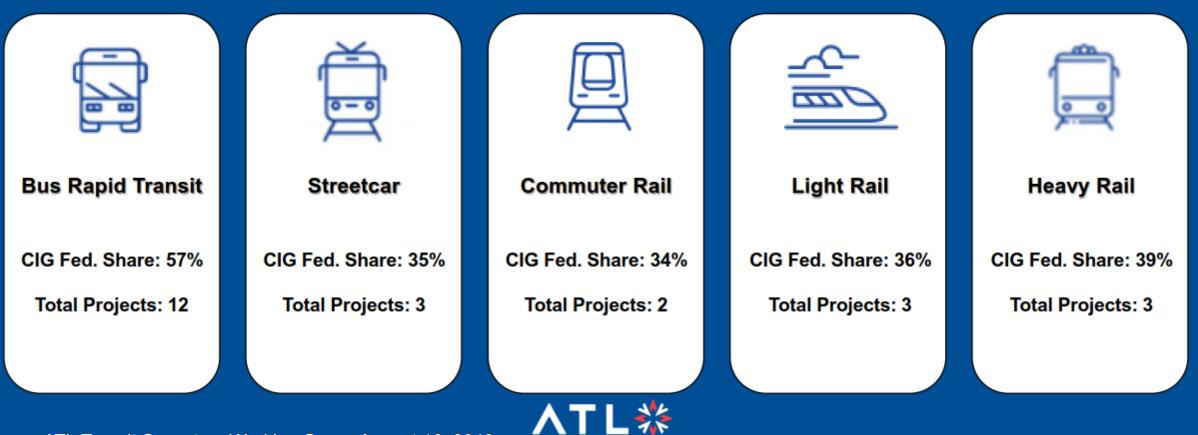
- Costing assumptions used in the development of original Connect Gwinnett were maintained
 - Regional contribution amount
 - Federal share of capital costs
 - Base year for costing
- GCT hourly operating rates for non-rail modes
- Total capital and operating/maintenance cost varies based on federal share assumptions and funding scenario
 - Federal capital grants are competitive and funding not guaranteed



FTA CIG PROGRAM FUNDING - MODAL BREAKDOWN

Average federal funding levels across all modes are at 37.53% for new transit projects

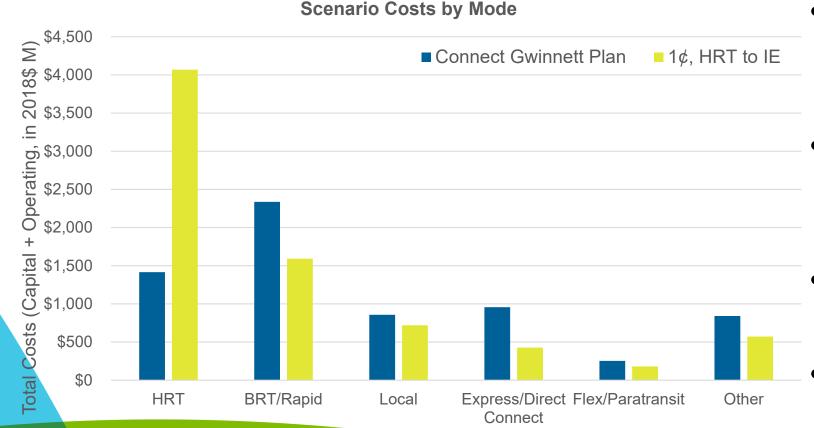
Total of 13 FFGAs and additional 8 projects with anticipated agreements (21 total projects)



Source: ATL Transit Operators Working Group August 16, 2019



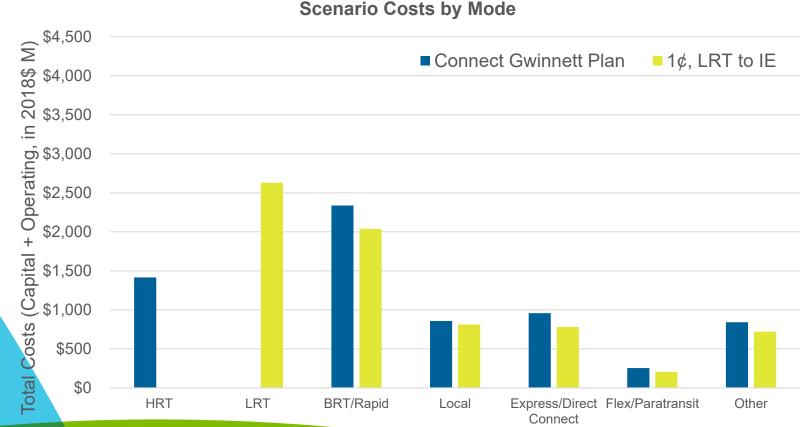
Example Scenario 1 - 1¢, HRT to Infinite Energy



- Eliminate multiple BRT/Rapid improvements
- Eliminate multiple Direct Connect/ Express routes
- Some reduction in Local/Rapid frequency
- Delay construction of HRT



Example Scenario 2 - 1¢, LRT to Infinite Energy



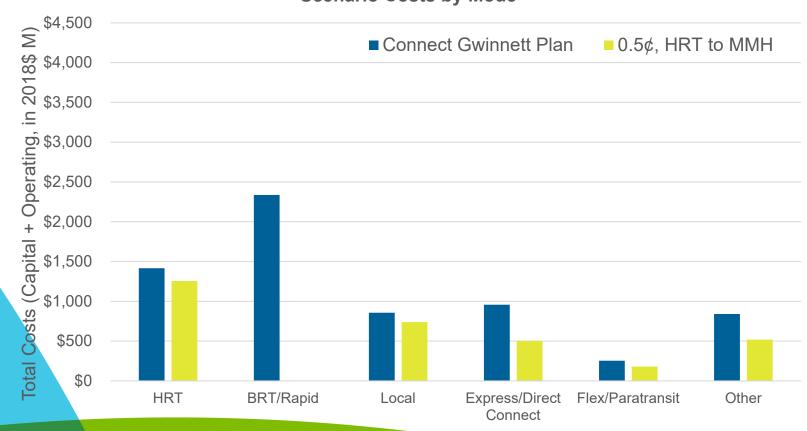
- Eliminate multiple Rapid improvements (no impact to BRT)
- Eliminate multiple Express routes (no impact to Direct Connect)
- Some reduction in Local/Rapid frequency



Example Scenario 3

- 0.5¢, HRT to Multimodal Hub

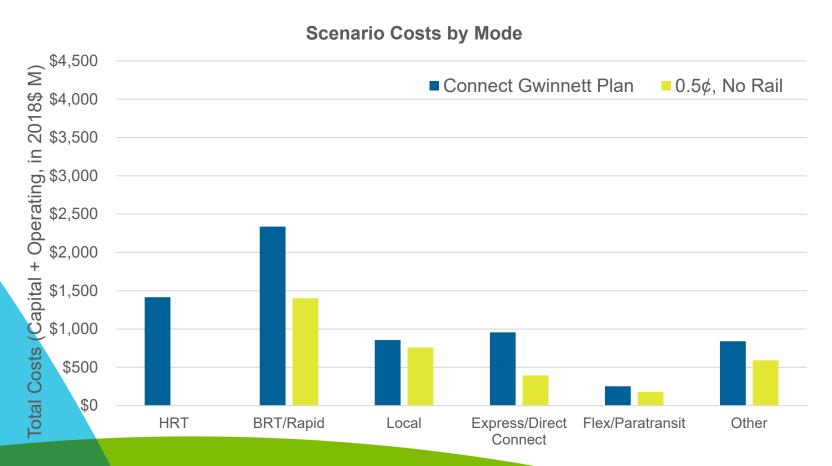
Scenario Costs by Mode



- Eliminate all BRT and Rapid improvements
- Eliminate multiple Direct Connect/ Express routes
- Some reduction in Local/Rapid frequency
- Delay construction of HRT



Example Scenario 4 - 0.5¢, No Rail



- Eliminate multiple BRT/Rapid improvements
- Eliminate multiple Express/Direct Connect routes
- Some reduction in Local/Rapid frequency
- Delayed implementation of full plan



Example Scenario Takeaways

- Extending HRT past OFS would require removal of multiple BRT/Rapid/Express routes
- If desired to extend rail past OFS, replacing HRT with LRT would reduce impact to other elements of plan, but would require transfer at Doraville
- Reducing revenue amount makes it difficult to preserve rail and maintain many other elements of plan



Discussion

- What do you like about the example scenarios?
- What don't you like about the example scenarios?
- When considering scenario tradeoffs, what must remain regardless of the scenario changes?
- What scenarios should we evaluate moving forward?



Work Overview and Meetings

- October 8 Organizational Meeting
- October 19 General Transit Planning Workshop
- October 24 The ATL and Atlanta Regional Commission (ARC)
- October 30 Connect Gwinnett: Transit Plan
- Nov 9 Connect Gwinnett: Transit Plan Deep Dive, Community Input Leading up to and Since The Referendum, and Stakeholder Session
- Nov 13 Potential Transit Scenarios
- Nov 20, Dec 2, and Dec 9 Transit Scenario Analysis



Public Comment



Adjourn