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- Enhancing mobility and accessibility to and within the study area by providing a more robust transit network that offers an alternative to automobile travel.

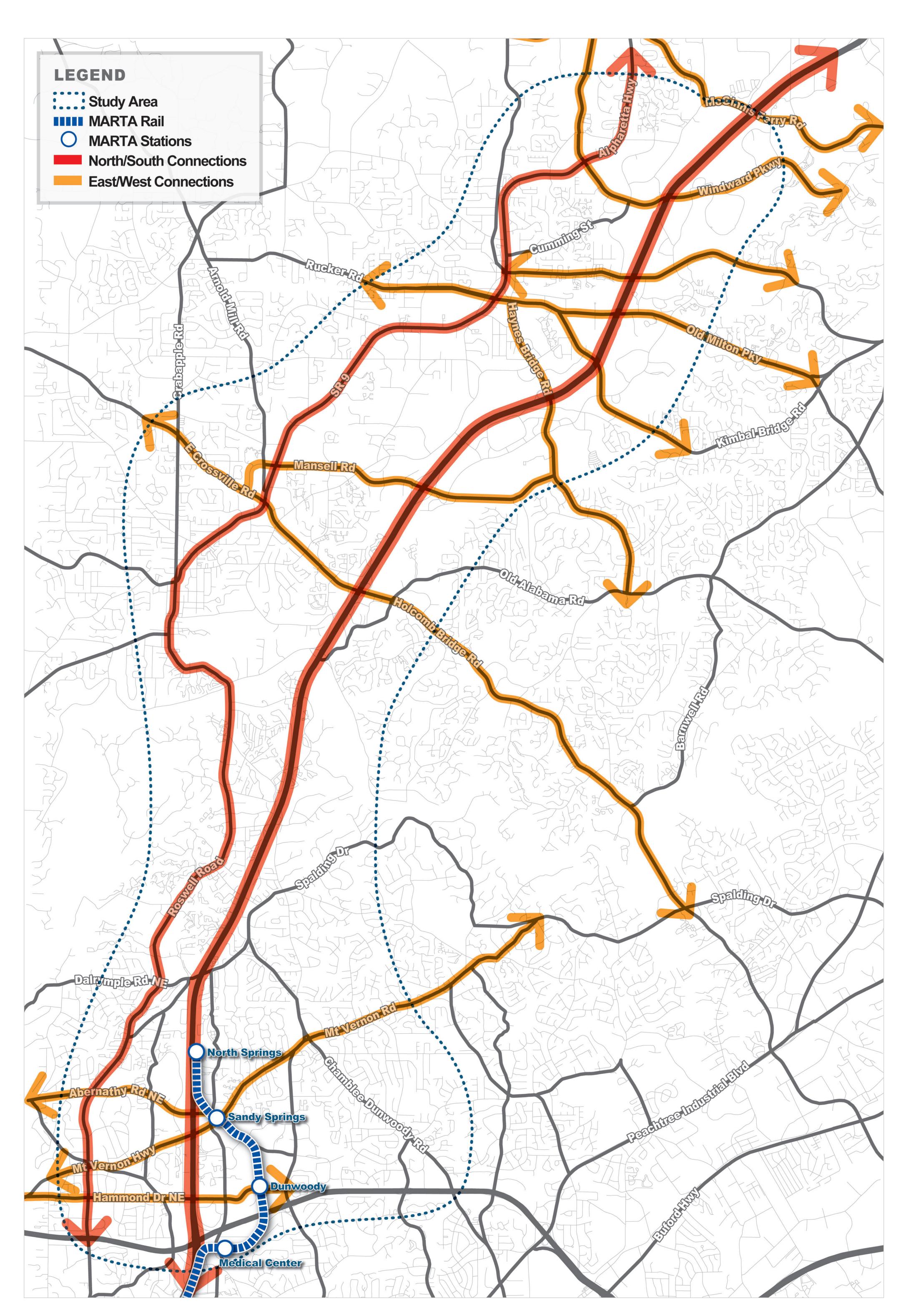


GOAL 1 Improve Mobility and Access



EAST / WEST CONNECTIVITY

- Improve transit access and connectivity to employment, education, residential, and activity centers within the study area and the region
- Increase transit ridership and capacity
- Improve transit travel times and reliability for all trip purposes
- Improve multimodal connections and access to the existing transit systems



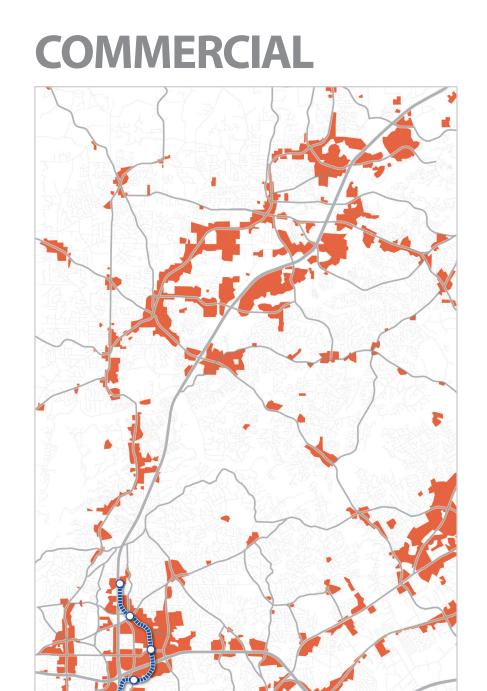
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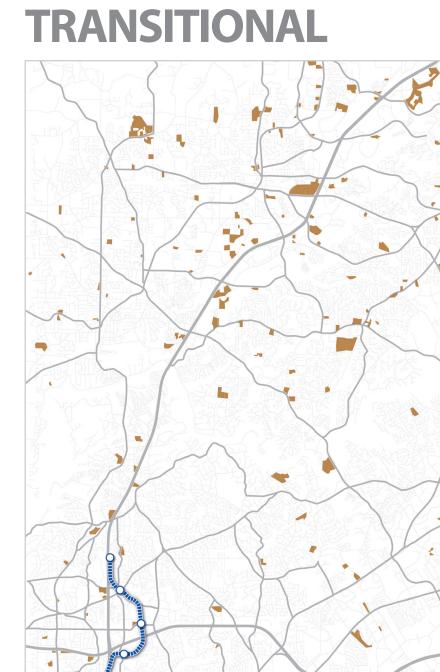
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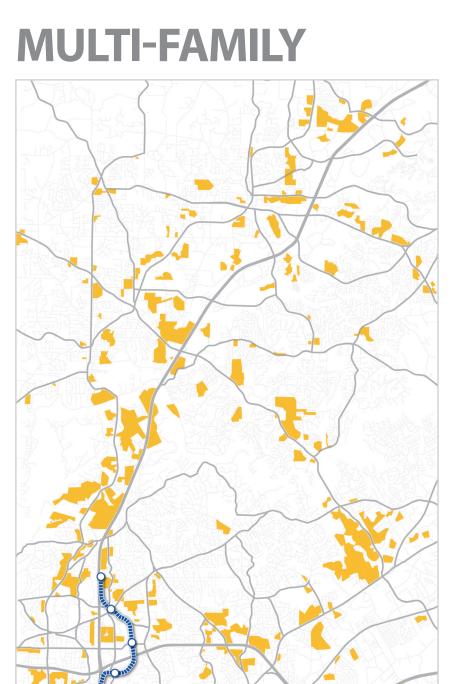


GOAL 2

Support Land Use and Economic Development Planning



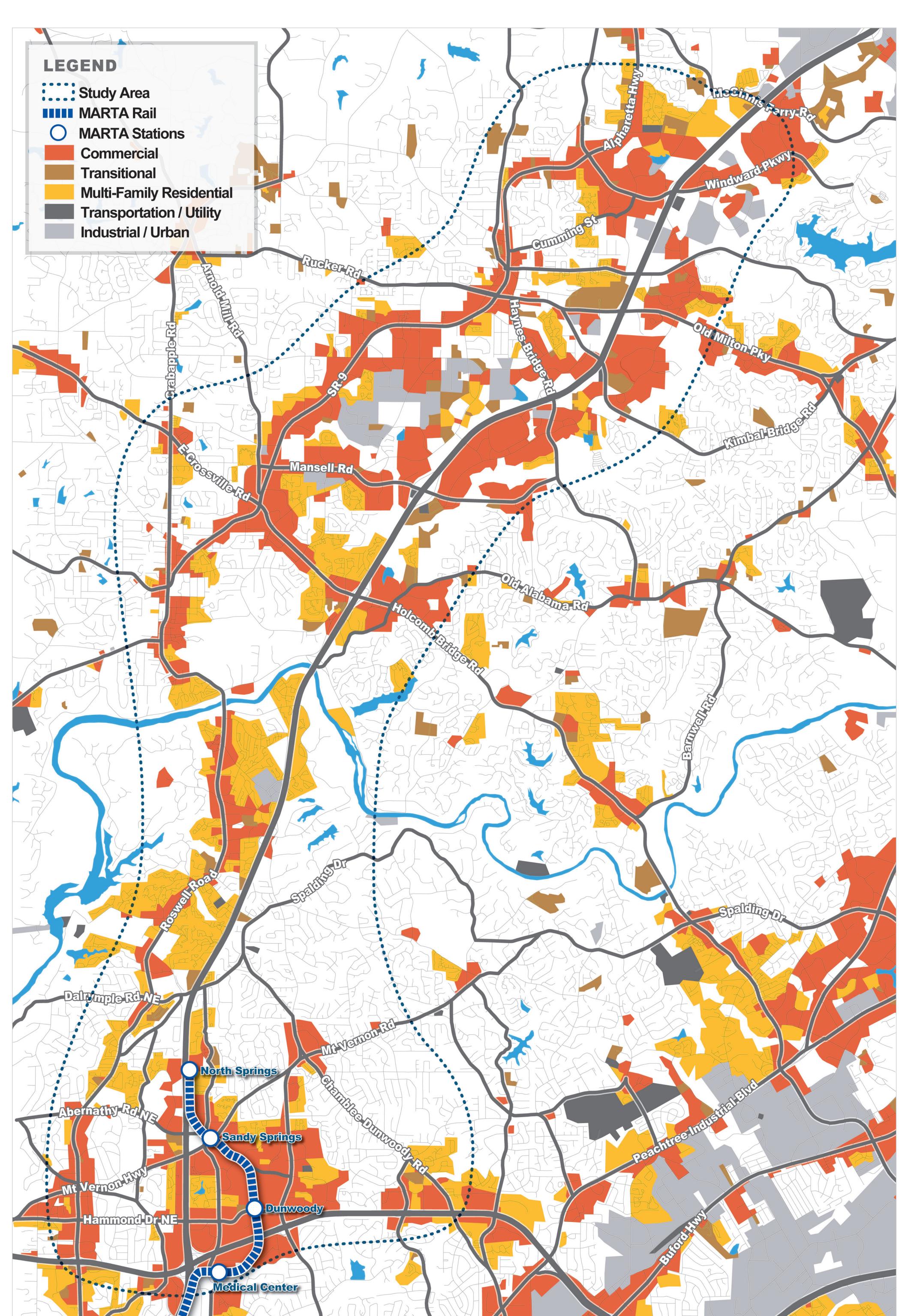






JRBAN A STATE OF THE STATE OF T

- Complement land use plans of study area jurisdictions
- Support planned and potential economic development
- Provide opportunities for compact land development that supports transit ridership





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GOAL 3

Provide Cost-Effective **Transit Service**

BUS



BUS RAPID TRANSIT



LIGHT RAIL TRANSIT



HEAVY RAIL TRANSIT



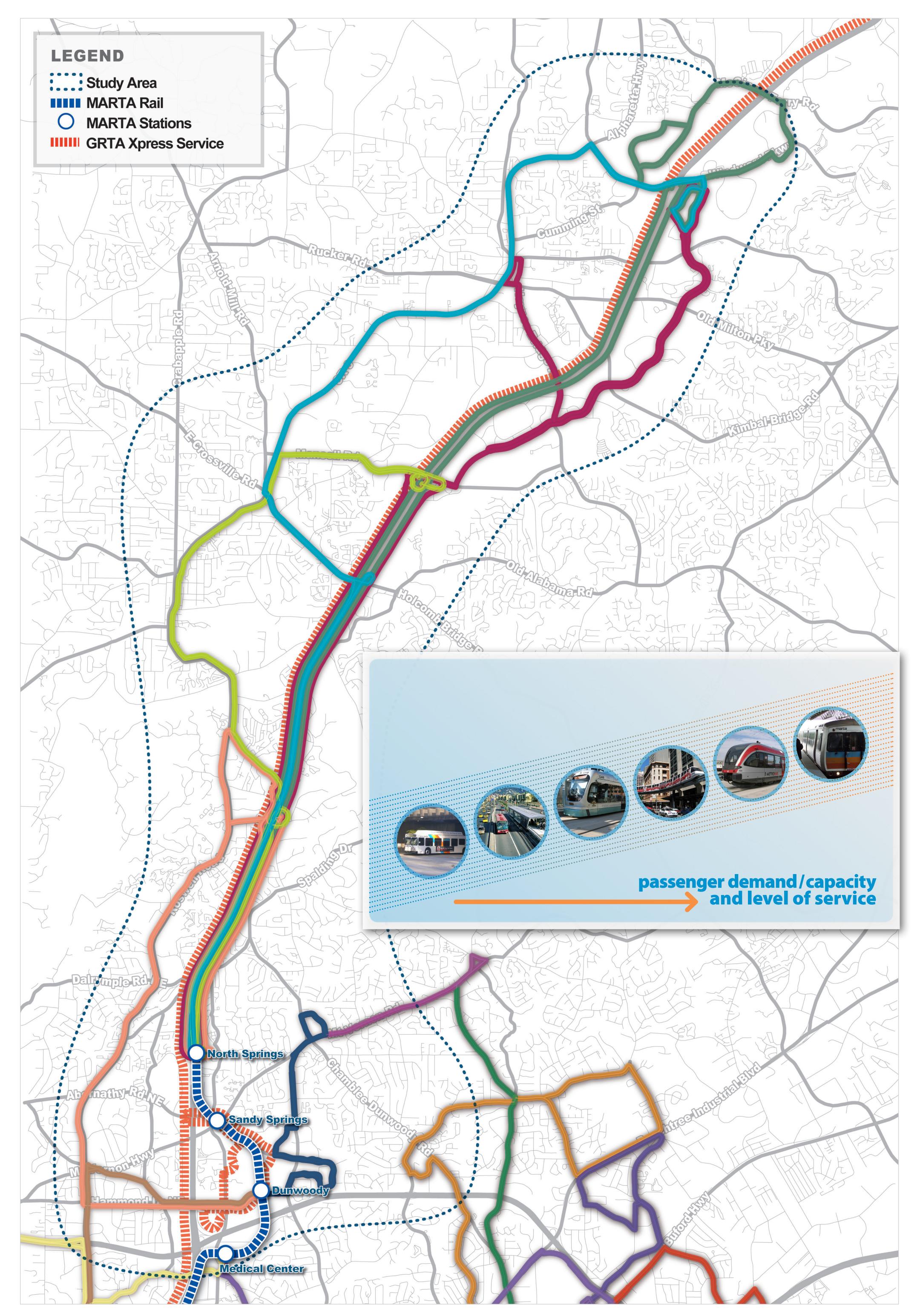
DIESEL MULTIPLE UNIT



AUTOMATED



- Maximize operating cost-efficiency
- Match the transportation investment to the study area's level of travel demand
- Provide a cost-effective transit system





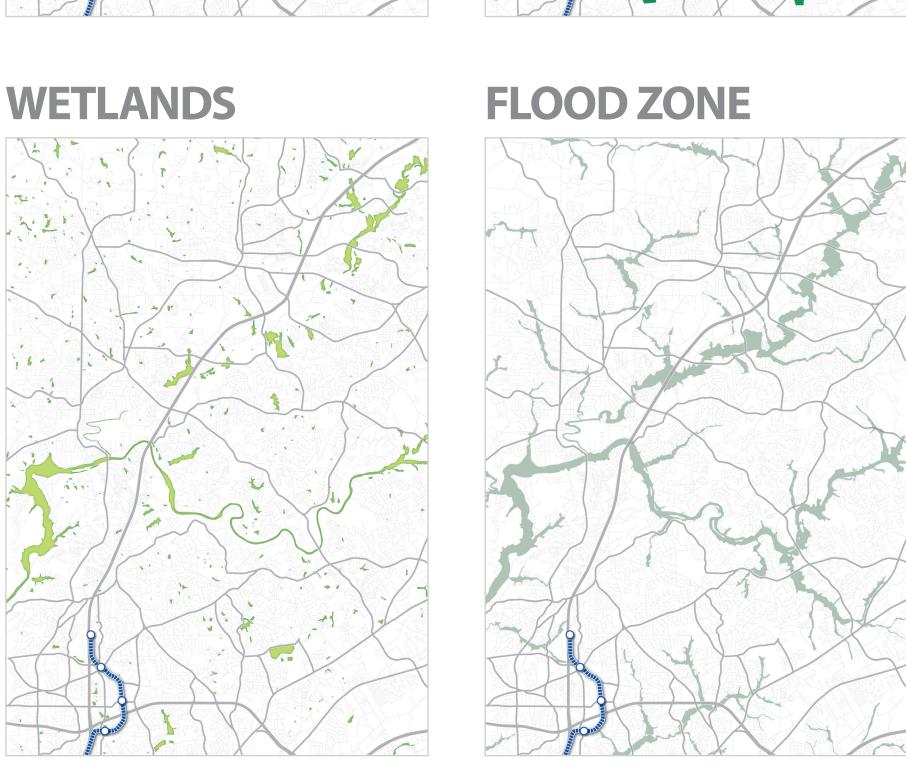
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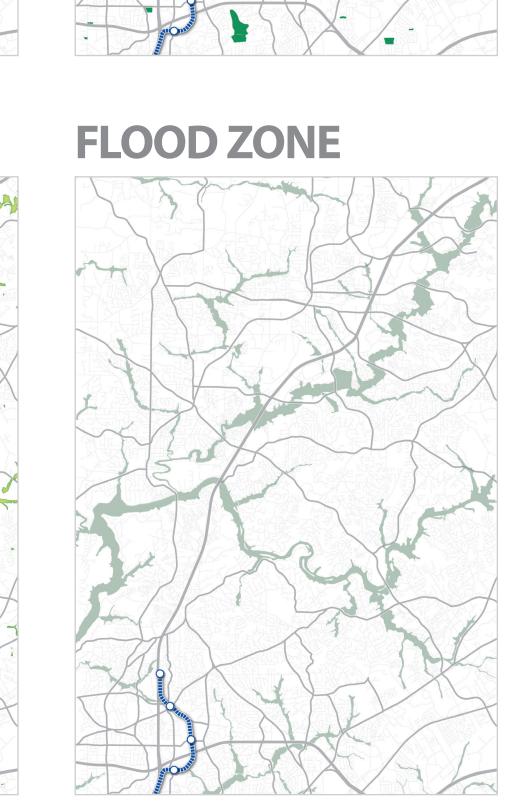
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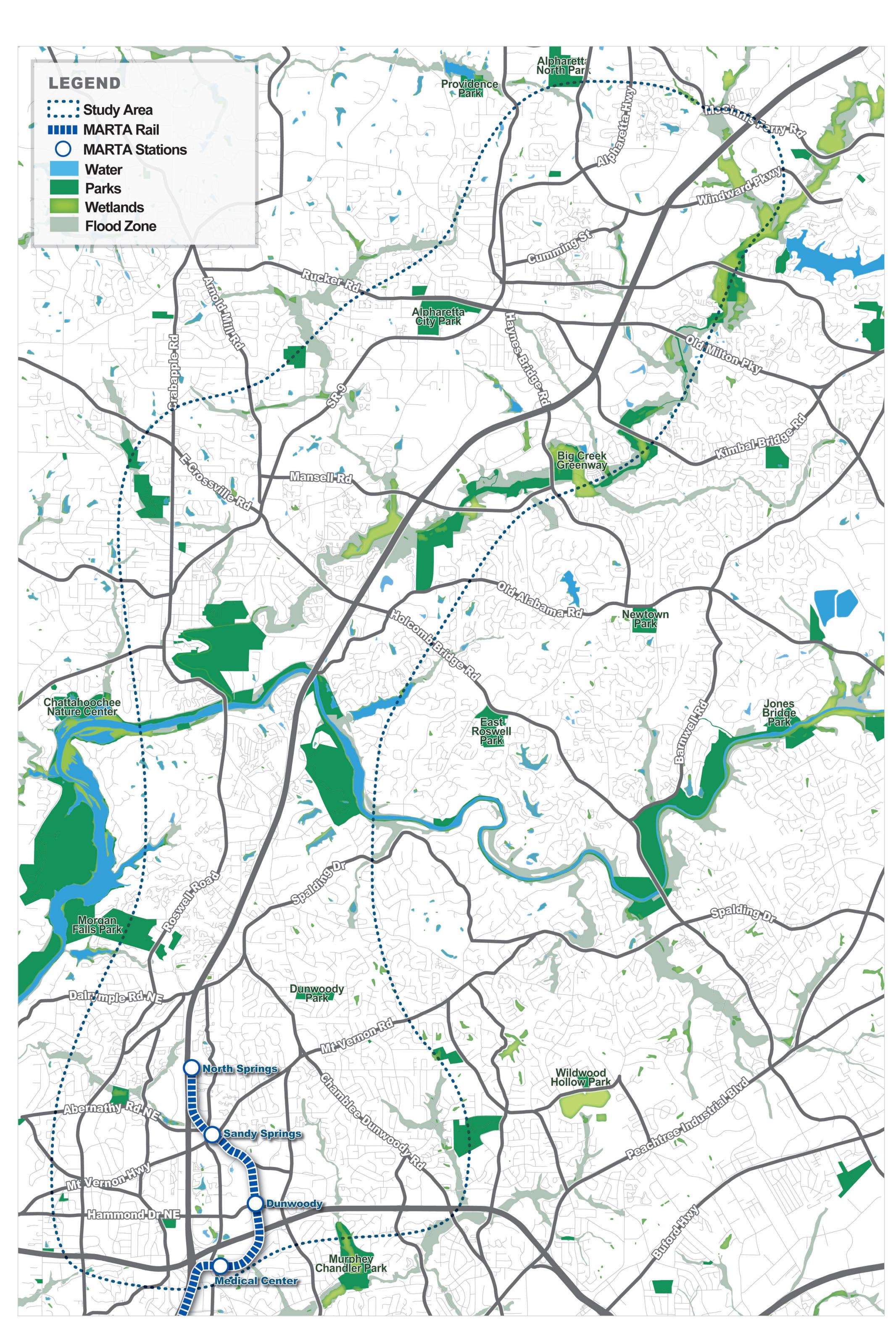
GOAL 4 Minimize Environmental Impacts







- Avoid, minimize, and mitigate impact to cultural, historic, and environmentally sensitive areas
- Avoid, minimize, and mitigate negative impacts on the surrounding community, including parks





community including parks



		Evaluation Framework		narta \\	® CONNECT (100) GA 400 TRANSIT INITIATIVE	
Transportation Challenges	Goals and Objectives	Evaluation Criteria	Performance Measures	Fatal Flaw	Screen 1	Screen 2
	Goal 1: Improve Mobility and Access					
 Levels of roadway congestion are 	Increase porth couth and east west transportation capacity	Mobility Travel Times	Total daily project transit boardings			X
forecasted to increase along the corridor			New transit riders			X
			Number of transfers per linked trip			X
 Transit mobility options are limited. 	Increase transit ridership Improve transit travel times and reliability for all trip purposes		Total passengers per mile			X
 Transit travel times are not competitive 			Potential impacts to roadway capacity	X	X	X
with auto travel times in the corridor.			Annual corridor crash reductions Transit travel time savings			X
Travel demands are increasing.			Transit travel time savings Differences in transit and auto travel times between various origins and destinations in the stu	udy area		Y
	Improve transit access and connectivity to employment, education, residential, and activity centers within the study area and the region	Accessibility and Connectivity	Projected population, household, and employment within a 10 minute walk and drive of static	•	×	X
			rojected population, nousenoid, and employment within a 10 minute want and arrive or static	3113	<i>/</i>	7
			Major trip generators/activity centers within a 10 minute walk and drive of stations	X	X	X
	Improve multimodal connections and access to the existing transit systems		Low-income, minority, elderly and zero-car populations/households within a 10 minute walk of	of stations	X	X
			Interface with existing transit and future Concept 3 rapid transit service		X	X
			Maximize walking and bicycling accessibility to stations			X
	Goal 2: Support Land Use and Economic Development Plan	ning				
Economic development is constrained.	Ensure consistency with land use plans of study area jurisdictions	Land Use and Development	Consistency with adopted local and regional plans		X	
	Support planned and potential economic development		Acres of land with economic development incentives within ½ mile of stations			X
	Provide opportunities for compact land development that supports transit ridership		Projected population and employment densities within ½ mile of stations		X	X
			Acres of transit-supportive future land uses and zoning within ½ mile of stations		X	X
			Acres of vacant or underutilized land within ½ mile of stations			X
	Goal 3: Provide Cost-Effective Transit Service					
 There is a funding shortfall to construct 	Maximize operating and cost-efficiency		Annual Operations and Maintenance (O&M) Costs		X	X
transportation improvements	Match the transportation investment to the study area's level of travel demand		Construction Capital Costs	X	X	X
			Right of Way Costs	X		X
	Provide a cost-effective transit system	Cost Effectiveness	Cost Effectiveness Index (incremental costs divided by transportation system user benefit)			X
			Incremental cost per new rider			X
	Goal 4: Minimize Environmental Impacts					
	Avoid, minimize, and mitigate impact to cultural, historic, and environmentally sensitive areas	Environmental Quality	Acres of potentially impacted wetlands and waterbodies within 500 feet of alignments and $\frac{1}{2}$ stations	mile of	X	X
 Continued growth of vehicular travel will negatively affect the study area's environment. 			Number of potentially impacted historic resources within 500 feet of alignments and $\frac{1}{2}$ mile of	of stations	X	X
			Acres of noise sensitive land uses within 700 (HRT), 350 (LRT), or 200 (BRT) feet of alignments			X
			Number of contaminated and hazardous material sites within ¼ mile of alignments			X
		Air Quality	Change in Vehicle Miles Traveled (VMT)			X
			Change in daily emissions of air quality pollutants (CO, NOx, PM2.5, PM10)			X
	Avoid, minimize, and mitigate negative impacts on the surrounding	Environmental Justice	Low-income, minority, elderly and zero-car populations/households near alignments			X

Community Impact

Estimated community impacts/disruptions and number of displacements

PROJECT SUMMARY BOARD





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Transit Technology Matrix

	BUS	BUS RAPID TRANSIT (BRT)	LIGHT RAIL TRANSIT (LRT)	HEAVY RAIL TRANSIT (HRT)	DIESEL MULTIPLE UNIT (DMU)	AUTOMATED GUIDEWAY TRANSIT
VEHICLE	A local bus or a coach Short or long buses, various design options	Rubber-wheeled vehicles, various design options	Rail cars powered by overhead catenaries on a fixed guideway. Various design options, including Street Cars (SC).	Rail cars powered by electric fixed guideway	Self-propelled rail cars with a diesel engine, usually underneath the carriage. Cars can operate individually or be linked for longer trains	Single elevated rail that provides support and electric power
RIGHT OF WAY	Shared	Exclusive, Shared, or Combination	Exclusive, Shared, or Combination	Exclusive	Exclusive, usually on existing freight rail lines. New systems can operate similar to LRT	Exclusive
SERVICE	EXPRESS: longer distance service with few stops. LOCAL: frequent stops serving local trips.	Typically serves regional trips, and local trips in dense urban areas.	LRT typically serves regional trips of longer distance with few stops, while SC serve shorter local trips with multiple stops.	Typically serves regional trips, and local trips in dense urban areas.	Typically used for regional service with few stops, or where existing freight lines are available. New systems can operate similar to LRT.	Typically used for local trips in dense urban areas.
STOPS/ STATIONS	Flexible stop locations. Various design options.	Typically fixed stations with a pre-boarding payment. Some systems have flexible stop locations.	Typically fixed stations with a pre-boarding payment. Some systems have flexible stop locations.	Fixed stations with elevated platform and pre-boarding payment.	Fixed stations with elevated platform and pre-boarding payment.	Fixed stations with elevated platform and pre-boarding payment.
CAPACITY	PERSONS / VEHICLE 40-85	PERSONS / VEHICLE 45-150	PERSONS / RAIL CAR 70-255	PERSONS / RAIL CAR 170-300	PERSONS / RAIL CAR 85-200	PERSONS / RAIL CAR 40-160
COST	VEHICLE COST \$220,000-\$400,000	VEHICLE COST \$0.3-\$1 M CONSTRUCTION / MILE \$10-\$40 M	VEHICLE COST \$2-\$4 M / LRT \$0.6-\$3 M / SC CONSTRUCTION / MILE \$10-\$105 M	VEHICLE COST \$2.5-\$3.5 M CONSTRUCTION / MILE \$80-\$260 M	VEHICLE COST \$2.1-\$2.3 M CONSTRUCTION / MILE \$3-\$15 M	CONSTRUCTION / MILE \$90-\$130 M



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STUDY AREA

GA 400 Corridor Alternatives Analysis

