

I-20 East Transit Initiative

Stakeholder Advisory Committee Meeting May 9th & May 12th, 2011

Monday, May 9th

4:00 – 6:00 PM South DeKalb Mall Community Room 2801 Candler Road Decatur, GA 30034

Thursday, May 12

6:00 – 8:00 PM DeKalb Medical Center Hillandale Community Room 2801 Medical Pkwy Lithonia, GA 30058



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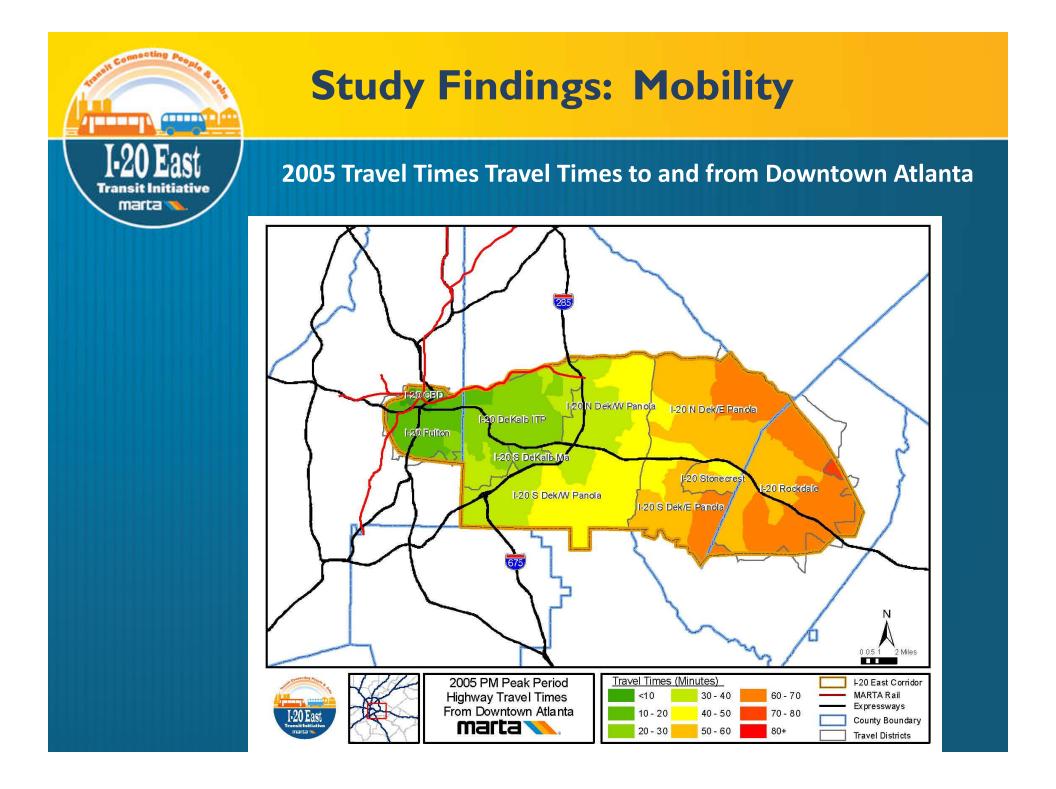
Study Schedule

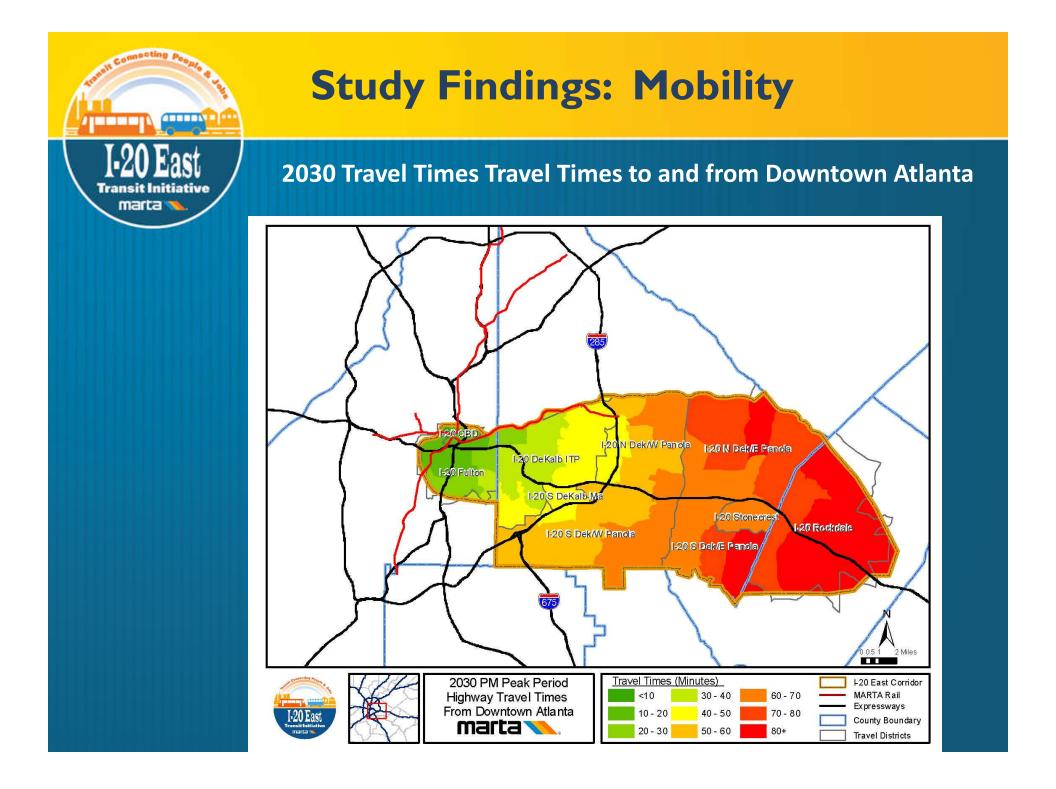


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		2010				011		2012	
Public Outreach/Involvement	JFMAM	JJAS	SOND	JFMA			SON	DJFMAMJ	
Stakeholder Interviews	-		•			<u> </u>			•
Stakeholder Advisory Committee Meetings			0 0		5		•	•	
Technical Advisory Committee Meetings			• •		$\overline{\mathbf{v}}$	6	0	•	
General Public Meetings			*		*				
Data Collection/Baseline Conditions Assessment	_								•
Confirmation of Purpose & Need									
Development of Goals and Evaluation Framework			•						
Identification/Confirmation of Study Alternatives			•						
Evaluation of Study Alternatives									
Selection of Locally Preferred Alternative (LPA)									
Concept Engineering and Evaluation For LPA									
Environmental Data Collection/Existing Conditions									
Issuance of Notice of Intent to Prepare DEIS							♦		
Project Scoping Meetings (Agency & Public)							*		
Evaluation of DEIS Alternatives									
DEIS Preparation									
DEIS Public Hearing								*	

Detailed Corridor Analysis

Draft Environmental Impact Statement







Evaluation of Transit Alternatives

Tier 1 Screening

- Evaluation of all stakeholder identified alignment alternatives including
 - Downtown Connectivity Alternatives
 - Panola Road Area Alternatives
 - Mainline Alignment Alternatives
- Transit technology not evaluated in Tier 1 screening



- <u>Ridership</u> How many people will ride each alternative
- <u>Travel times</u> How long does it take to ride from Mall at Stonecrest to downtown Atlanta
- <u>Cost</u> What is the total cost of each alternative
- <u>Community Input</u> Does the community support the alternative



Evaluation of Transit Alternatives

Tier 2 Screening

- Evaluation of best performing alignment alternatives from Tier 1 screening
- Includes evaluation of transit technologies
 - Bus Rapid Transit (BRT)
 - Light Rail Transit (LRT)
 - Heavy Rail Transit (HRT)
- Evaluation of all potential station locations
- The result of the Tier 2 evaluation will be the Locally Preferred Alternative (LPA)

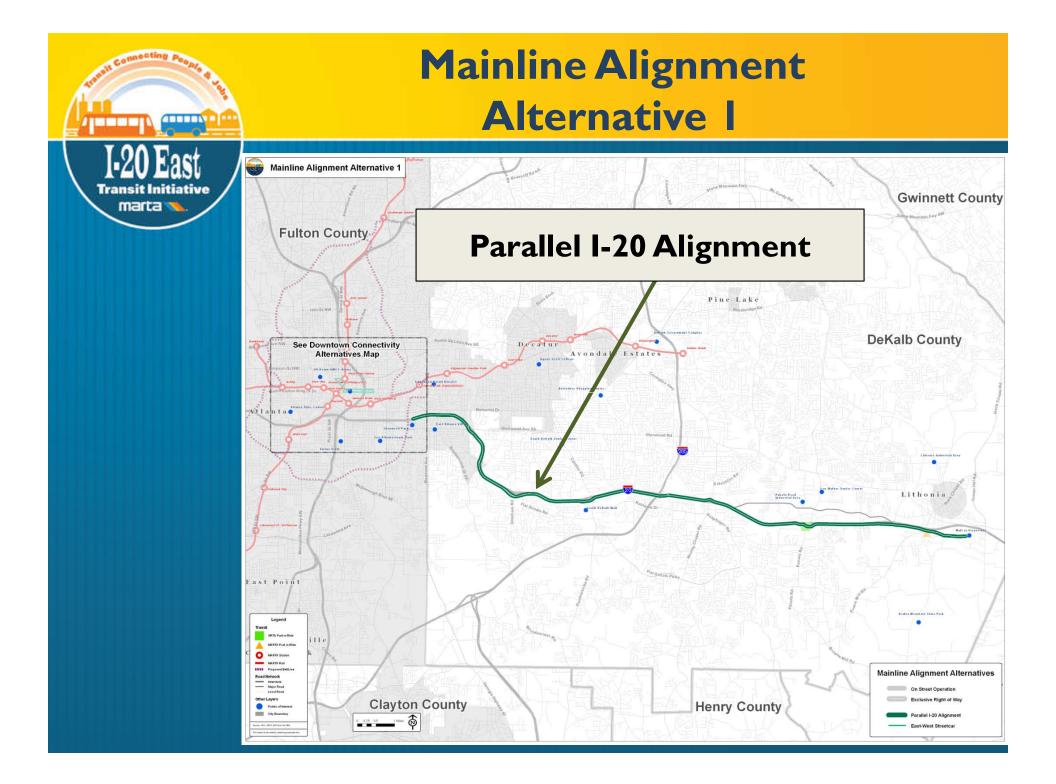


- Mainline Alignment Alternatives
- Downtown Connectivity Alternatives
- Panola Road Area Alternatives



Mainline Alignment Alternatives

- Three mainline alignment alternatives were identified to provide rapid transit service between Mall at Stonecrest and downtown Atlanta:
 - 1. Parallel I-20 alignment from Mall at Stonecrest to downtown Atlanta
 - 2. Connection to MARTA Edgewood Station
 - 3. Extension of heavy rail from Indian Creek Station to Mall at Stonecrest





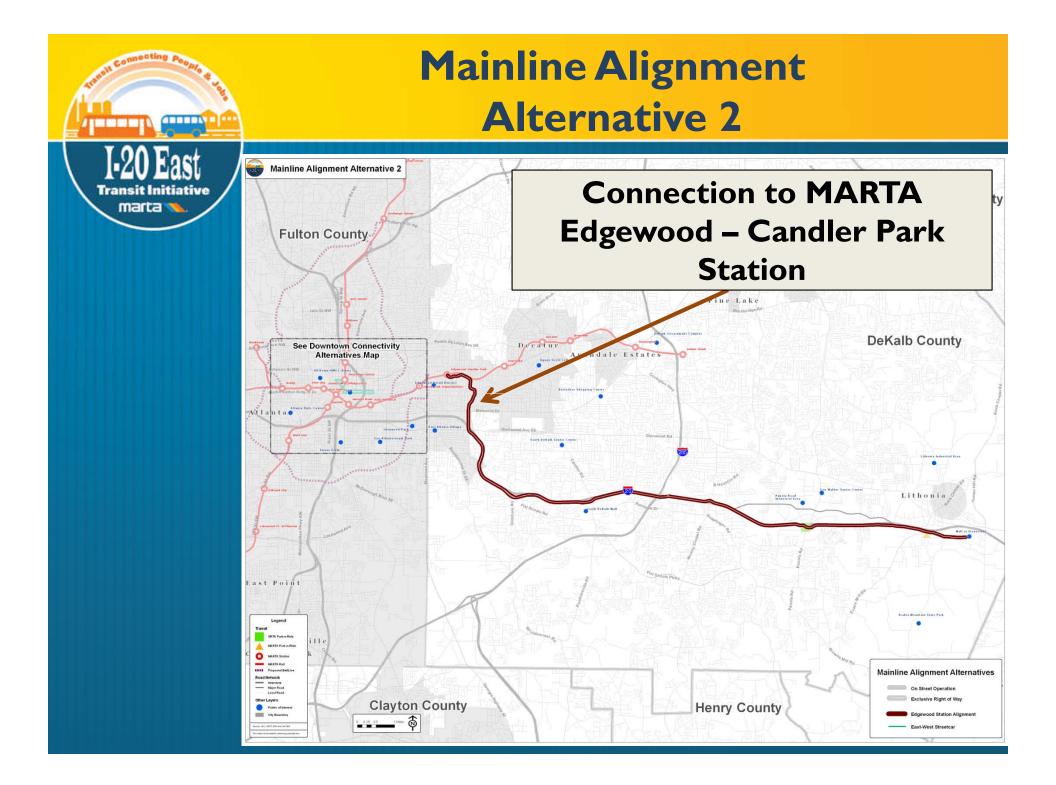
Mainline Alignment Alternative I

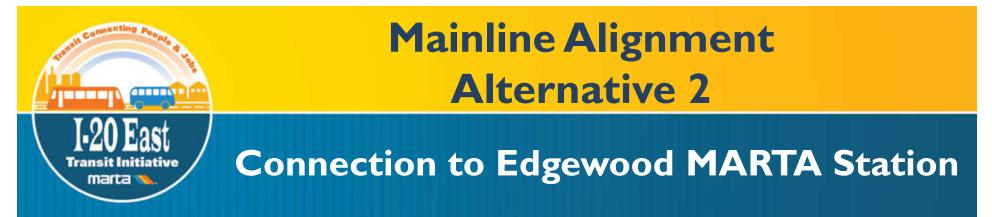
Parallel I-20 Alignment

Potential Advantages

• Serves areas along I-20 inside I-285 including South DeKalb Mall/Candler Road, Gresham Road/Flat Shoals Road, East Atlanta Village, and Glenwood Park

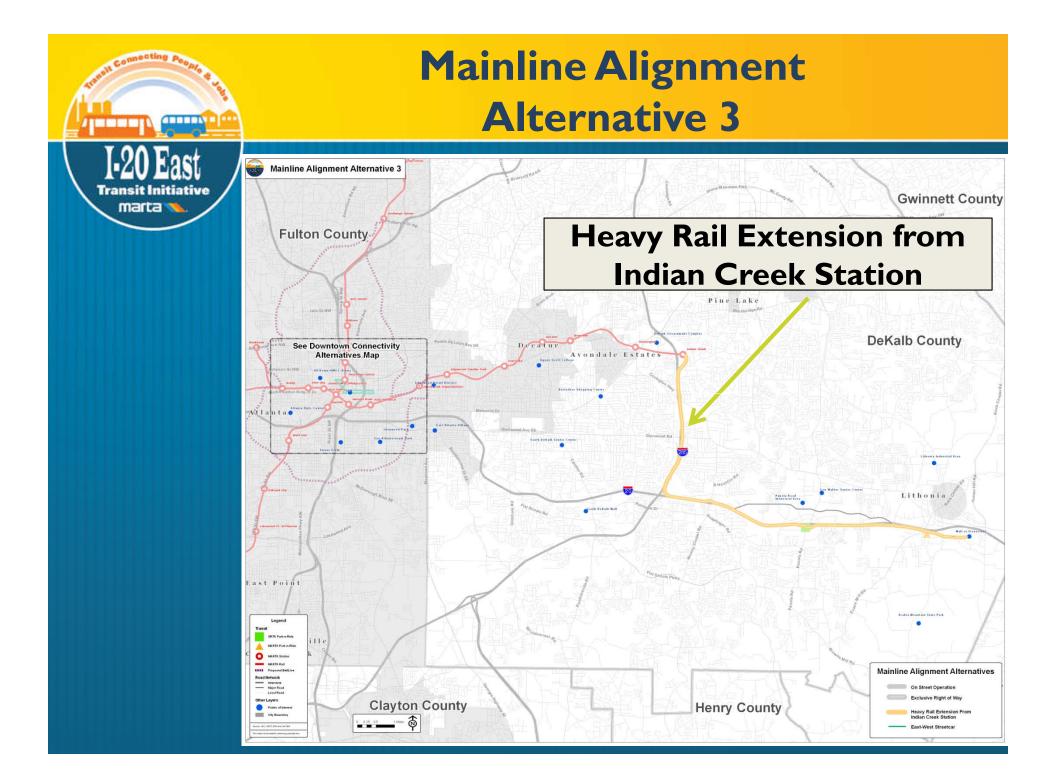
- Initial construction phase would likely extend from downtown Atlanta to South DeKalb Mall, not serving areas outside I-285
- Significant engineering and environmental constraints associated with connection into downtown Atlanta
- Higher total costs associated with implementation of 18+ miles of new transit line
- Potential for significant impacts to historic districts inside I-285
- Potential for higher number of commercial and residential displacements
- Associated capital costs resulting from a potential new transit technology, such as Light Rail Transit (LRT) or Bus Rapid Transit (BRT)





- Serves areas along I-20 inside I-285 including the Kirkwood neighborhood, South DeKalb Mall/Candler Road and Gresham Road/Flat Shoals Road
- Avoids engineering and cost issues associated with connecting directly into downtown

- Significant community and environmental impacts associated with connection through Edgewood and Kirkwood neighborhoods
- Potential for significant impacts to historic districts
- May require tunneling to avoid impacts to communities and historic resources
- Associated capital costs resulting from a potential new transit technology, such as Light Rail Transit (LRT) or Bus Rapid Transit (BRT)





Mainline Alignment Alternative 3

Heavy Rail Extension from Indian Creek Station

Potential Advantages

- Initial construction phase would extend MARTA rail from Indian Creek Station to Wesley Chapel Road, thus providing rapid transit service to areas outside I-285
- Lower total costs associated with implementation of 12+ miles of new transit line
- Cost savings associated with the use of existing heavy rail vehicles and maintenance facilities

- Would not serve areas along I-20 inside I-285 including South DeKalb Mall/Candler Road, Gresham Road/Flat Shoals Road, East Atlanta Village, and Glenwood Park
- Potential for longer travel times to downtown Atlanta due to numerous stations along East-West line



Mainline Alignment Alternatives

Preliminary Evaluation Results

Ridership

Total Boardings •

 Alternative 1 (Connection to Downtown): 	26,976 Boardings		
 Alternative 2 (Connection to Edgewood Station): 	11,541 Boardings		
 Alternative 3 (Extension of E-W Line): 	11,684 Boardings		
New Transit Riders			
 Alternative 1 (Connection to Downtown): 	6,553		
 Alternative 2 (Connection to Edgewood Station): 	2,795		
 Alternative 3 (Extension of E-W Line): 	5,782		



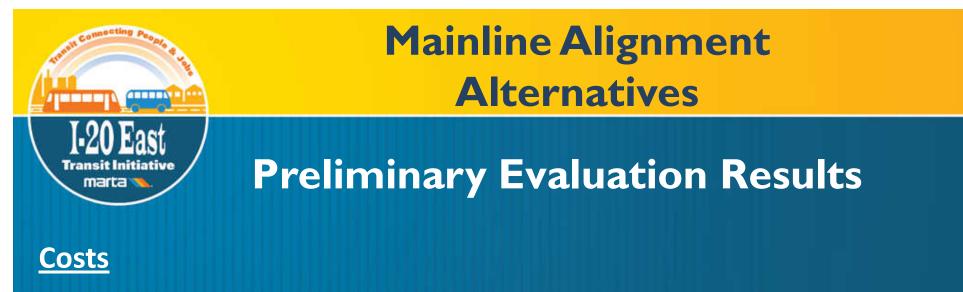
Mainline Alignment Alternatives

Preliminary Evaluation Results

Travel Times (2030)

• Mall at Stonecrest to MARTA Five Points Station

 Existing Transit Service: 	74.4 minutes				
 Alternative 1 (Connection to Downtown): 	37.2 minutes				
 Alternative 2 (Connection to Edgewood Station): 	42.1 minutes				
 Alternative 3 (Extension of E-W Line): 	42.7 minutes				
Mall at Stonecrest to MARTA Arts Center Station					
 Existing Transit Service 	82.9 minutes				
 Alternative 1 (Connection to Downtown): 	45.9 minutes				
 Alternative 2 (Connection to Edgewood Station): 	50.6 minutes				
 Alternative 3 (Extension of E-W Line): 	51.2 minutes				



• Pending

Community Support

- Alternative 1 (Connection to Downtown):
- Alternative 2 (Connection to Edgewood Station):
- Alternative 3 (Extension of E-W Line):

28.6% of 35 public votes57.1% of 35 public votes14.3% of 35 public votes



Keypad Voting Exercise

- You will use this keypad to select your response
- The last number you press will be recorded
- You cannot vote multiple times
- These are not magic remotes they will not work on anything else... Please leave here – Thank you!!





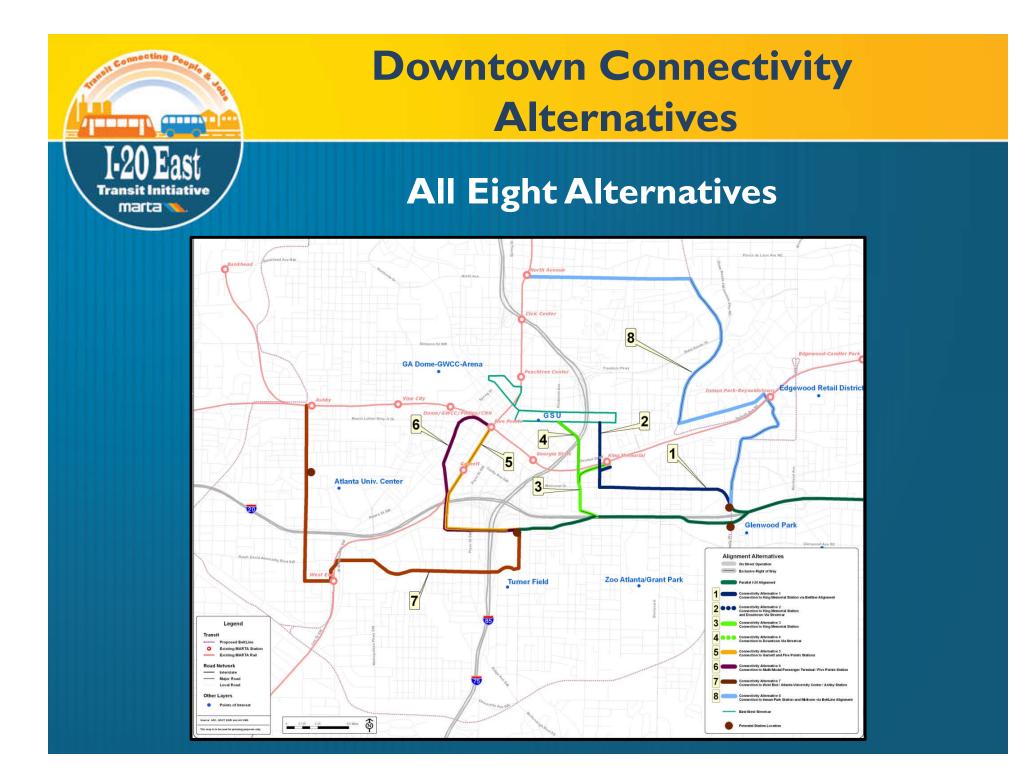
I. Parallel I-20 Alignment

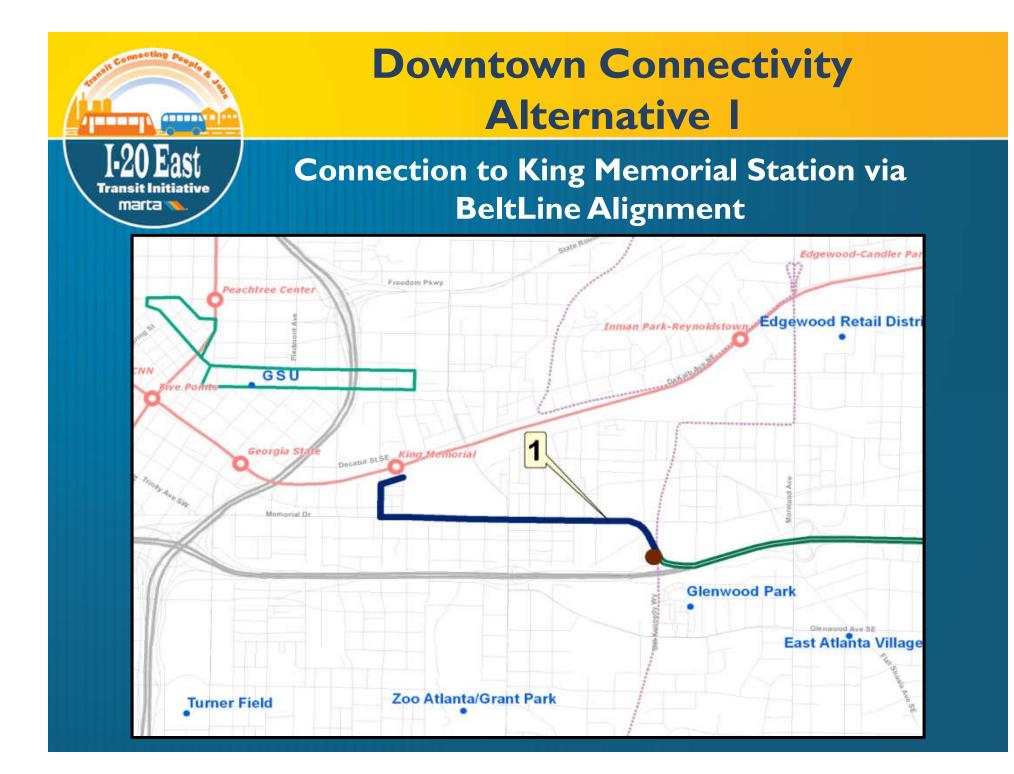
2. Connection to Edgewood MARTA Station

3. Heavy Rail Extension from Indian Creek Station



- What is the most effective way to connect into downtown Atlanta and the MARTA rail system?
- Project Stakeholders have identified 8 Downtown Connectivity Alternatives







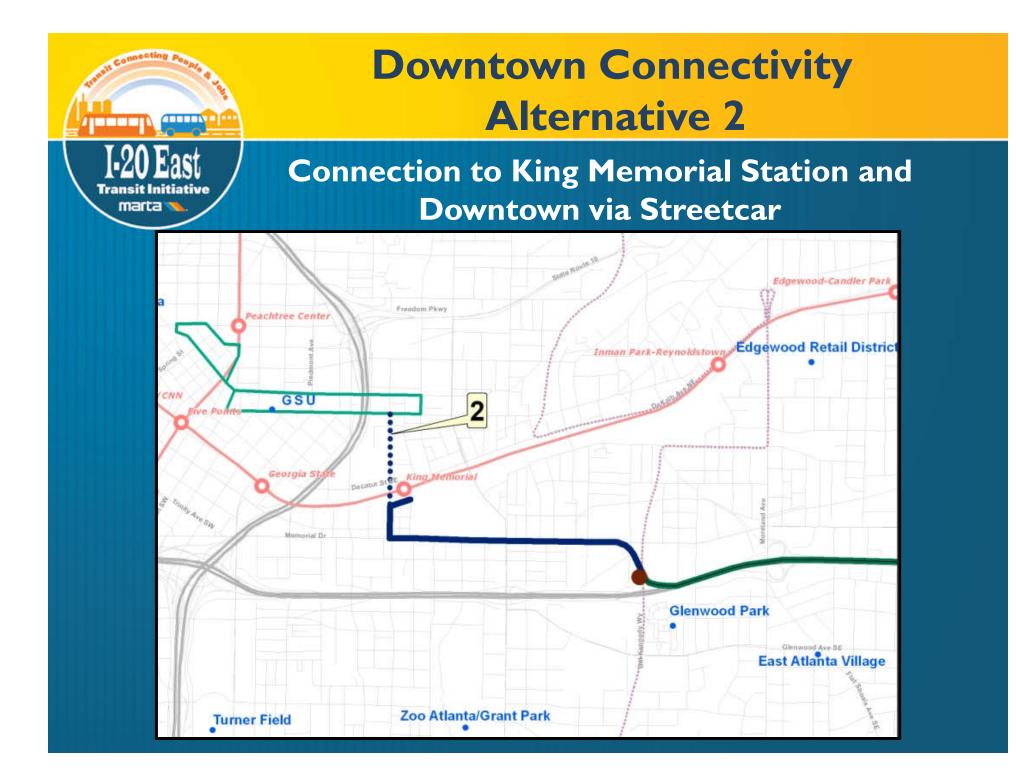
Downtown Connectivity Alternative I

Connection to King Memorial Station via BeltLine Alignment

Potential Advantages

- Lower costs due to on-street operation
- Lower costs due to limited elevated structures
- Shorter travel distance to MARTA East-West rail line

- Potential for delay due to congestion on surface streets
- No direct access to MARTA North-South rail line





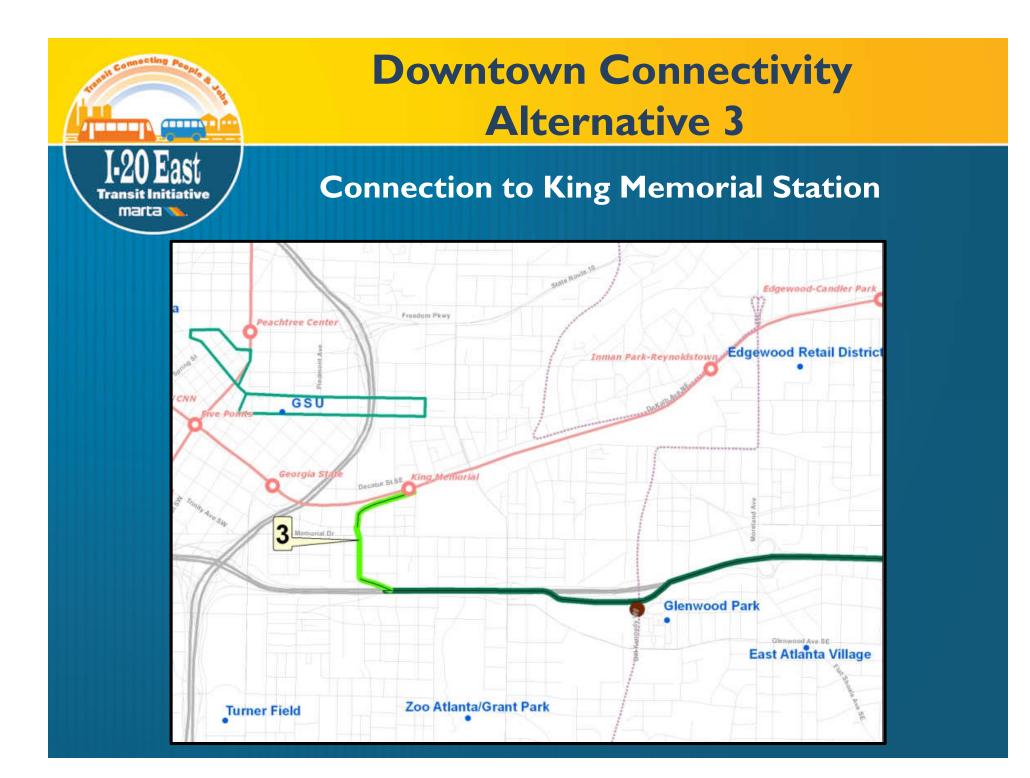
Downtown Connectivity Alternative 2

Connection to King Memorial Station and Downtown via Streetcar

Potential Advantages

- Lower costs due to on-street operation
- Lower costs due to limited elevated structures
- Serves major points of interest along the Streetcar alignment
- Shorter travel distance to MARTA East-West rail line
- Connection to MARTA North-South and East-West rail lines

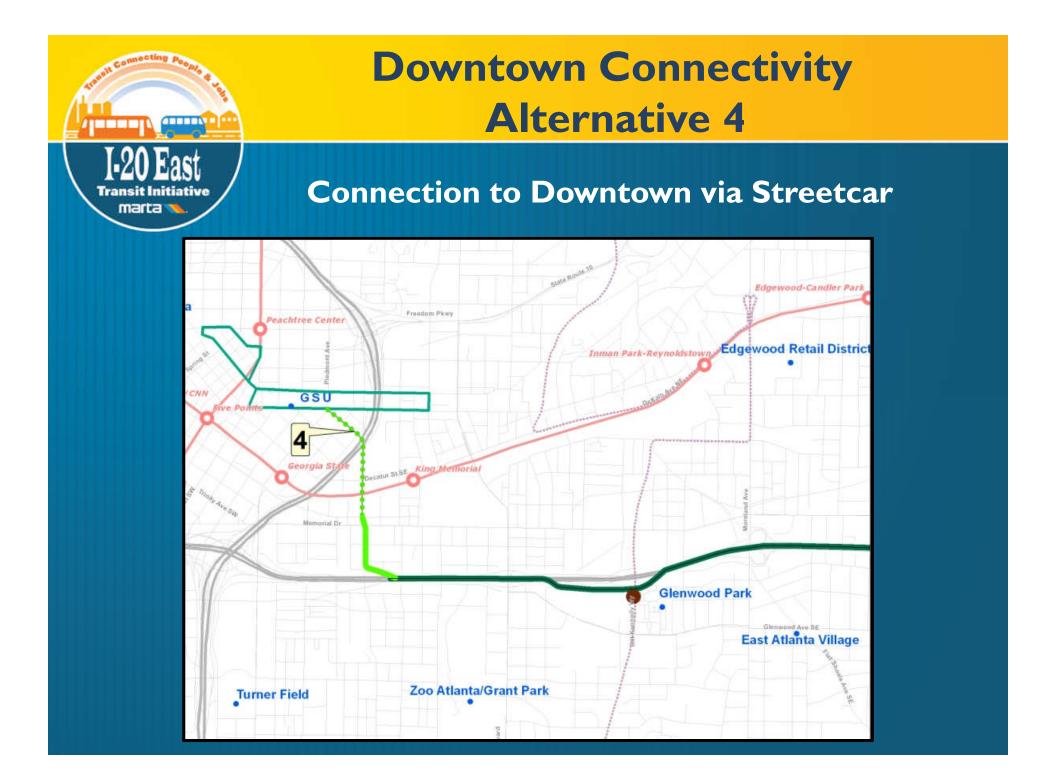
- Potential for delay due to congestion on surface streets
- Longer travel times to MARTA North-South rail line via Streetcar alignment

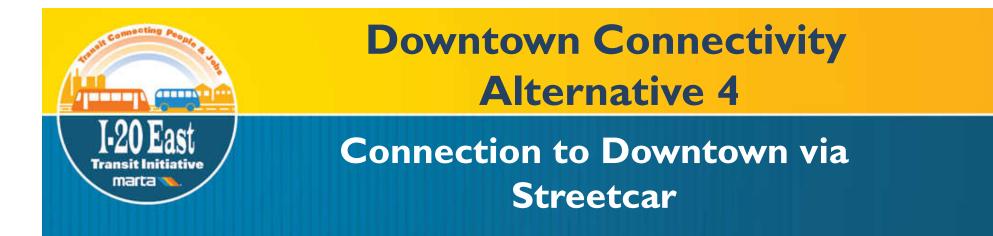




- Moderate costs due to elevated structures along I-20
- Shorter travel distance to MARTA East-West rail line
- Faster access to existing MARTA rail system

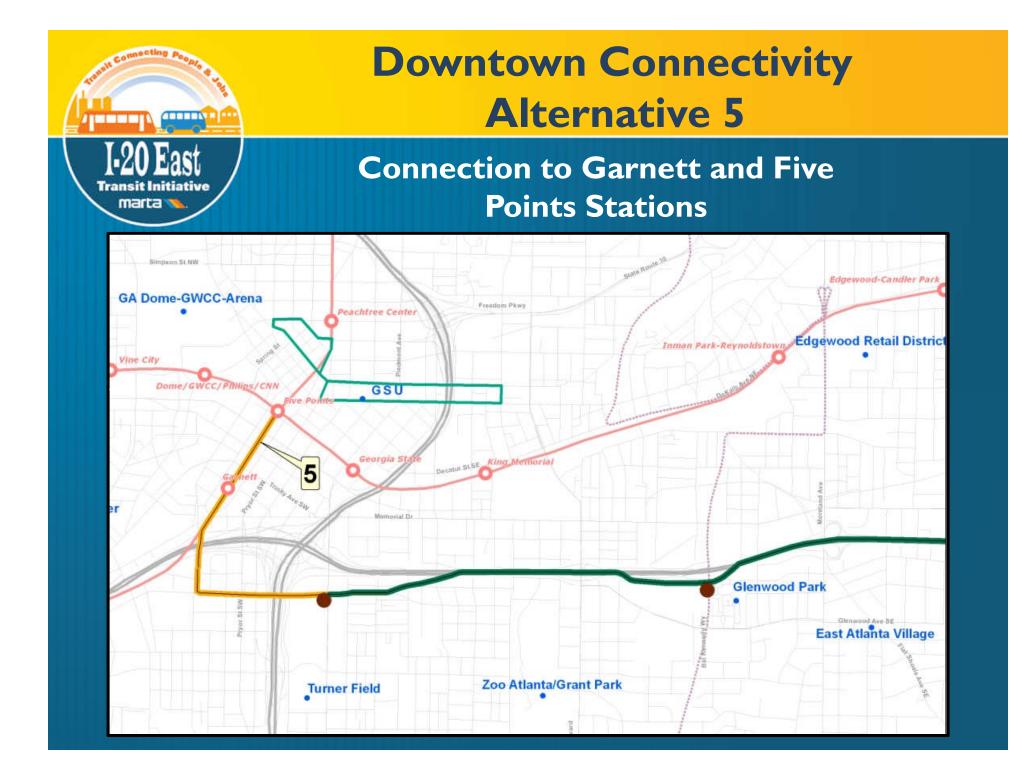
- Potential for delay due to congestion on surface streets
- No direct access to MARTA North-South rail line

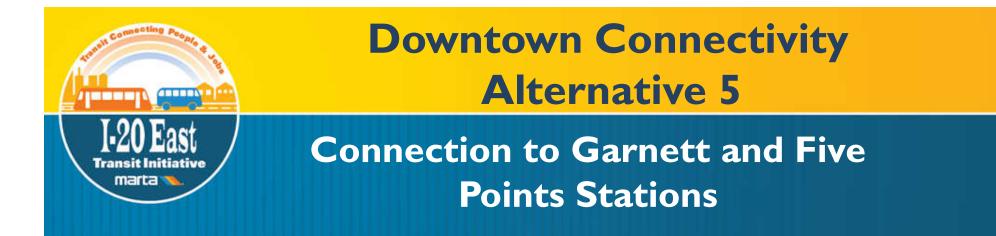




- Moderate costs due to elevated structures along I-20
- Serves major points of interest along the Streetcar alignment

- No direct access to MARTA East-West rail line
- Potential for delay due to congestion on surface streets
- Longer travel times to access MARTA North-South rail line via Streetcar alignment

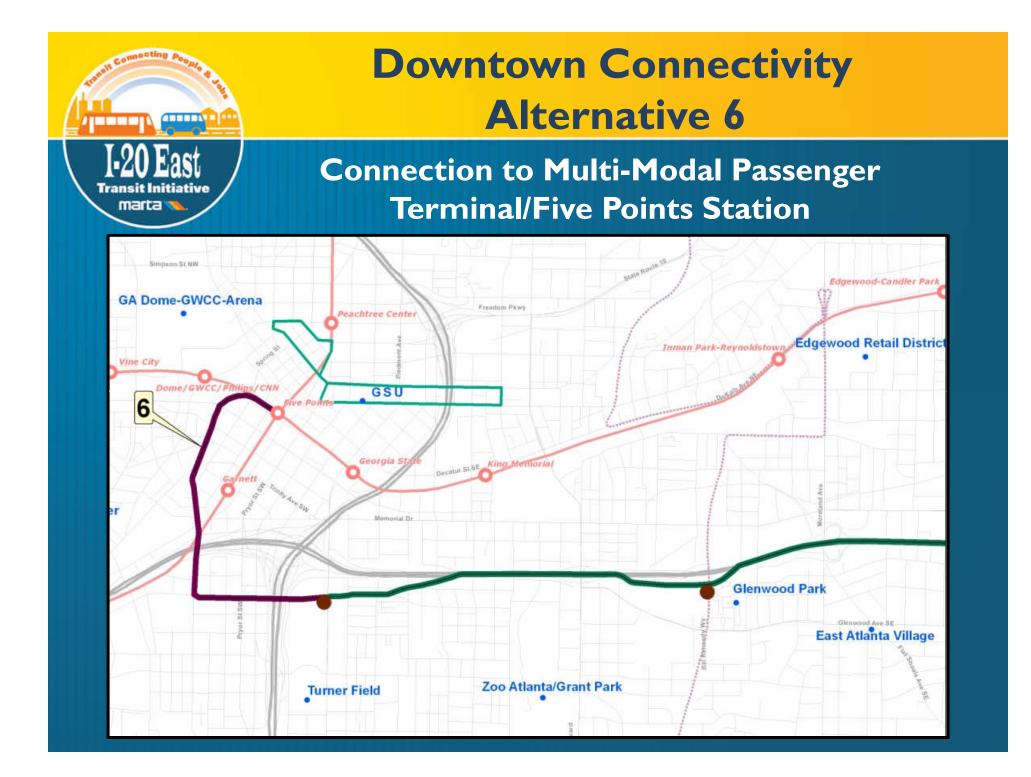




- Direct connection to MARTA North-South and East-West rail lines
- Reliable travel times due to no on-street operation
- Potential Station at Turner Field

Potential Disadvantages

 Higher costs associated with significant elevated structure through downtown





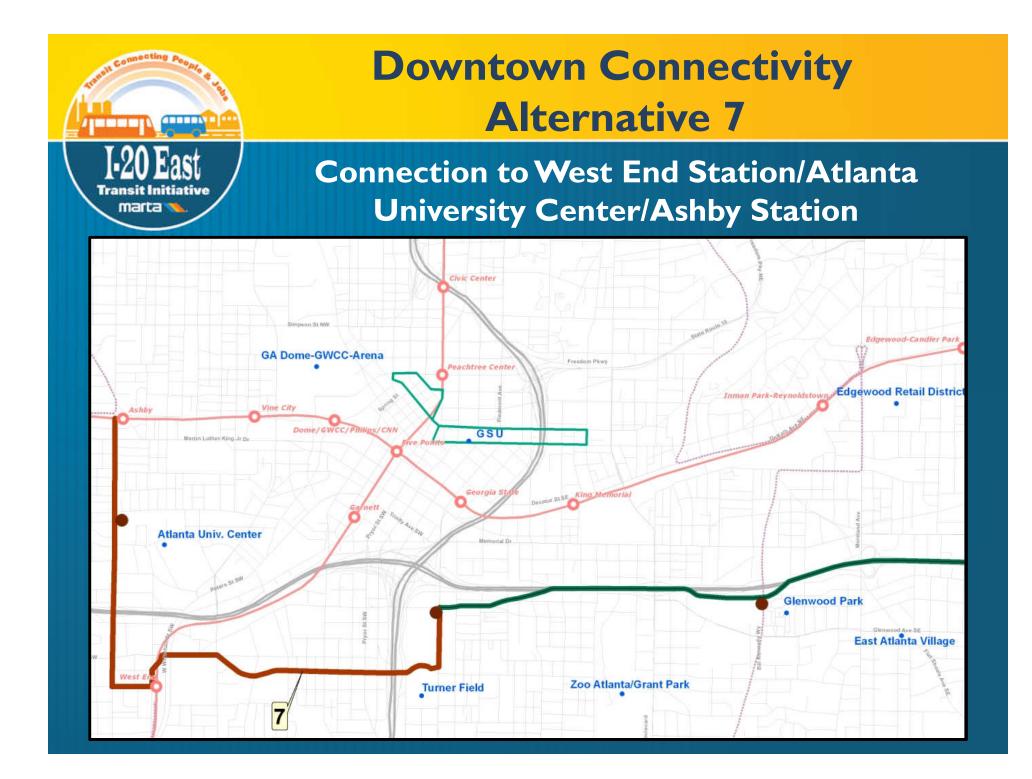
Downtown Connectivity Alternative 6

Connection to Multi-Modal Passenger Terminal/Five Points Station

Potential Advantages

- Direct connection to potential Multi-Modal Passenger Terminal
- Direct connection to MARTA North-South and East-West rail lines
- Potential Station at Turner Field

- Higher costs associated with extensive elevated structure through downtown
- Potential for delay due to congestion on surface streets





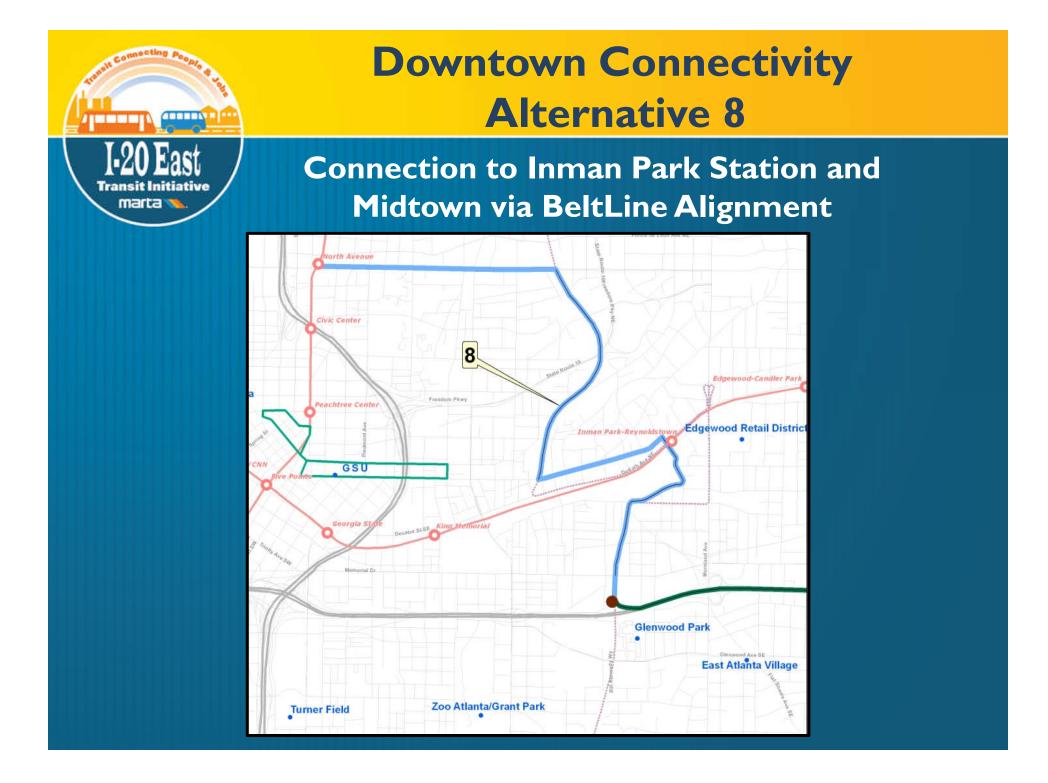
Downtown Connectivity Alternative 7

Connection to West End Station/Atlanta University Center/Ashby Station

Potential Advantages

- Connection to Atlanta University Center
- Connection to MARTA North-South and East-West rail lines
- Potential Station at Turner Field

- Potential for delay due to congestion on surface streets
- Longer travel times to access MARTA North-South and East-West rail lines





Connection to Inman Park Station and Midtown via BeltLine Alignment

Potential Advantages

- Lower costs due to on-street operation and use of Beltline rightof-way
- Connection to points of interest along the Beltline alignment
- Shorter travel distance to MARTA East-West rail line

Potential Disadvantages

- Potential for delay due to congestion on surface streets
- Longer travel times to access the MARTA North-South rail line



Preliminary Evaluation Results

<u>Ridership</u>

• Total Boardings

- Alternative 1: 11,425 Boardings
- Alternative 2:
- Alternative 3:
- Alternative 4:
- Alternative 5:
- Alternative 6:
- Alternative 7:
- Alternative 8:

- 15,119 Boardings
- 13,821 Boardings
 - 12,592 Boardings
 - 26,976 Boardings
 - 23,169 Boardings
 - 17,034 Boardings
 - 16,249 Boardings



Preliminary Evaluation Results

Ridership

• New Transit Riders

Alternative 1 :	2,820
Alternative 2:	3,251
Alternative 3:	3,279
Alternative 4:	2,775
Alternative 5:	6,553
Alternative 5: Alternative 6:	6,553 5,330



Preliminary Evaluation Results

Travel Times (2030)

Mall at Stonecrest to MARTA Five Points Station

- Existing Transit Service:
- Alternative 1:
- Alternative 2:
- Alternative 3:
- Alternative 4:
- Alternative 5:
- Alternative 6:
- Alternative 7:
- Alternative 8:

74.4 minutes
47.1 minutes
47.1 minutes
41.8 minutes
52.0 minutes **37.2 minutes**40.4 minutes
48.1 minutes
45.0 minutes



Preliminary Evaluation Results

Travel Times (2030)

Mall at Stonecrest to MARTA Arts Center Station

- Existing Transit Service:
- Alternative 1:
- Alternative 2:
- Alternative 3:
- Alternative 4:
- Alternative 5:
- Alternative 6:
- Alternative 7:
- Alternative 8:

82.9 minutes
55.6 minutes
62.4 minutes
50.3 minutes
62.3 minutes
45.9 minutes
49.1 minutes
54.1 minutes
58.1 minutes



Preliminary Evaluation Results

Comparative Costs

• Construction Cost for Light Rail Transit:

Alternative 1:	\$120M
Alternative 2:	\$135M
Alternative 3:	\$254M
Alternative 4:	\$262M
Alternative 5:	\$533M
Alternative 6:	\$415M
Alternative 7:	\$428M
Alternative 8:	\$257M



Preliminary Evaluation Results

Comparative Costs

• Voting Results from Public Meetings – 37 Respondents

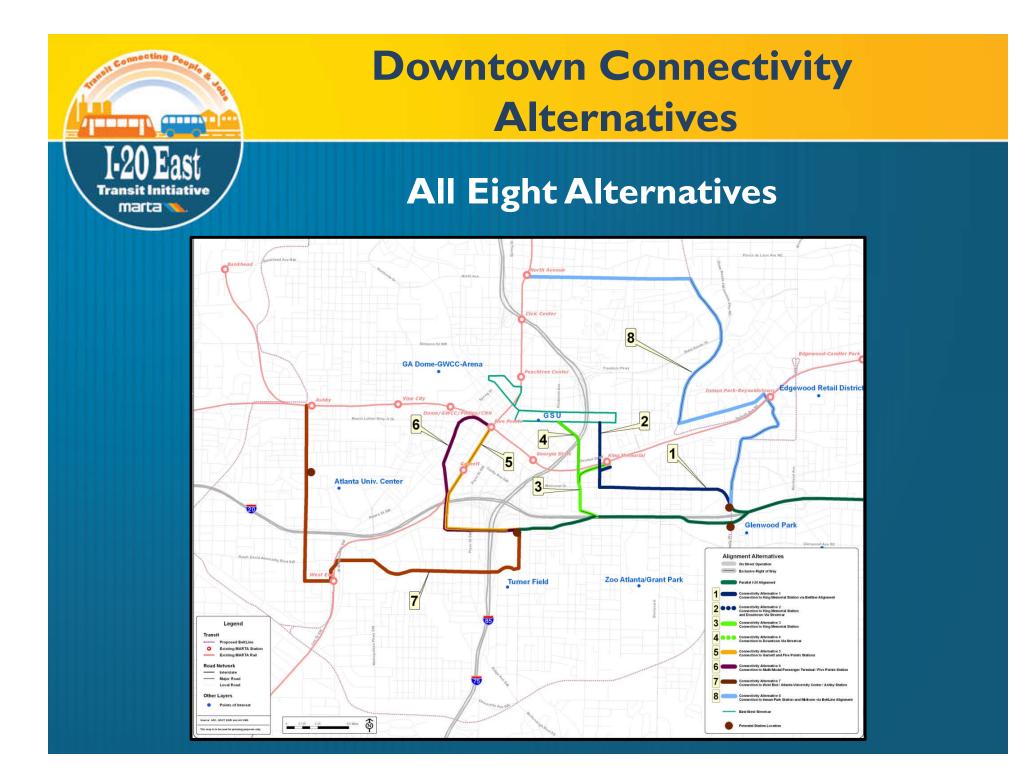
	Alternative 1:	0%
•	Alternative 2:	2.7%
-	Alternative 3:	16.2%
-	Alternative 4:	2.7%
	Alternative 5:	37.8%
	Alternative 5: Alternative 6:	37.8% 8.1%
•		



Keypad Voting Exercise

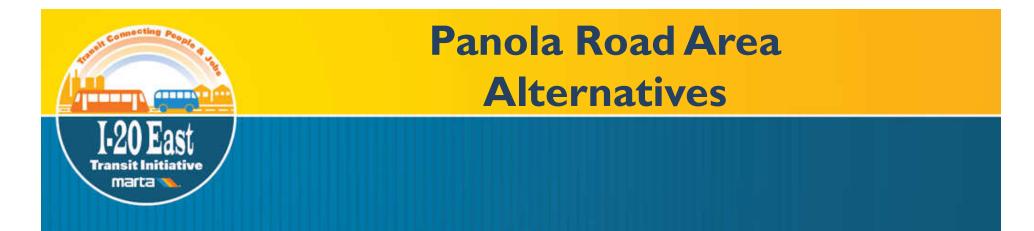
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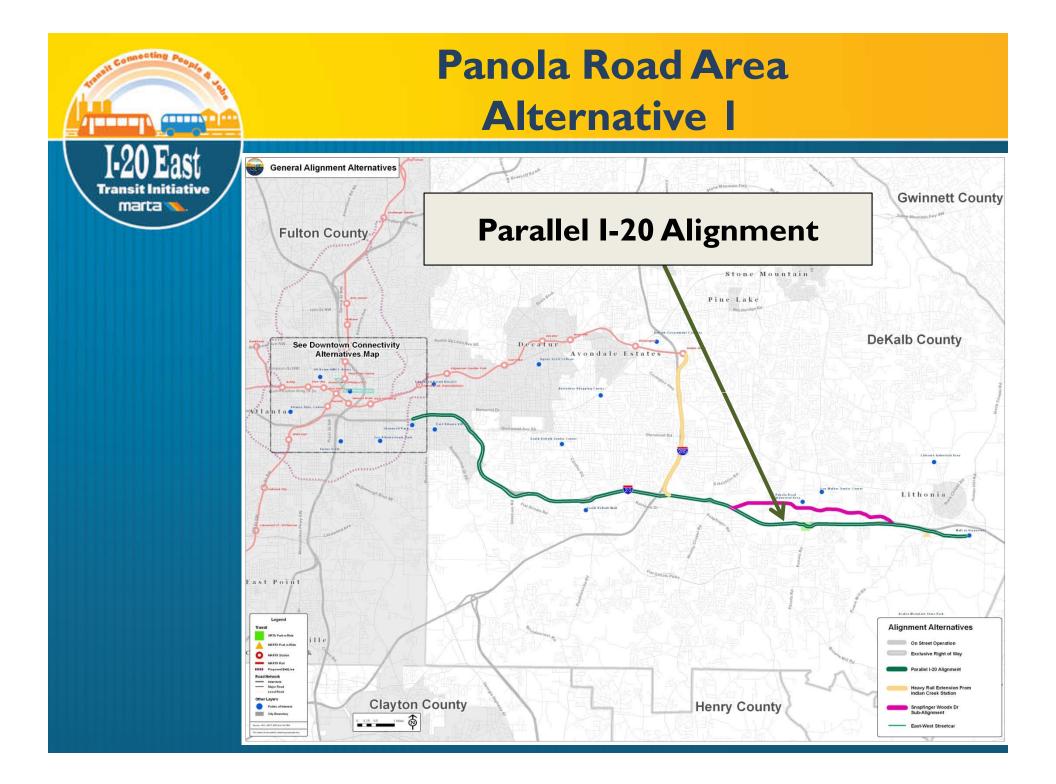


- 1. Connection to King Memorial Station via BeltLine Alignment
- 2. Connection to King Memorial Station and Downtown via Streetcar
- 3. Connection to King Memorial Station
- 4. Connection to Downtown via Streetcar
- 5. Connection to Garnett and Five Points Stations
- 6. Connection to Multi-Modal Passenger Terminal/Five Points Station
- 7. Connection to West End Station/Atlanta University Center/Ashby Station
- 8. Connection to Inman Park Station and Midtown via BeltLine Alignment



Two main alignment alternatives were identified for the Panola Road area:

- 1. Alignment parallel to I-20
- 2. Alignment on Snapfinger Woods Dr.



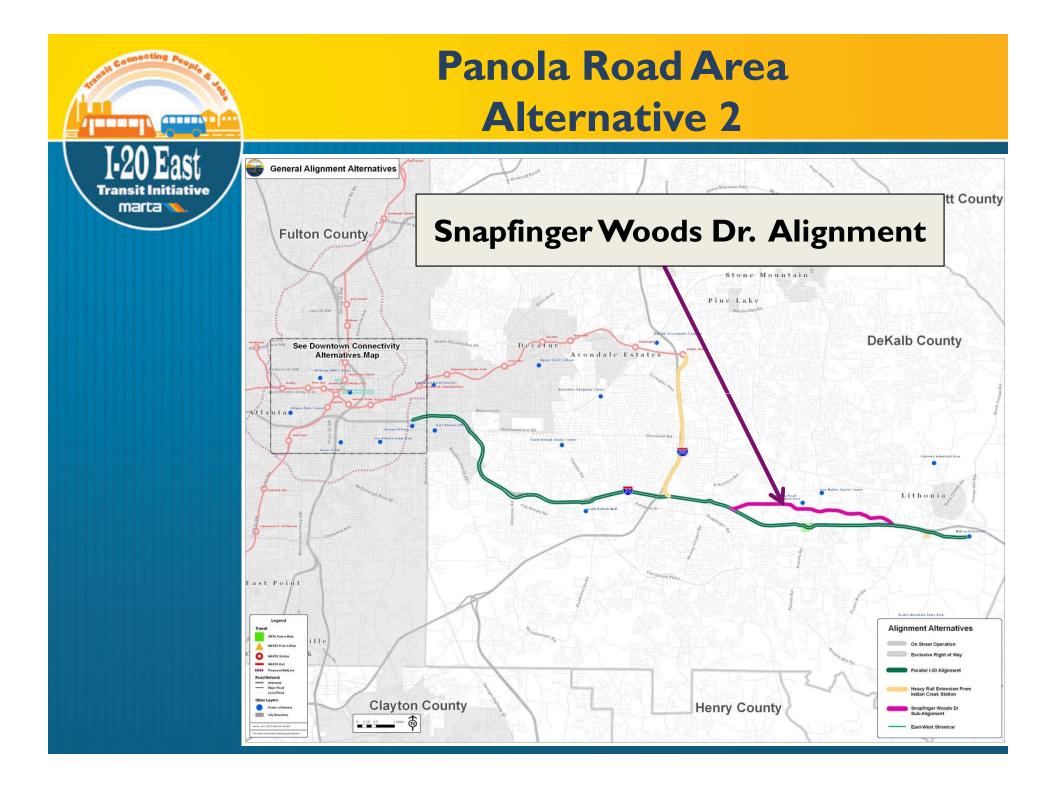


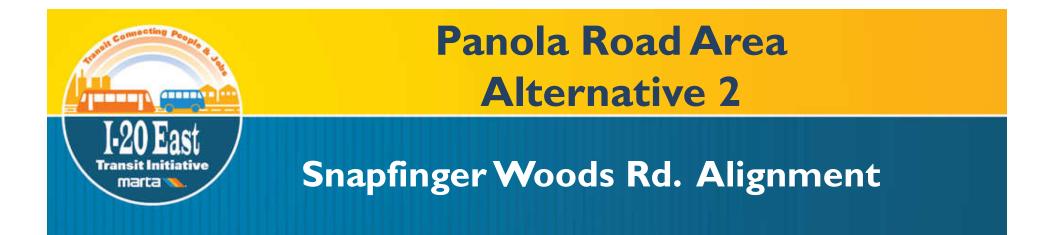
Potential Advantages

- Reduced and more reliable travel times due to dedicated transitway
- Convenient park and ride access for commuters on I-20

Potential Disadvantages

- Lack of direct access to DeKalb Medical Hillandale campus and the Panola Road Industrial Area
- Higher costs associated with dedicated transitway





Potential Advantages

- Better serves the DeKalb Medical Hillandale campus
- Better access to the Panola Road Industrial Area
- Lower costs due to on-street operation

Potential Disadvantages

• Longer and unreliable travel times resulting from on-street operation on Snapfinger Woods Dr



Panola Road Area Alternatives

Preliminary Evaluation Results

Ridership

• Total Boardings

 Alternative 1 (Parallel with I-20): 	26,976 Boardings				
 Alternative 2 (Snapfinger Woods Rd Alignment): 	22,511 Boardings				
New Transit Riders					
 Alternative 1 (Parallel with I-20): 	6,553				

Alternative 2 (Snapfinger Woods Rd Alignment): 4,334



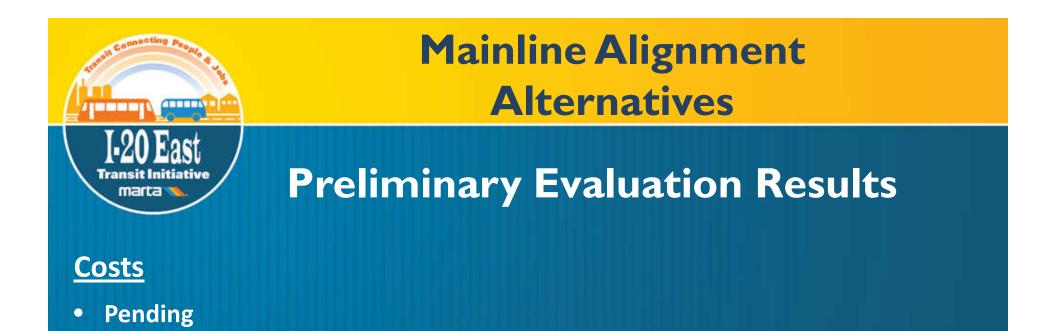
Panola Road Area Alternatives

Preliminary Evaluation Results

Travel Times (2030)

• Mall at Stonecrest to MARTA Five Points Station

 Existing Transit Service: 	74.4 minutes			
 Alternative 1 (Parallel with I-20): 	37.2 minutes			
 Alternative 2 (Snapfinger Woods Rd Alignment): 	48.2 minutes			
Mall at Stonecrest to MARTA Arts Center Station				
 Existing Transit Service 	82.9 minutes			
 Alternative 1 (Parallel with I-20): 	45.9 minutes			
 Alternative 2 (Snapfinger Woods Rd Alignment): 	56.9 minutes			



Community Support

- Alternative 1 (Parallel with I-20):
- Alternative 2 (Snapfinger Woods Rd Alignment):

81.6% of 38 public votes18.4% of 35 public votes



Keypad Voting Exercise

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1. Parallel to I-20 Alignment

2. Snapfinger Woods Drive Alignment



Transit Technologies to be Evaluated in Tier 2 Screening

Transit Technologies - BRT









Bus Rapid Transit (BRT)

- Limited stop service
- Rivals rail speeds
- Operates in exclusive or shared Rights-of-Way
- Less expensive to construct and operate than rail, but lower capacity
- Usually features dedicated stations

Transit Technologies - LRT









Light Rail Transit (LRT)

- Powered by overhead catenary wires
- Usually in exclusive Rights-of-Way, but can operate in mixed traffic
- Lower capacity than HRT, but less expensive to construct
- Higher capacity than BRT, but more expensive to construct and operate

Transit Technologies - HRT









Heavy Rail Transit (HRT)

- High speed, very high capacity
- Grade-separated Rights -of -Way
- Electric railway and/or overhead catenary wires
- High-platform loading
- More expensive to construct than LRT, BRT
- Potential to be obtrusive in neighborhoods and limit connectivity



Questions/Comments





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