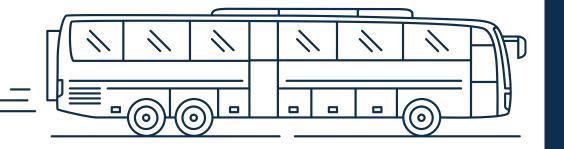


High Capacity Transit Study

March 2022











Agenda

- Huntsville MPO Area Now
 - Characteristics
 - Transit Network
- The Future of Huntsville MPO Area
- Future Transit Options
 - Identifying Corridors
 - Mode Selection
- Draft Study Recommendations
- What's Next





Huntsville MPO Area Now

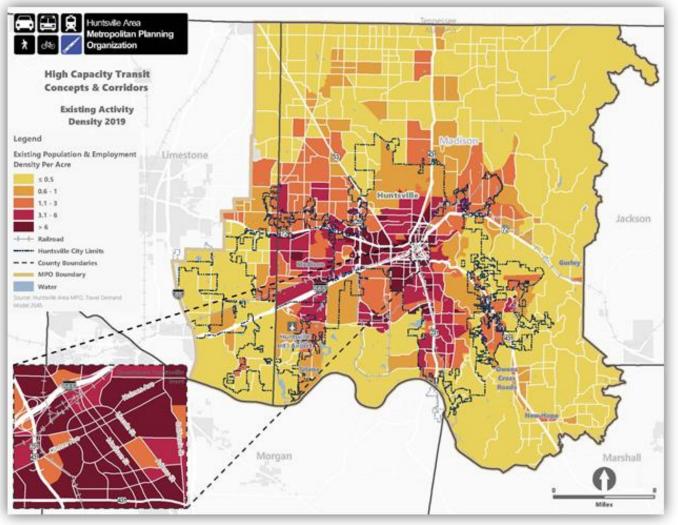






Activity Density & Major Employers

- UAH
- Redstone Arsenal
- Cummings Research Park
- Downtown Huntsville
- MidCity District
- Village of Providence
- Mazda/Toyota
- City of Madison





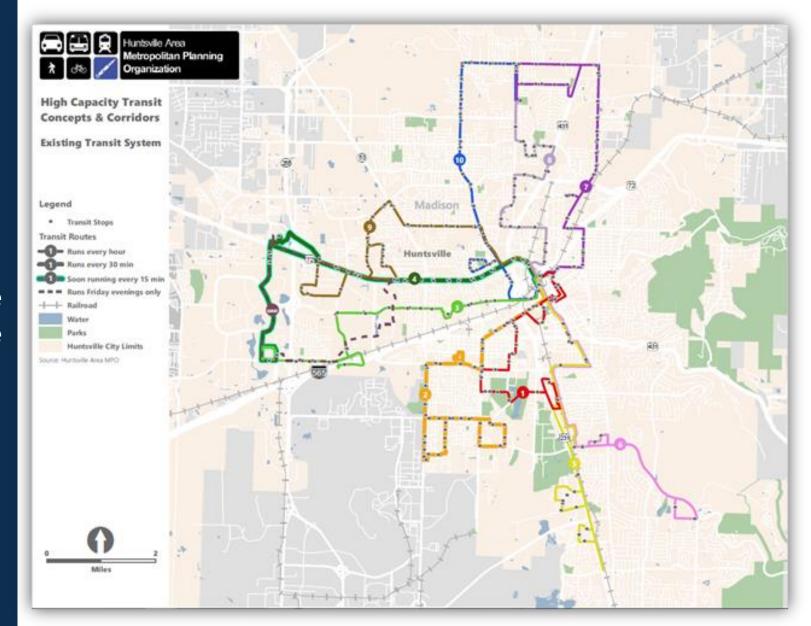






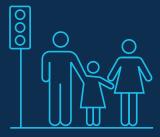
Transit Network

- 10 routes
- 1 special UAH route
- Monday Saturday service
- 7 routes operate 60-minute service
- 3 routes operate 30-minute service
- Route 4 recommended for 15minute service
- Paratransit/Demand Response Services including:
 - Access
 - TRAM
 - MARS





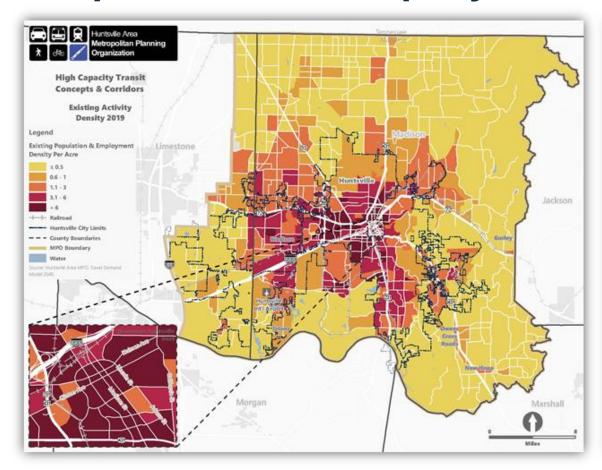
Future of Huntsville MPO Area

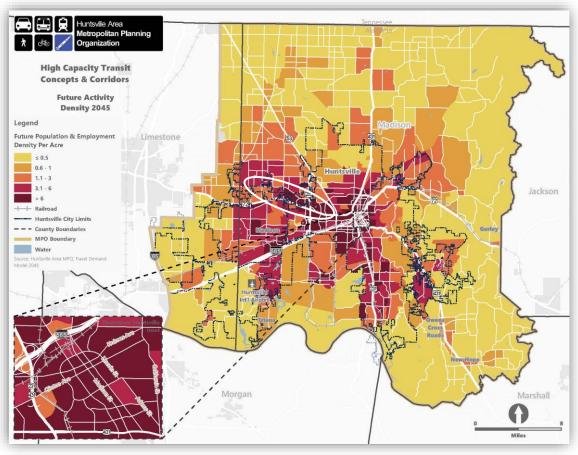






Population & Employment Density





Existing (2019)

Future (2045)



Future Transit Options

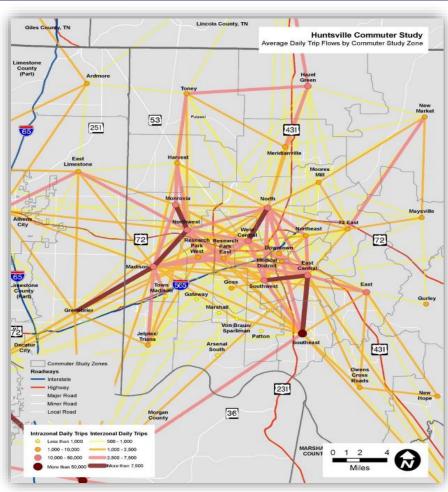




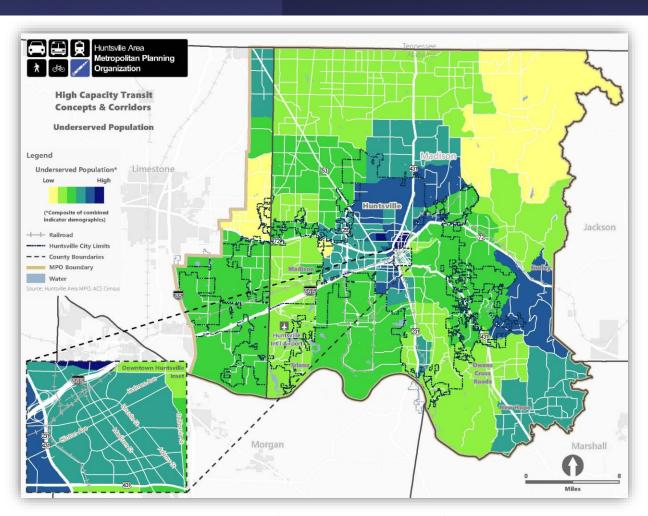


Identifying Corridors

Transit Propensity is a combination of sociodemographic characteristics that are markers for populations more like to use or depend on transit.

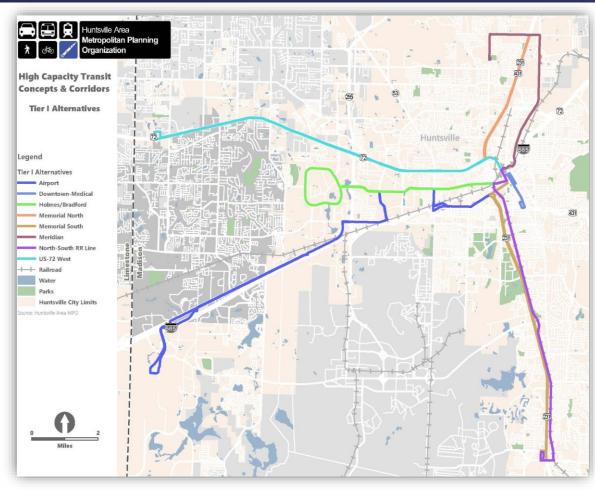


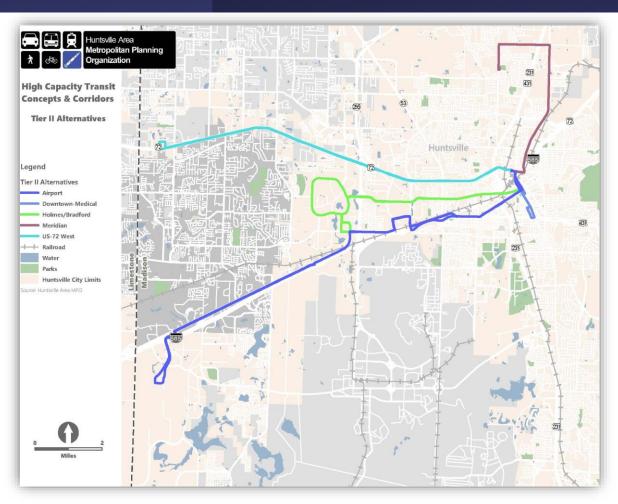
Trip Flows



Transit Propensity

Potential Transit Corridors





Tier I Corridors

Tier II Corridors

Corridor Refinement Criteria

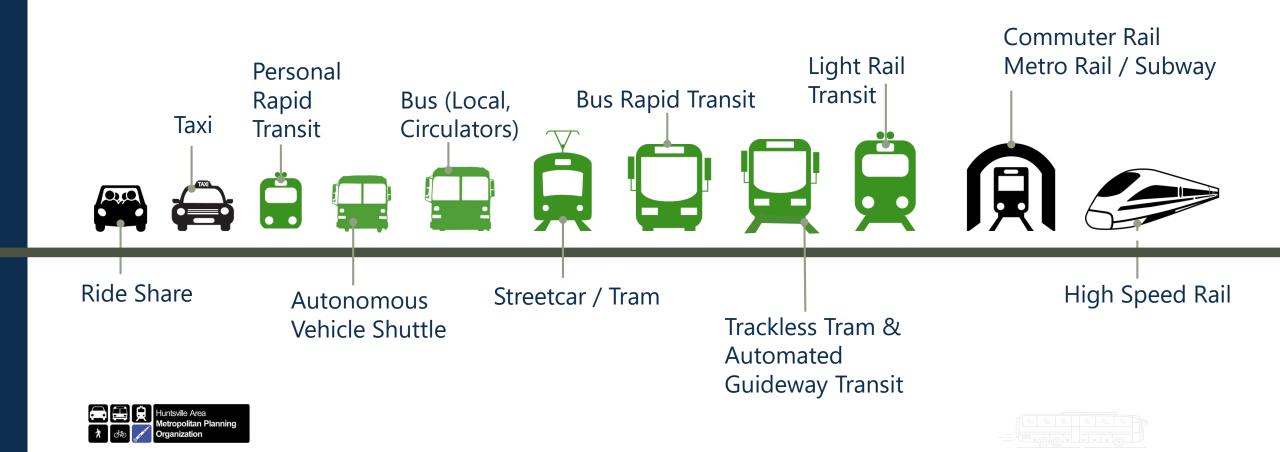
Criteria	Measure		
	Regional Commuter Corridors served		
	Service to planned park-n-ride facilities		
Support Multimodal Activity (25%)	Pedestrian/Bicycle facilities within half mile		
Support Multimodal Activity (25%)	Traffic Volumes within half mile		
	Quarter-mile Walkshed		
	Existing ridership within 1/2 mile		
Serve Diverse Travel Market Needs (25%)	Population density within ½ mile (2019)		
	Employment density with ½ mile (2019)		
	Transit propensity within 1/2 mile (2019)		
	Service to UAH and A&M		
	Service to other colleges		
	Planned development acres within 1/2 mile		
Sustain Economic Competitiveness and Development (25%)	Activity centers & special generators (airport, malls, hospitals)		
	Developable land		
	Serving new area		
	Directness of route		
Provide Speedy Service (25%)	Corridor speed limit		
	Available right of way		





Spectrum of Transit

Different modes serve different purposes and travel markets



Spectrum of Transit - Costs

City	Line	Mode	Opening Year	Length	Cost	Cost per Mile
Reno, NV	Lincoln Line	BRT	2018	3.1	\$52,570,000	\$16,958,000
Fort Collins, CO	MAX BRT	BRT	2014	5.0	\$74,200,00	\$14,840,000
Jacksonville, FL	Orange Line (Southwest Corridor)	BRT	2021	12.9	\$33,160,000	\$2,763,000
Raleigh, NC	New Bern Ave	BRT	In design	5.0	\$71,450,000	\$14,290,000
Portland, OR*	SW Corridor	LRT	Project Development	12.0	~\$2,600,000,000- 2,800,000,000 (includes fleet)	\$225,000,000
Austin, TX*	Orange Line	LRT	Project Development	12.0	\$3,800,000,000 (includes tunnel)	\$316,666,700
Minneapolis, MN*	Southwest	LRT	In construction (2027)	14.5	\$2,003,152,549 (includes fleet)	\$137,931,034
Phoenix, AZ*	South Central Extension	LRT	In construction (2024)	5.5	\$1,345,088,335	\$244,561,515

*New Starts



Draft Study Recommendations

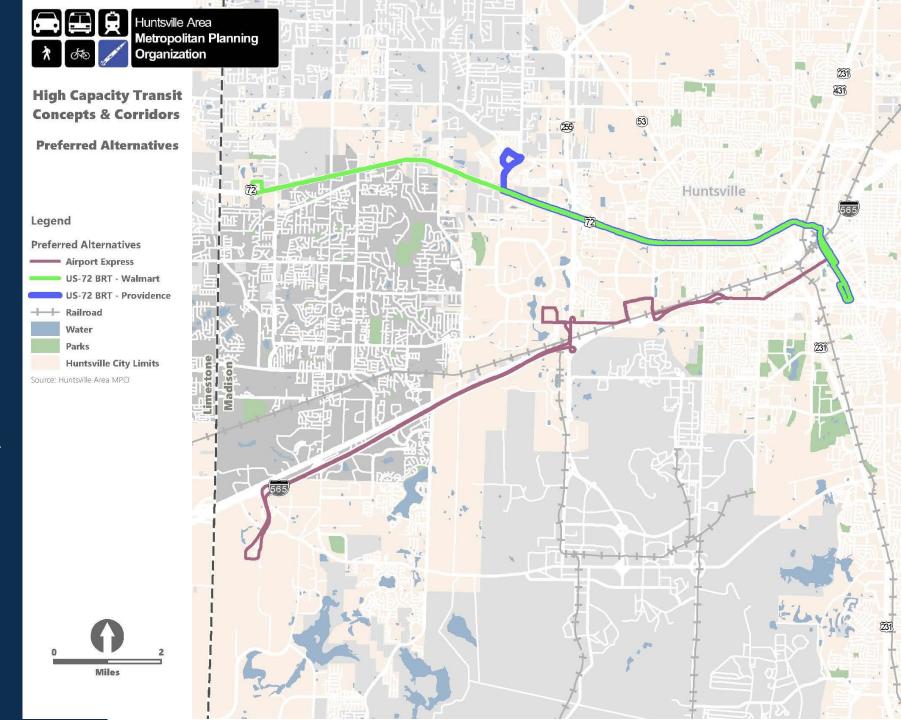






Identified Corridors

- U.S. 72 / Medical BRT
 - Corridor Growth
 - Transit Markets
 - Connection to Madison
- Airport Express Bus
 - Critical Connection
 - Destinations Along Corridor
 - Interim Service to Build Ridership





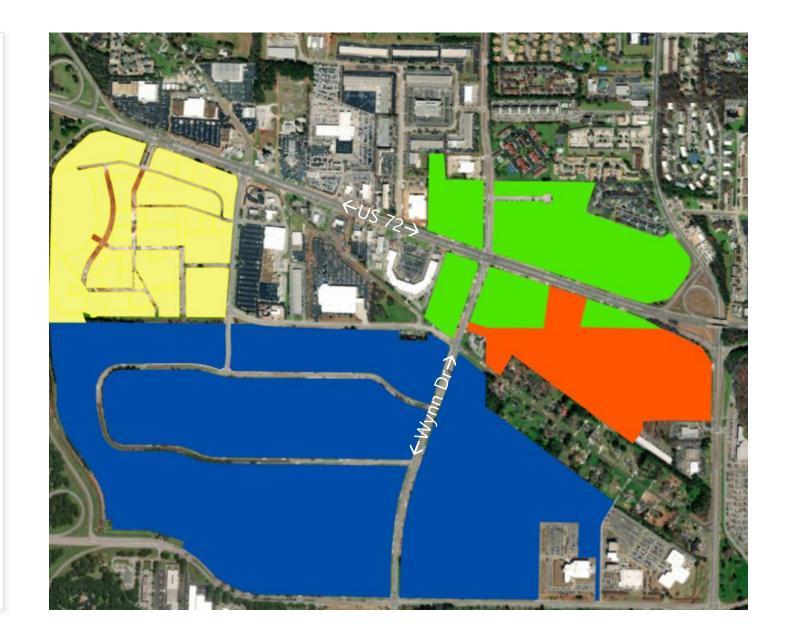
Land Use & Transportation

Development Activity

- MidCity District (yellow)
- Cummings Research Park (blue)
- UAH Expansion (orange)
- TOD concept (green)

Other

- Bike/Ped Connectivity
- Parking Policies
- Partnerships





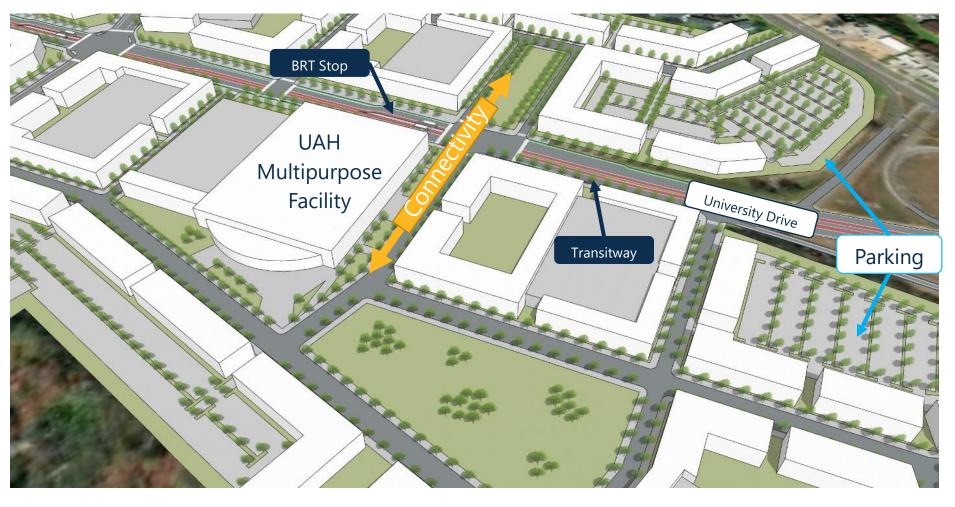
UAH Executive Office Plan

Wynn to Sparkman Dr



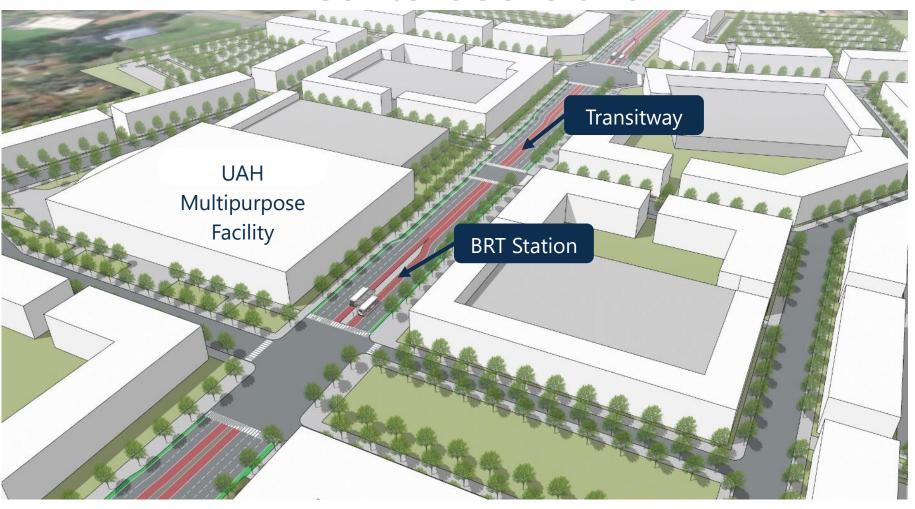


Walkable & Connected



Pedestrian Promenades & "Back Door" Parking

Context Sensitive

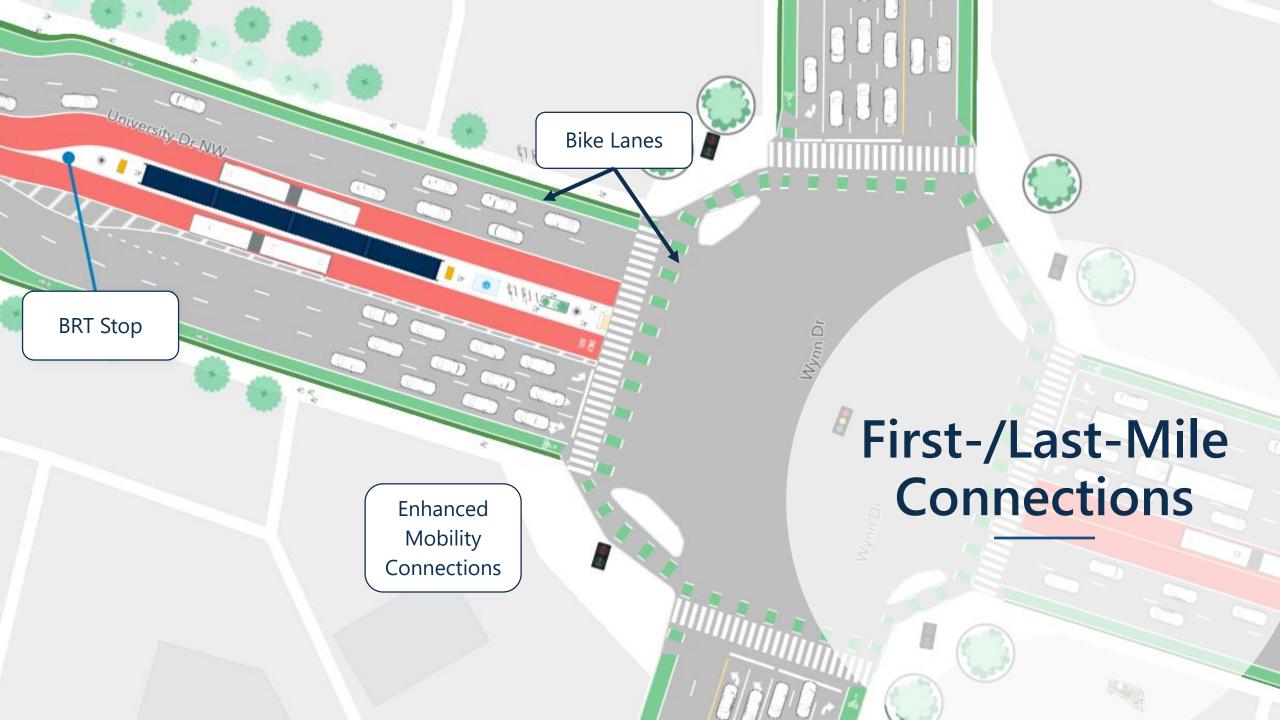


UAH Multipurpose Facility as TOD Focal Point

Dense & Diverse



Large & Small Buildings – Multistory & Street-Facing



What's Next







What's Next



Funding



Building Ridership



Public Engagement



Corridor Configuration



Operating Plan/Fleet





Funding - FTA Capital Investment Grant Program

New Starts

 Fixed guideway >\$400 million or seeking ≥\$150 million in CIG funds

Small Starts

 Fixed guideway or corridor-based BRT <\$400 million and seeking <\$150 million in CIG funds

Core Capacity

 Expands capacity by ≥10% in an existing fixed guideway corridor that is at capacity today or will be in five years



FTA Capital Investment Grant Program Small Starts Process

Project Development

- Complete environmental review process (NEPA)
- Select locally preferred alternative & adopt into fiscally constrained long-range plan
- Local financial commitment
- FTA criteria for funding (rating package)
- Complete sufficient engineering & design

Small Starts Grant Agreement

- Final Design
- Fleet Acquisition
- Construction





Funding Continued

- Local match required for FTA funding
- FTA discretionary grants (RAISE)
- Partnerships
 - Universities/colleges
 - Medical Centers
 - Chamber of Commerce
 - Large employers



U.S. 72 BRT -**Building Ridership**

Ridership - Average Weekday Boardings

1,327

3,000



Route 4 & System-Wide **Improvements**

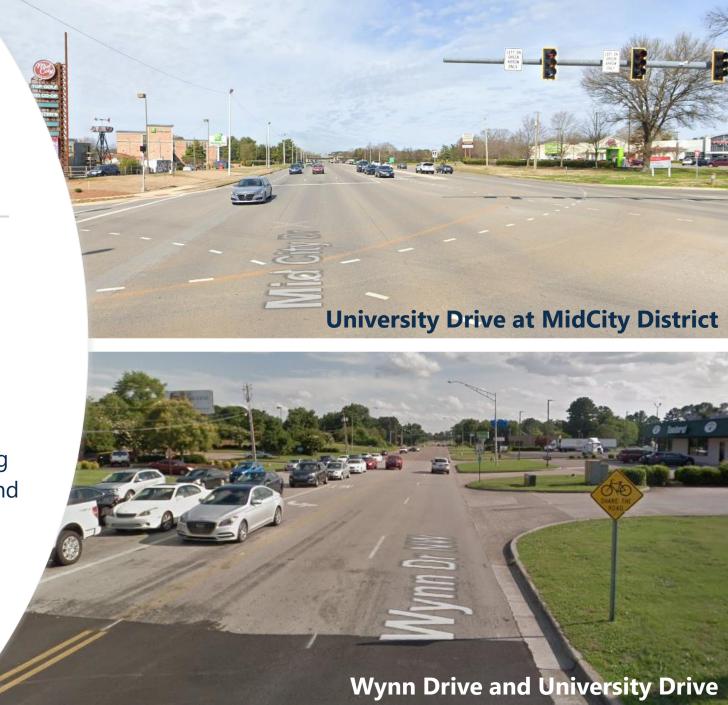
Today

CIG Competitiveness



Building Ridership

- Improve service on routes in U.S. 72-Medical corridor
 - Route 4 is primary route
 - Several others Routes 5, 6, 9
- System-wide frequency improvements
 - Connections need to be convenient
- Integrated land use and transportation planning
 - Places that are accessible to pedestrians and bicyclists are an important piece of the puzzle
 - *Incorporate TOD principles into actively ongoing updates to City of Huntsville and City of Madison zoning codes
 - First/last mile connections





Define Corridor Configuration



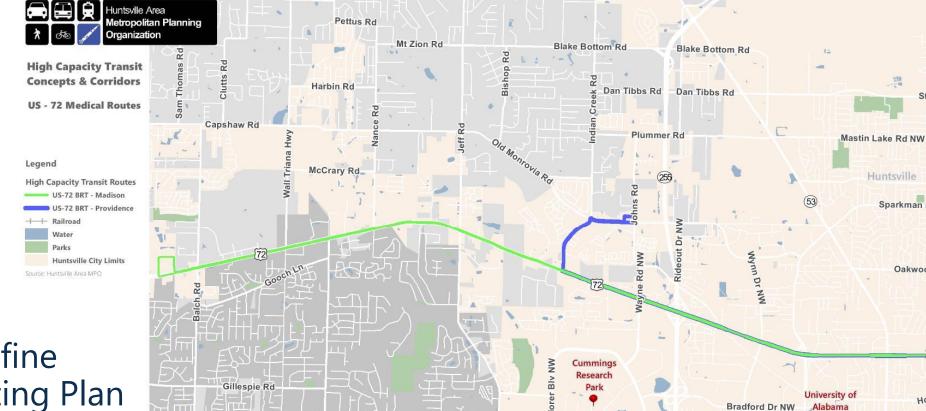






Side running

Center running



Eastview Dr

Refine **Operating Plan**

US 72 -Medical





	US 72 / Medical			
	Scenario 1	10	6	\$3,100,000
1.1	Scenario 2	12	5	\$2,500,000
_	Scenario 3	15	4	\$2,000,000

Old Madison Pke

Stringfield Rd NW

231

Huntsville

Sparkman Dr NW

Oakwood Ave NW

Holmes Ave NW

9th Ave SW

Bob Wallace Ave SW

Questions











Cummings Research Park





