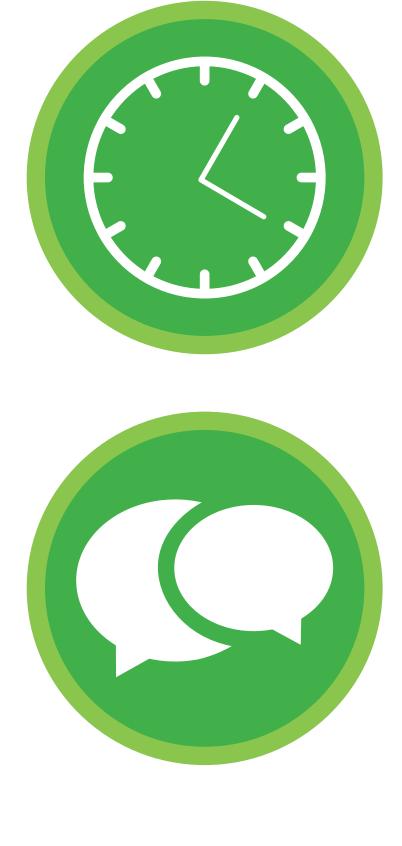
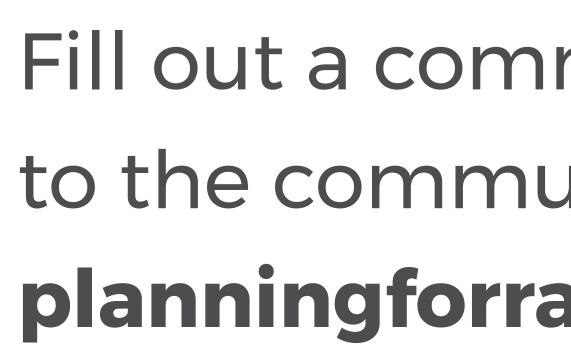
# Bus Rapid Transit (BRT) WELCOME!

# WELCOME TO THE WAKE BUS RAPID TRANSIT: WESTERN BOULEVARD CORRIDOR STUDY KICK-OFF MEETING! THE PURPOSE OF THIS MEETING IS TO INFORM THE PUBLIC ABOUT BRT AND GATHER FEEDBACK ON **KEY DESTINATIONS SERVED BY BRT TO IDENTIFY PREFERRED ALIGNMENT OPTIONS.**



A brief presentation will begin at 6:30PM. In the meantime, please feel free to spend as much time as you want at the stations.

Walk around to each information booth to learn more about the project and talk with staff. Refreshments are provided.





Spanish translation available by request / Traducción al Español está disponible a pedido.

Fill out a comment form, add your comments to the project map or the map of the corridor, and to the community wall activity to give us your feedback. You can also fill out the survey online at planningforraleigh.com/BRTprojects.



# Bus Rapid Transit (BRT) WAKE TRANSIT PLAN

# **CONNECT THE** REGION

More express bus service to Chapel Hill and RDU, and new rail service to Durham

### **Implement Bus Rapid Transit (BRT)**



BRT creates dedicated bus lanes on local roads so bus operators can bypass traffic and keep their routes on schedule.

## THE WAKE COUNTY TRANSIT PLAN INCLUDES FOUR "BIG MOVES"

### **CONNECTALL WAKE COUNTY** COMMUNITIES

New or improved transit service to all 12 Wake County municipalities

### **Fund Local Service**



The Plan also expands transit in Wake County for municipalities that currently do not have service by allowing them to apply for matching funds to develop and operate local bus service.

### **Increase Bus Service**



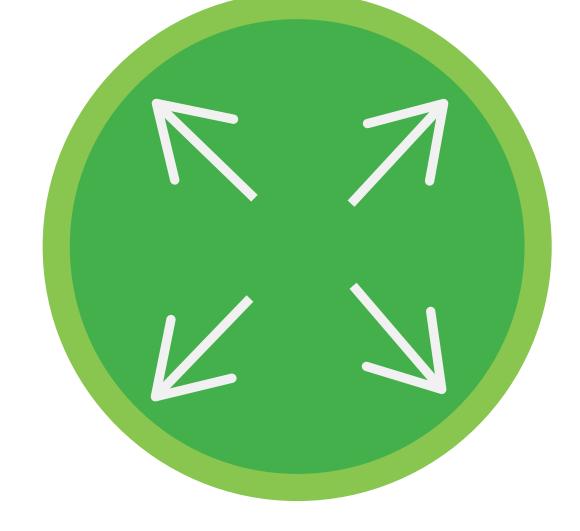
Expand existing frequent bus services from 17 to 83 miles, with service at least every 15 minutes

## PROVIDE FREQUENT RELIABLE **URBAN TRANSIT** More 15-minute service

in urban areas, with longer hours and weekend service

Increased bus service across the country for rural residents

### **Expand Rural On-Demand Service**



Many Wake County residents depend on rural, on-demand transit services to get to necessary destinations.





### **Implement Commuter Rail Transit (CRT)**

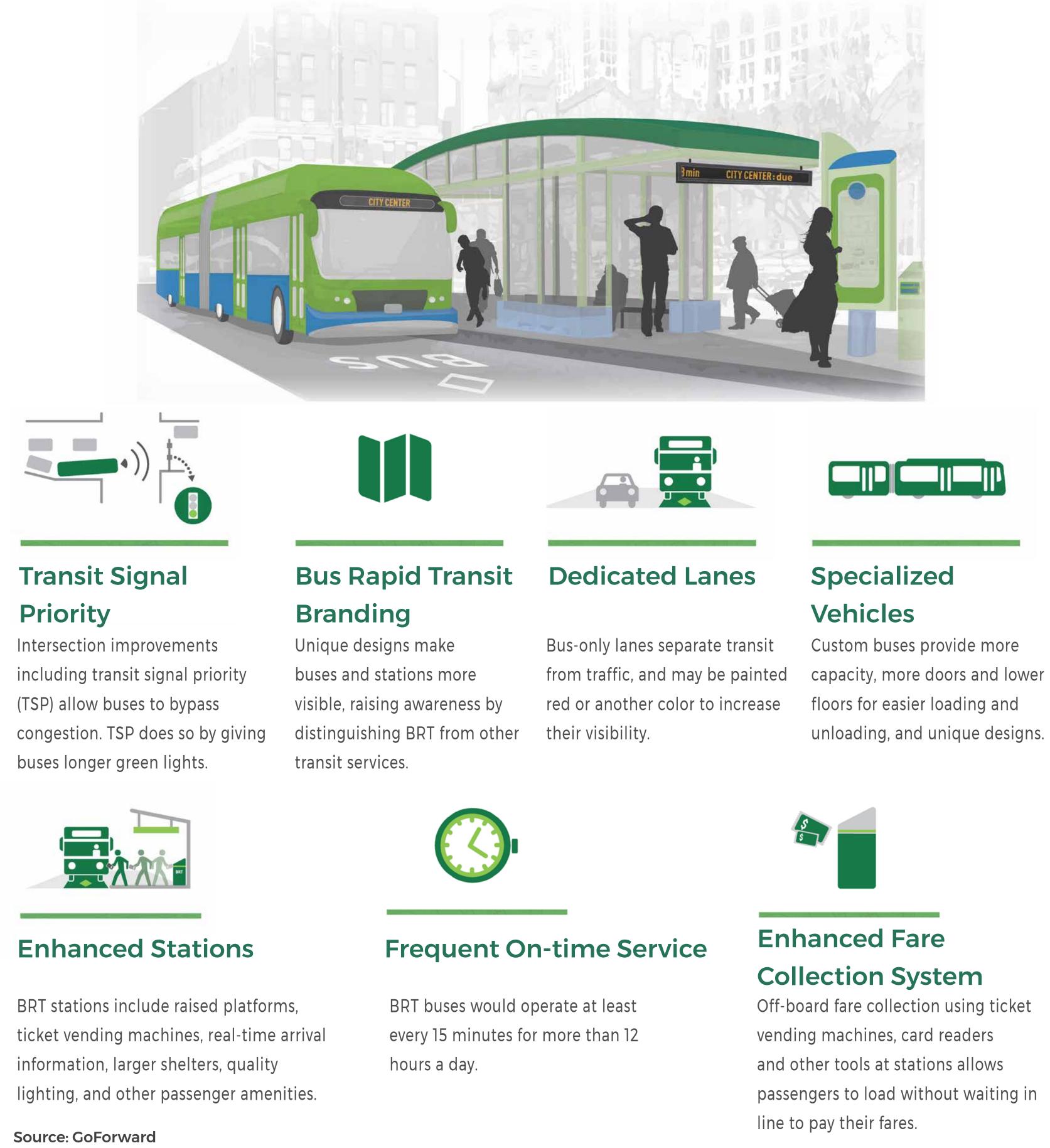


CRT will use existing railroad tracks to provide comfortable passenger service that allows riders to relax or work on their way to key destinations.

## Bus Rapid Transit (BRT) WHAT IS BRT?

### WHAT IS BRT?

Bus Rapid Transit (BRT) is a flexible, high speed bus service that combines physical and operational elements to improve speed and reliability. BRT creates dedicated bus lanes on local roads so bus operators can bypass traffic and keep their routes on schedule. The plan calls for building approximately 20 miles of BRT lanes. Along these BRT corridors, buses will have priority treatment at traffic signals. BRT stops will feature raised platforms, making it easier for passengers with wheelchairs, strollers or bicycles to board the bus. Fares are collected on the platform so riders can board without delay.



Custom buses provide more floors for easier loading and unloading, and unique designs.

Off-board fare collection using ticket passengers to load without waiting in

### **BENEFITS OF BRT**

Improve Mobility: Connect people to jobs, education resources, and other opportunities

Transit-Oriented, Sustainable Development: Support walkable places that support both housing and commercial destinations

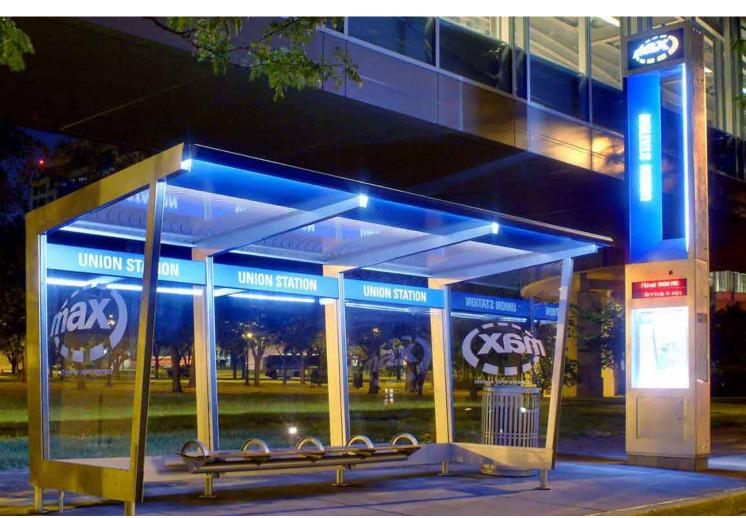
**Reduce Emissions:** Improve air quality by reducing the number of vehicles on the road

**Enhance Equity:** Save money for households who drive less or opt out of car ownership altogether

### PRECEDENTS



**ARRIVAL INFORMATION** CT*fastrak*, Central Connecticut, CT



**MODERN STATION WITH SHELTERS AND LIGHTING** MAX BRT, Kansas City, MO

**BRANDED BUS AND STATION WITH REAL-TIME** 





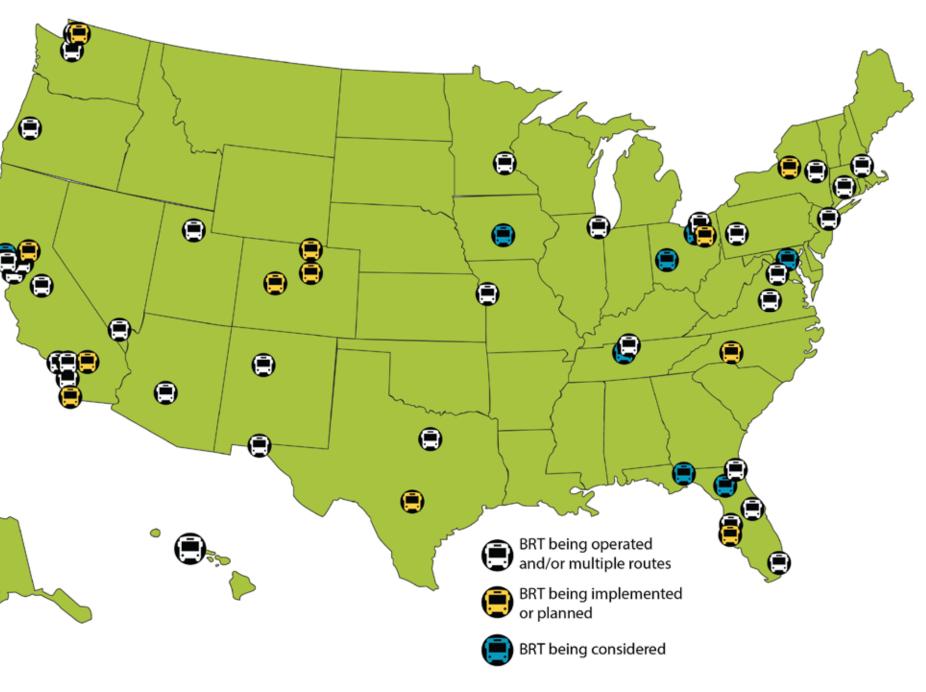
**DEDICATED BUS WAY** Pulse BRT, Richmond, VA



**STATION WITH SHELTERS AND AMENITIES** Orange Line, Los Angeles, CA



### **U.S. CITIES WITH BRT**





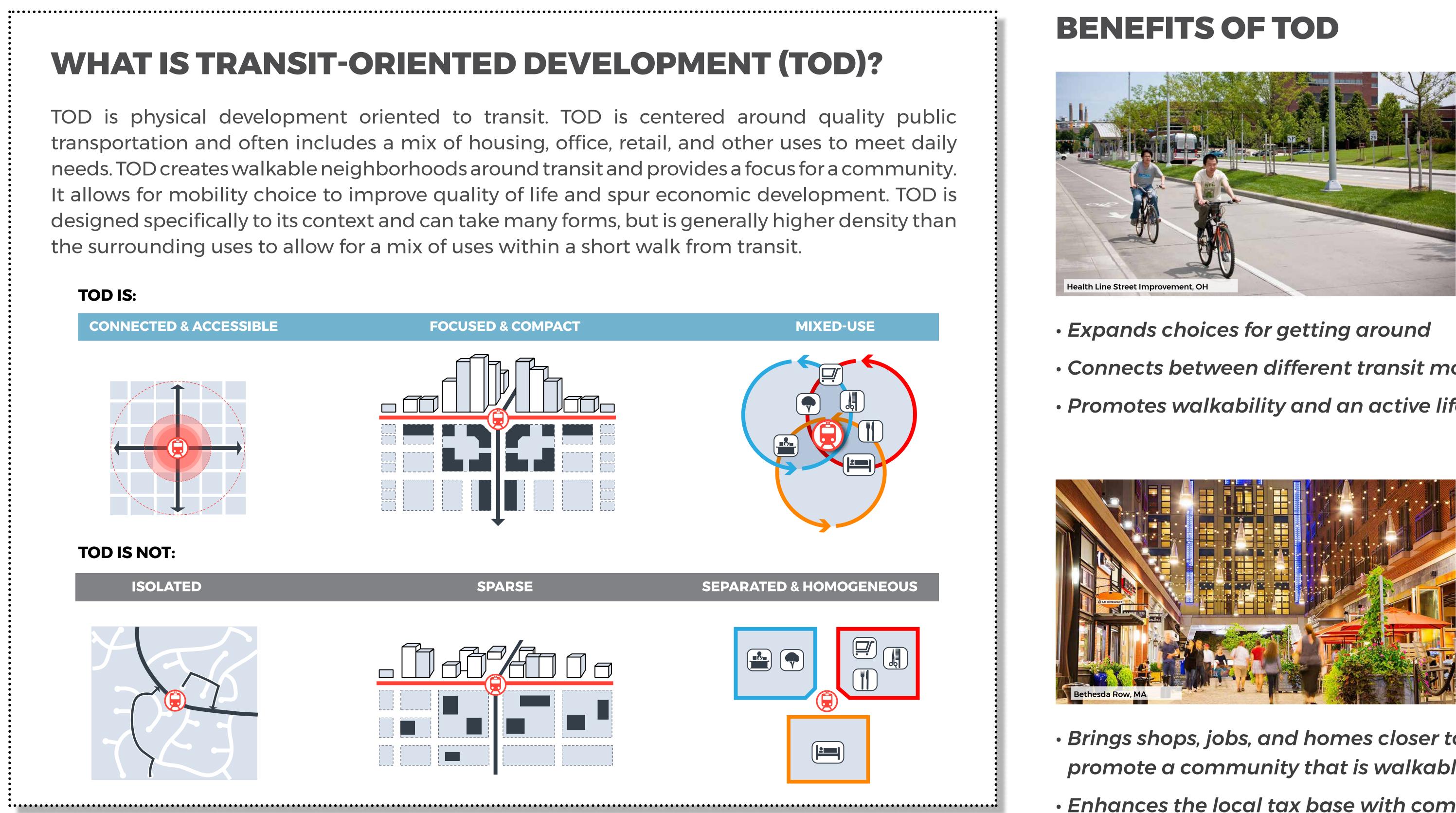
**DEDICATED BUS WAY** EmX, Eugene, OR



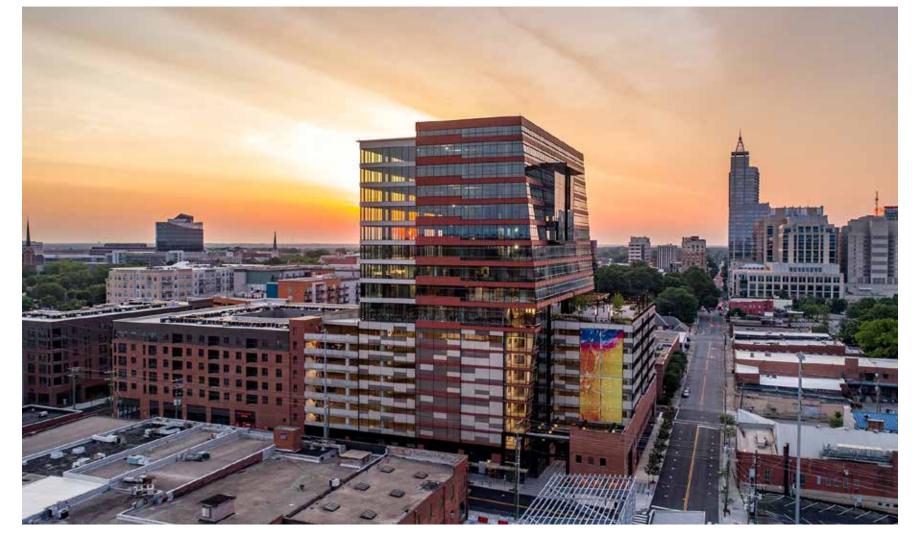
**IMPROVED STATION AREA STREETSCAPE** Health Line, Cleveland, OH



# Bus Rapid Transit (BRT) **TRANSIT SUPPORTIVE PLANNING**



### **DEVELOPMENT SCALES IN RALEIGH**







FOUR-STORY RESIDENTIAL OVER RETAIL 401 Oberlin apartment building, Raleigh, NC



THREE-STORY SUBSIDIZED RENTAL HOUSING The Village at Washington Terrace, Raleigh, NC

 Connects between different transit modes Promotes walkability and an active lifestyle

 Brings shops, jobs, and homes closer together to promote a community that is walkable

• Enhances the local tax base with compact, high value development





increase adjacent property values



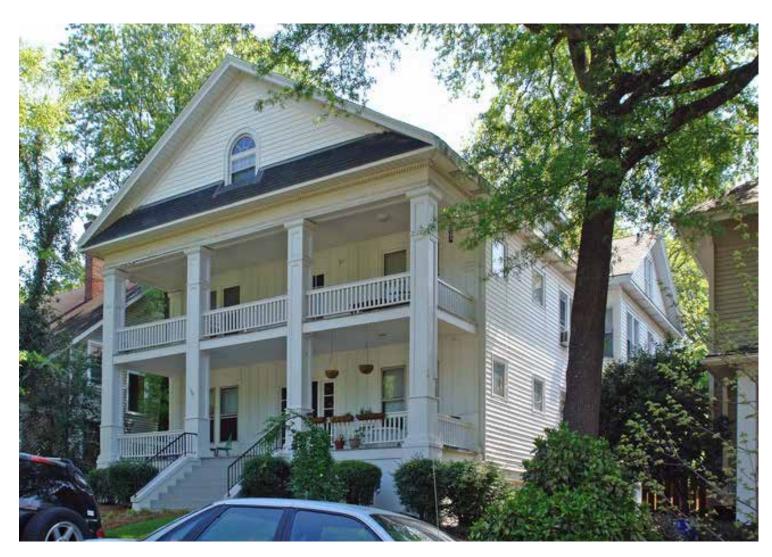
**TWO-STORY TOWNHOUSES** St. Mary's Townhomes, W. Hargett Street, Raleigh, NC





 Creates vibrant centers of activity Creates places to live/work/play Enhances the public spaces

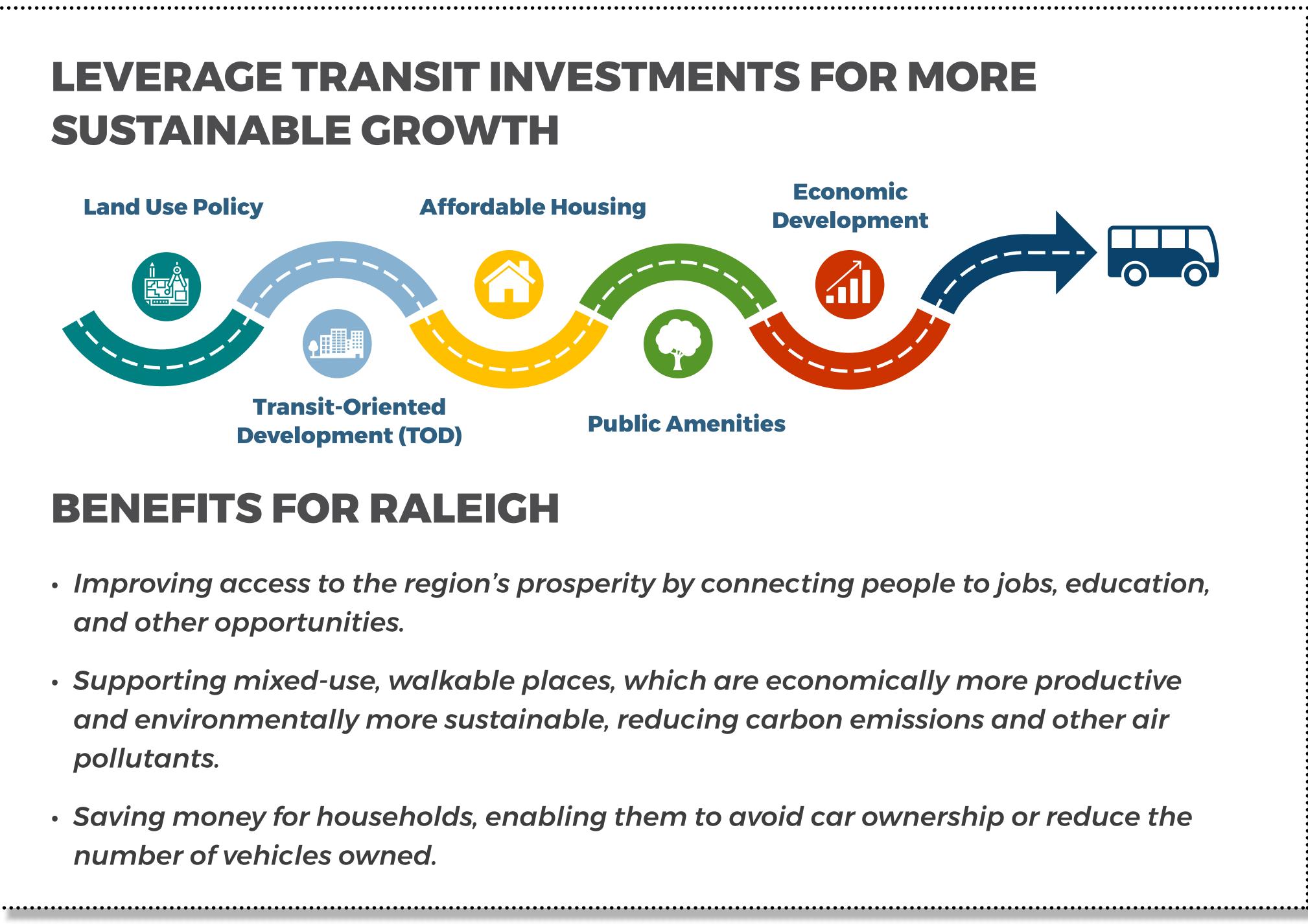
 Provides a space for growth without impacting existing neighborhoods Promotes economic development and can



**FOURPLEX APARTMENT** 122 Hillcrest, Raleigh, NC



# Bus Rapid Transit (BRT) TRANSIT SUPPORTIVE PLANNING



#### **Transit Increases Access to Jobs**



CTfastrak, Central Connecticut, CT

#### **Transit Reduces Travel Expenses**



Light rail, streetcar, bus, Portland, OR













### PLANNING AROUND TRANSIT IMPROVES SUSTAINABILITY **AND EQUITY**

#### **Transit Corridor Focuses and Accommodates Regional Growth**

Rosslyn-Ballston Metrorail corridor, Arlington, VA

#### Transit Can be Coordinated with Affordable Housing

BRT, light rail, commuter rail, Denver, CO











#### **Transit Spurs Economic Growth**

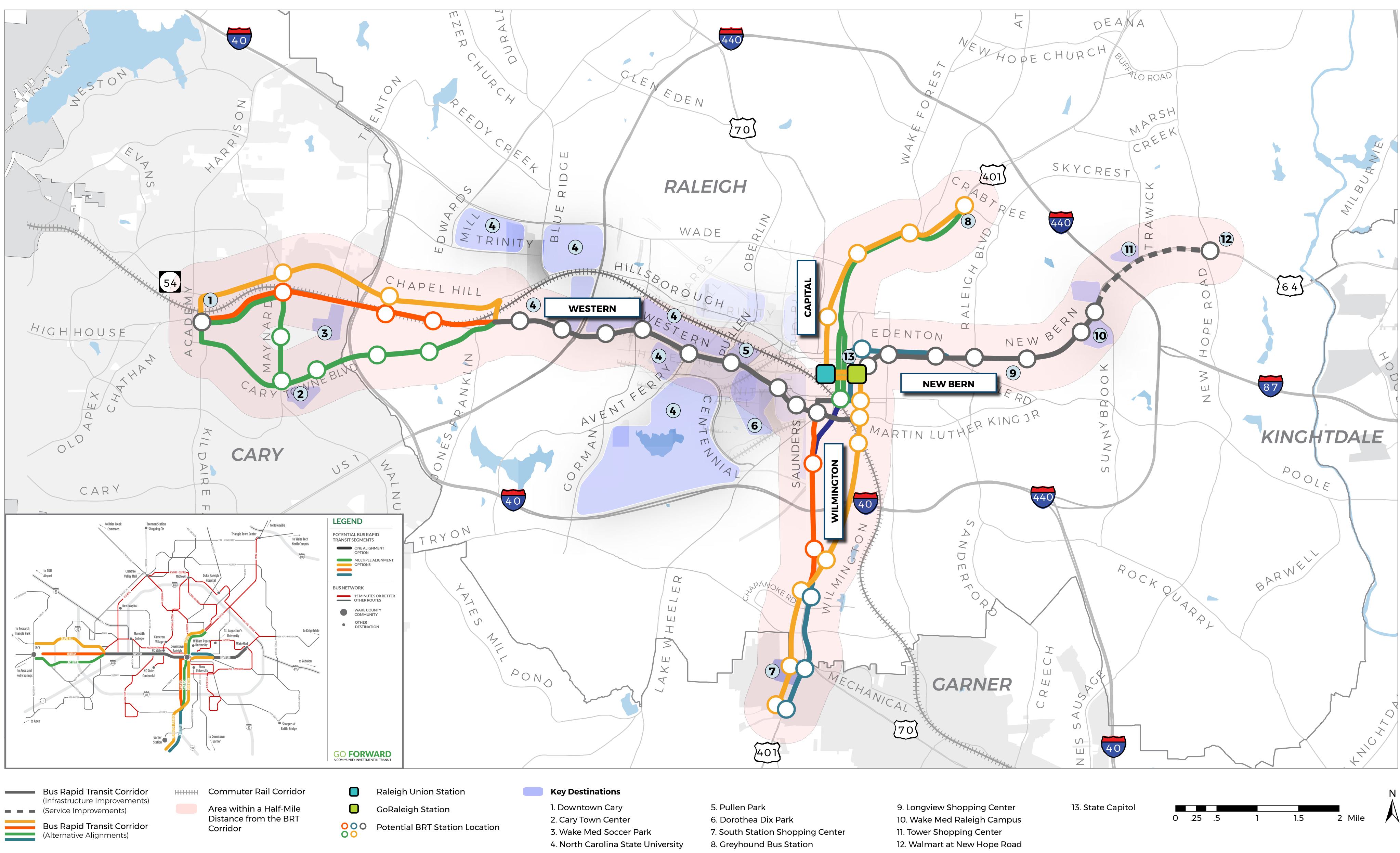
Health Line, Cleveland, OH

#### **Transit Reduces Carbon Footprint and Promotes Health**

Health Line, Cleveland, OH



# Bus Rapid Transit (BRT) WAKE BRT CORRIDORS





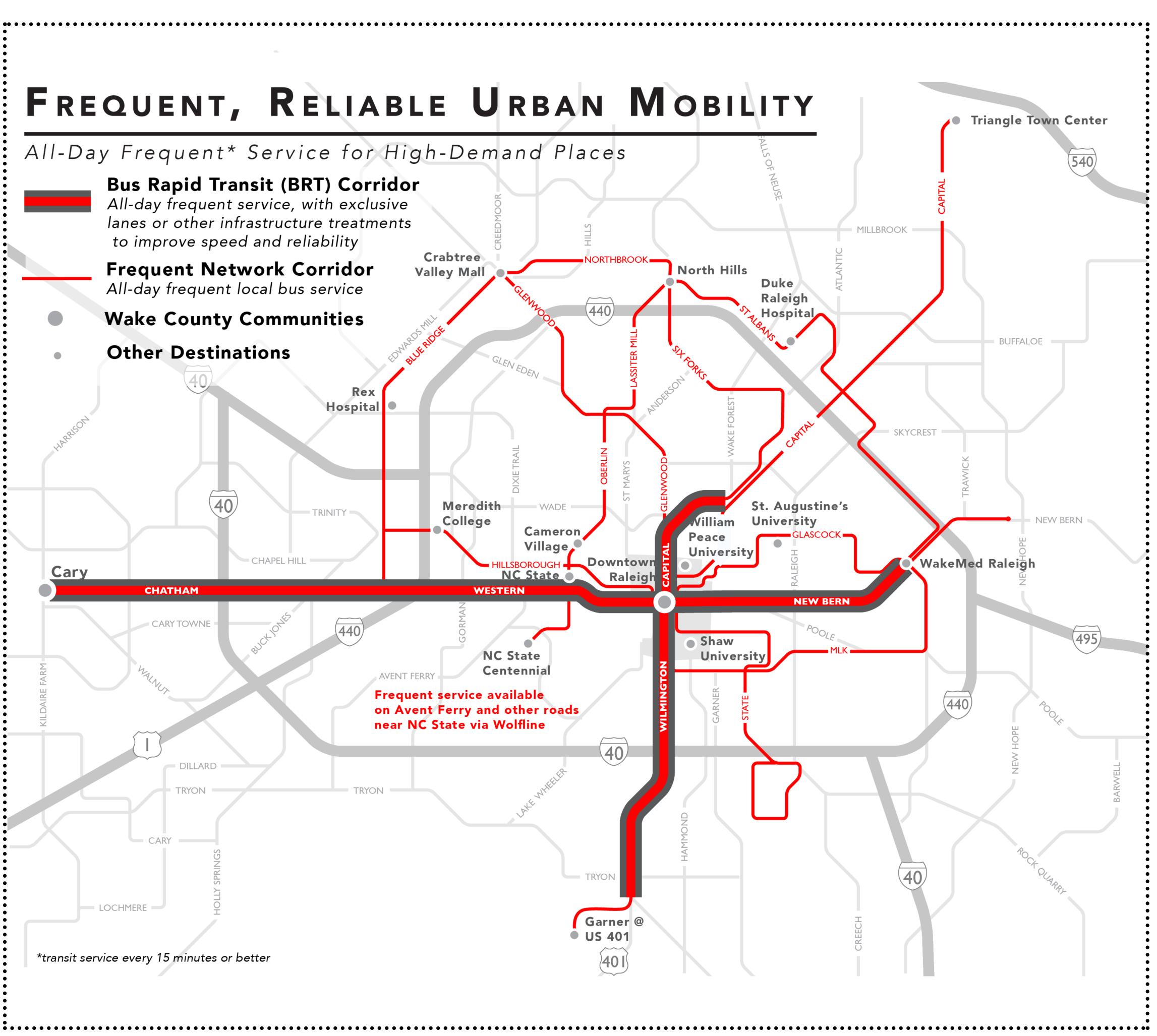


# Bus Rapid Transit (BRT) HOW DID WE GET HERE?



### WAKE TRANSIT PLAN

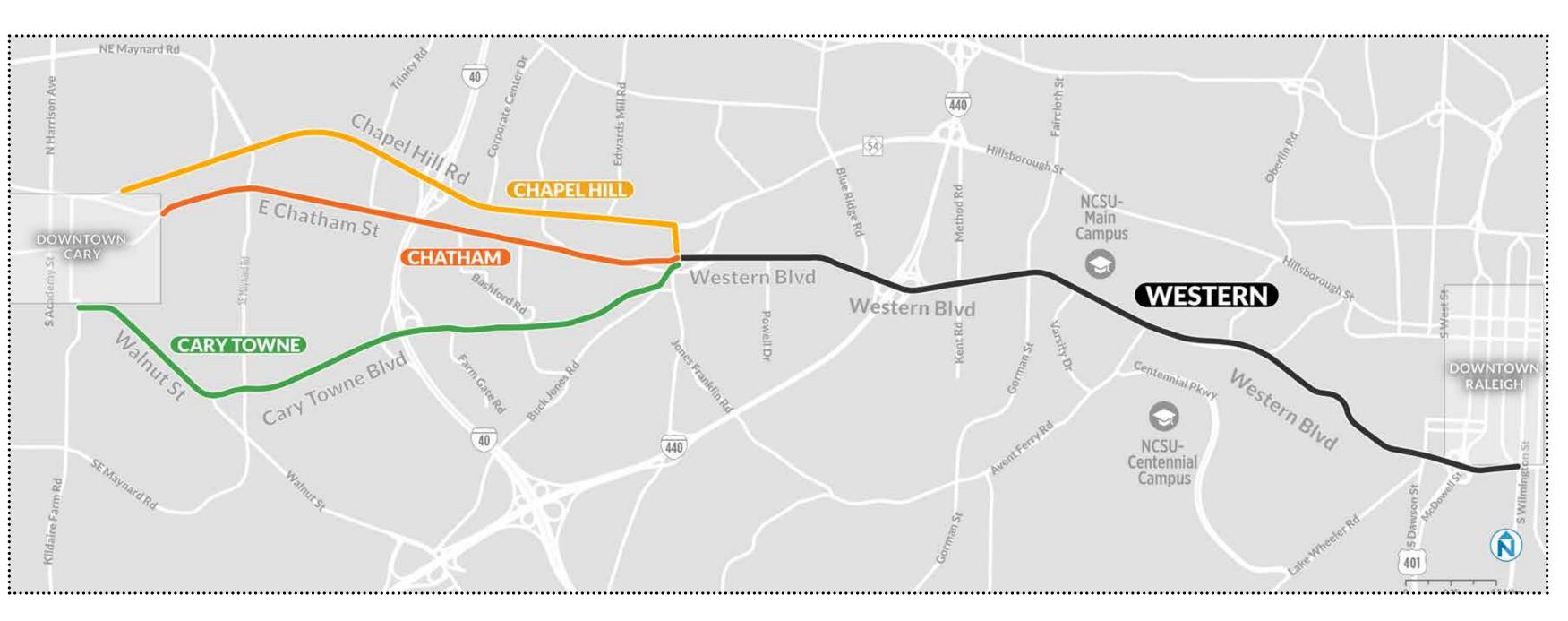
Wake County residents voted in favor of the Wake Transit Plan in November 2016. The Plan recommends 20 miles of BRT infrastructure to be implemented along four (4) corridors in Wake County to provide frequent and reliable urban mobility.



## 2017/2018

### **MAJOR INVESTMENT STUDY**

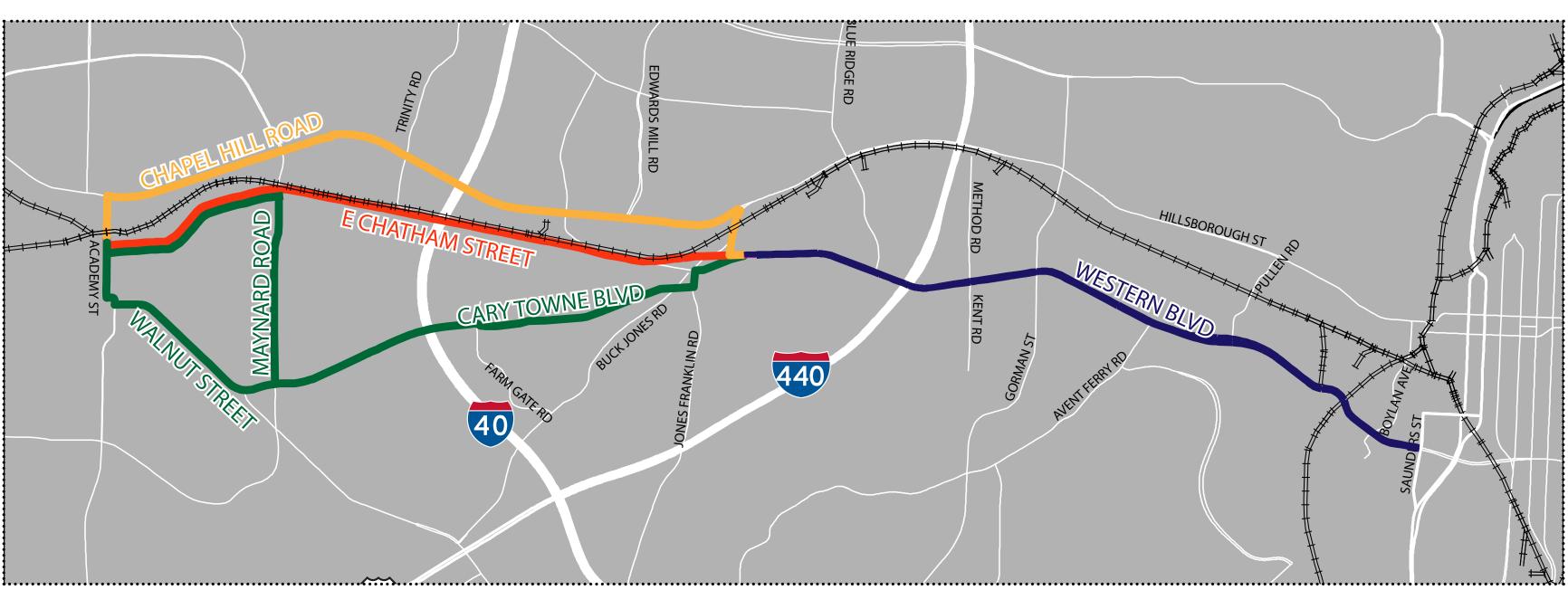
The Major Investment Study (MIS) gathered and analyzed information to identify a single alignment alternative from Downtown Raleigh to Jones Franklin Road. West of Jones Franklin Road the MIS study identified three alignment alternatives for serving Cary.







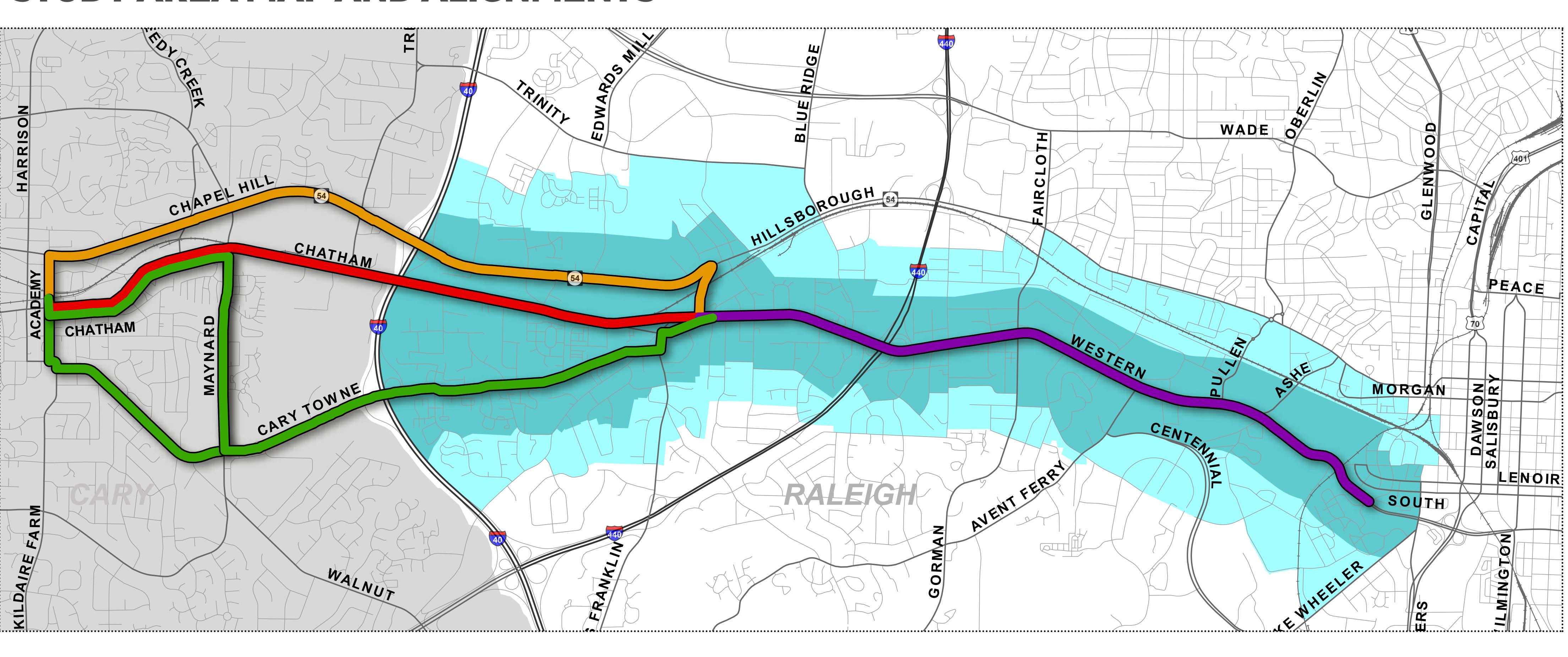
This study will help identify a preferred BRT alternative alignment along the Western Boulevard Corridor. Comments from the MIS and recently proposed developments provided the opportunity to reanalyze the alignments from the MIS. This analysis will include an additional alignment along Cary Towne Boulevard and Maynard Road to serve more residential and commercial areas.











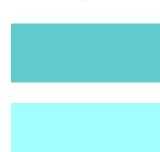
#### Wake BRT: Western Boulevard Corridor Alignments

- Western Boulevard
- Chapel Hill Road
- Chatham Street / Hillsborough Road
- Western Boulevard Extension / Cary Towne Boulevard

\*A land use study for the Cary portion of the BRT Corridor will be completed after selection of a preferred route.

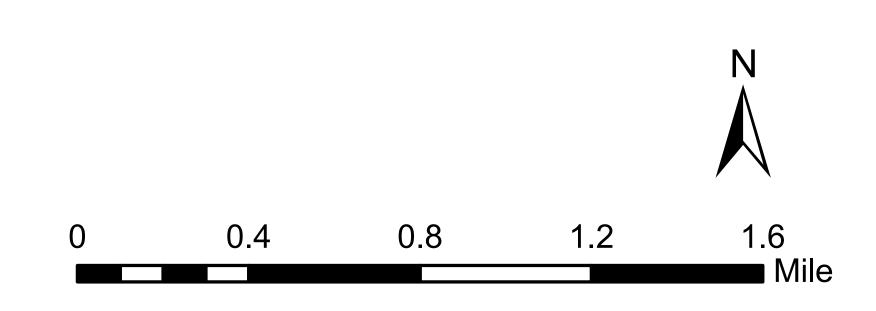
## **STUDY AREA MAP AND ALIGNMENTS**

### **City of Raleigh Study Area**



1/4 Mile Properties (5-minute walk) 1/2 Mile Properties (10-minute walk)





### **PROJECT PURPOSE**

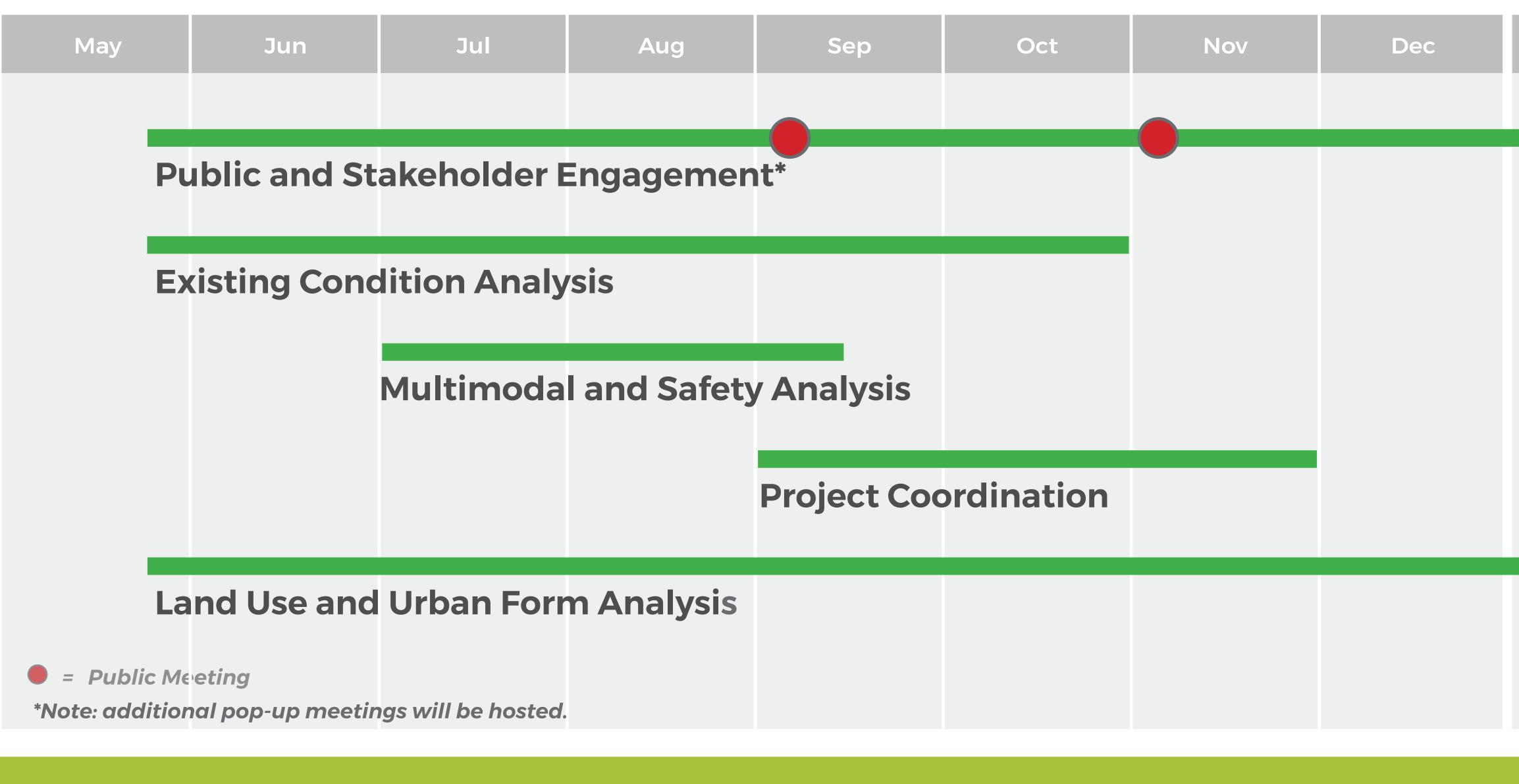
Find the best way to integrate BRT along Western Boulevard to connect Downtown Raleigh, NC State University, and Downtown Cary.

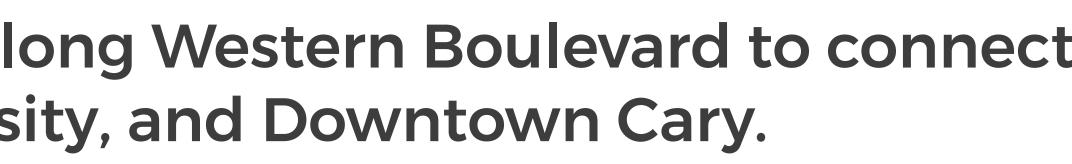
### **PROJECT GOALS**

- Identify preferred BRT alternative alignment
- Understand the transit oriented development potential
- Develop land use strategy
- Coordinate with other active projects

### **PROJECT SCHEDULE**

#### 2019





### WHAT TO EXPECT DURING EACH TASK?

#### **PUBLIC INVOLVEMENT**

- 4 Rounds of Public Meetings
- 10 Stakeholder Meetings

#### **EXISTING CONDITIONS**

- **Critical Issues**
- **Refine BRT Alignment Alternatives**

#### LAND USE & URBAN FORM ANALYSIS

- Market Analysis
- Land Use Capacity Analysis
- Transit Oriented Development Strategy

#### 2020

Jan	Feb	Mar	Apr	May	Jun	•••••
					STUDY ADO	PTION



Pop-up and other public events

#### **MULTIMODAL ANALYSIS**

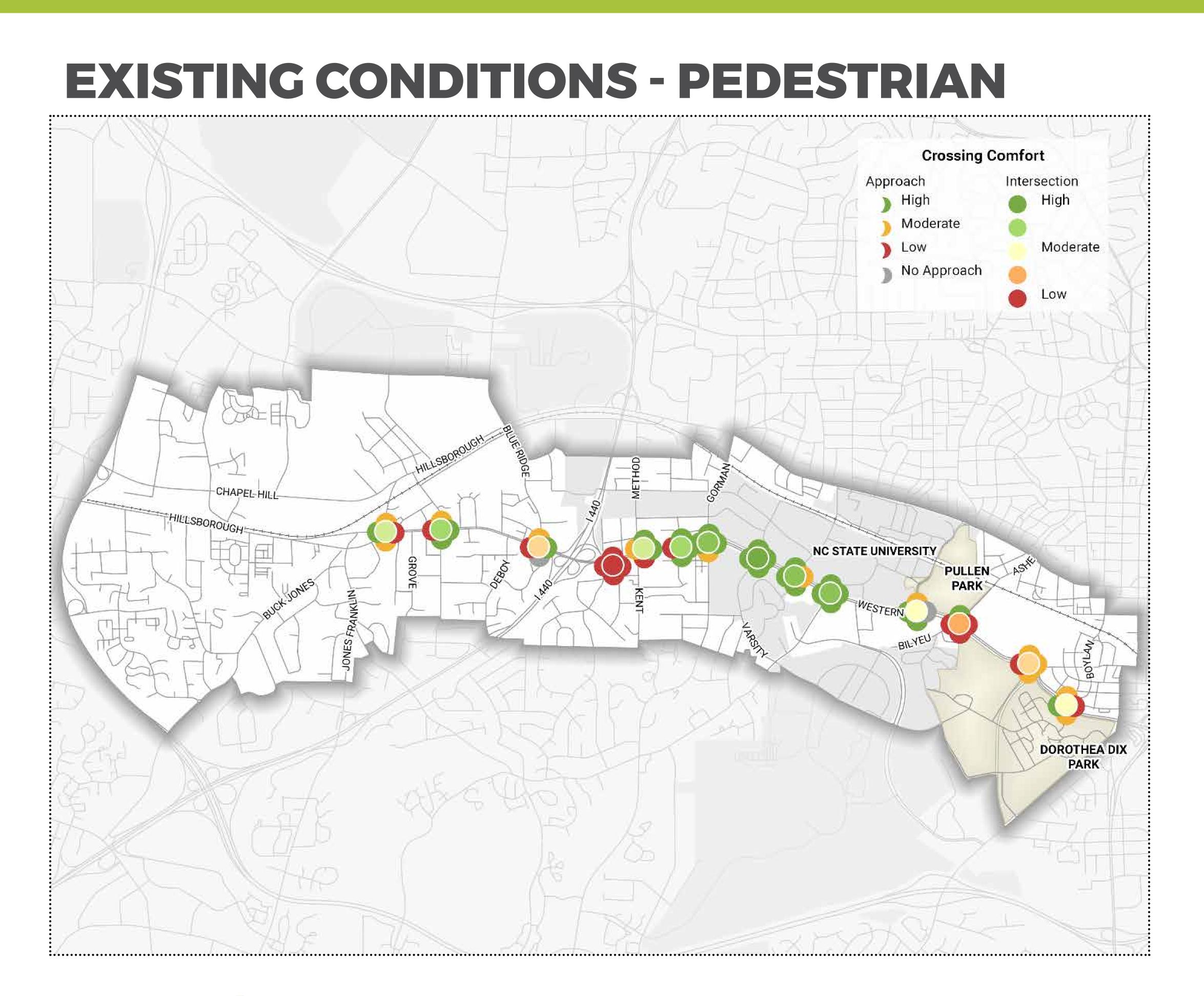
- Transit Analysis
- Pedestrian & Bicycle Inventory
- Multimodal Safety Analysis

#### **PROJECT COORDINATION**

 Coordination with other active and planned projects along the corridor.

2021



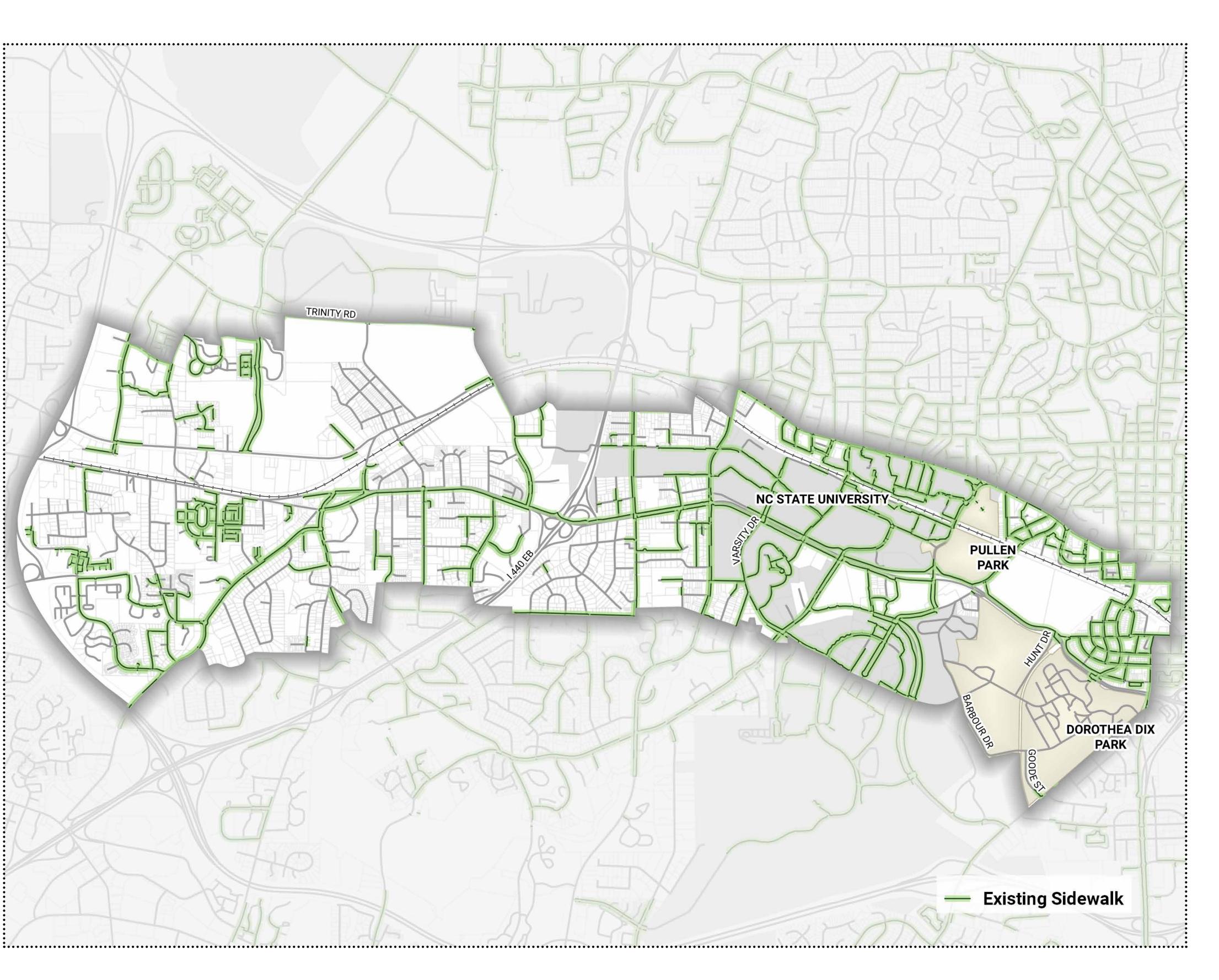


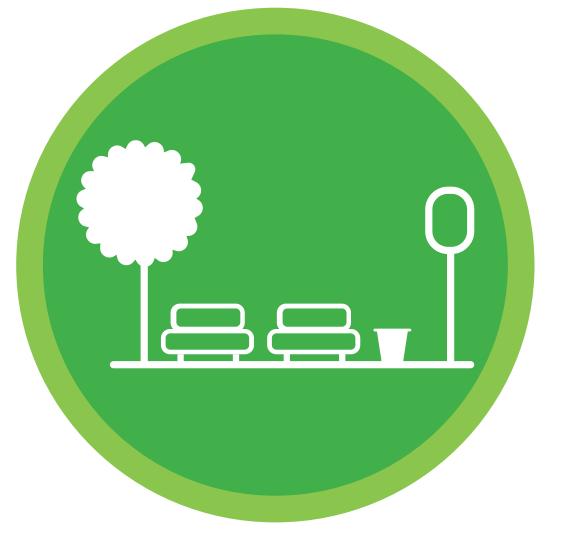


### **CROSSING COMFORT CRITERIA**

- Traffic signals
- Number of lanes

 Median and curb ramps Crosswalk style and condition





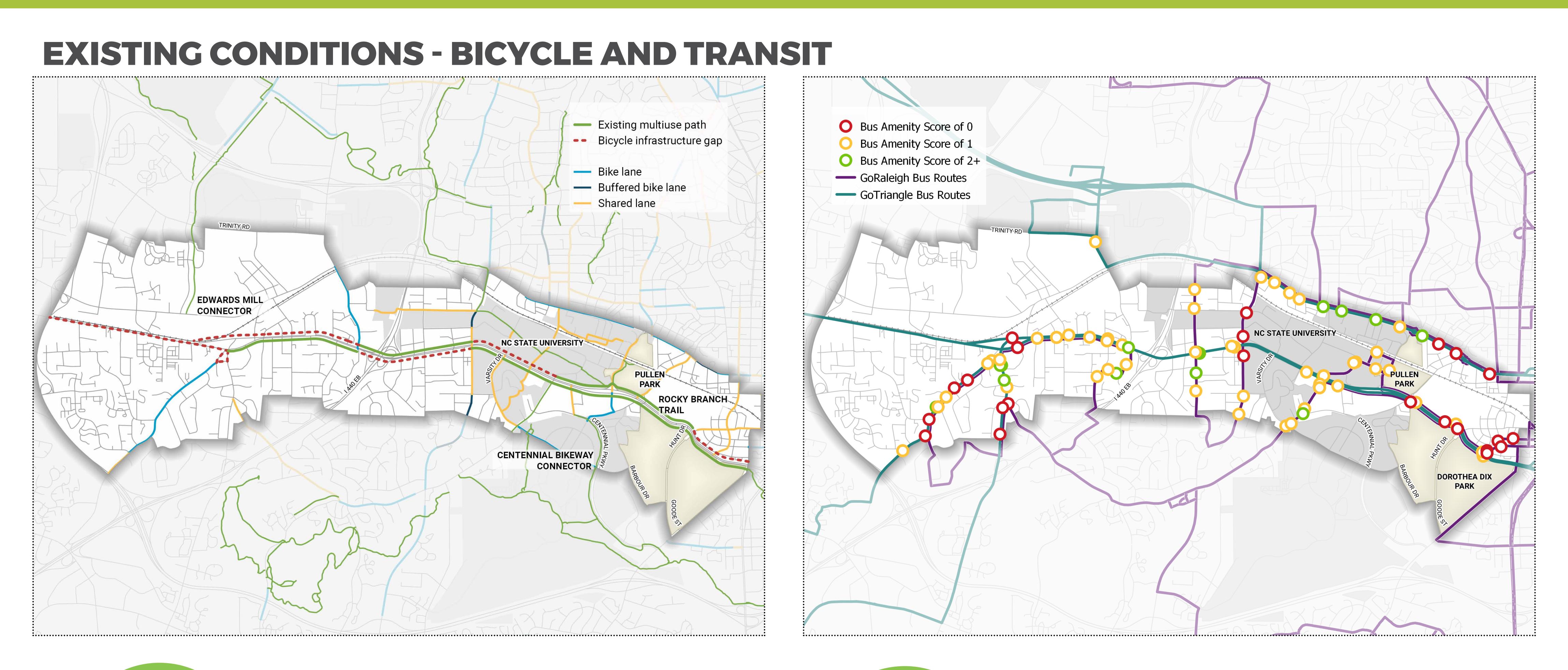
## **EXISTING SIDEWALK CONDITIONS:**

- sides of the street
- continue across Western Boulevard



Much of the corridor has sidewalks on both

Sidewalks on multiple cross streets do not





## **EXISTING MULTIUSE PATHS AND BICYCLE INFRASTRUCTURE:**

- of I-440

 Multiuse paths currently exist along much of Western Boulevard Infrastructure gaps exist mainly west

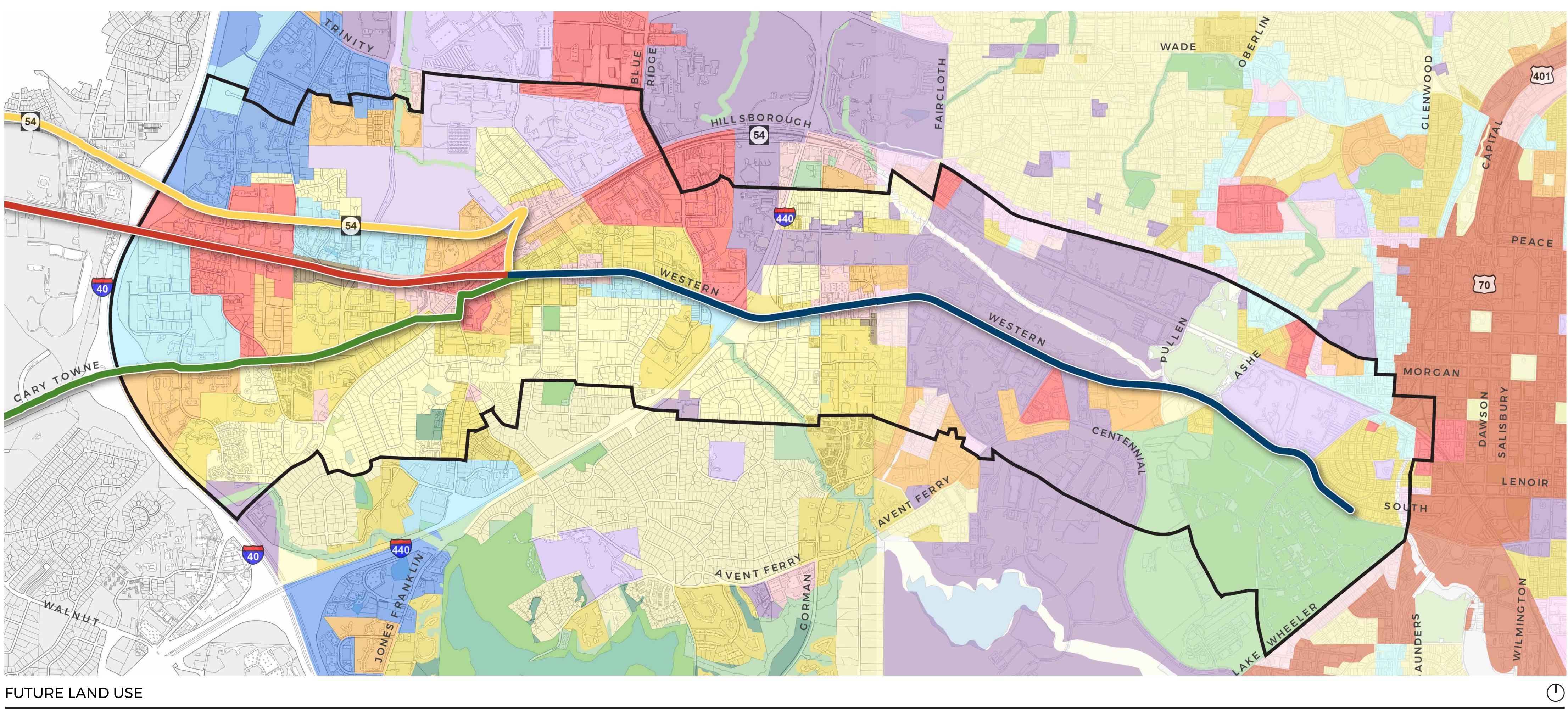


### **BUS AMENITY SCORES:**

- Shelter
- Bench
- Lighting
- Sidewalk connection to neighborhood, business, or community destinations



## FUTURE LAND USE



Low Density
Moderate Density
Medium Density
High Density

#### MIXED USE

Office + Residential Mixed Use
Neighborhood Mixed Use
Community Mixed Use
Regional Mixed Use
Central Business District

	OTHER		ALIGN	ЧE
e		Institutional		We
		Office/Research&Development		Cł
		Public Parks + Open Space		Ch
				We

#### **1ENTS**

Western Boulevard

Chapel Hill Road

Chatham Street / Hillsborough Road

Western Boulevard Extension/CaryTowne Boulevard



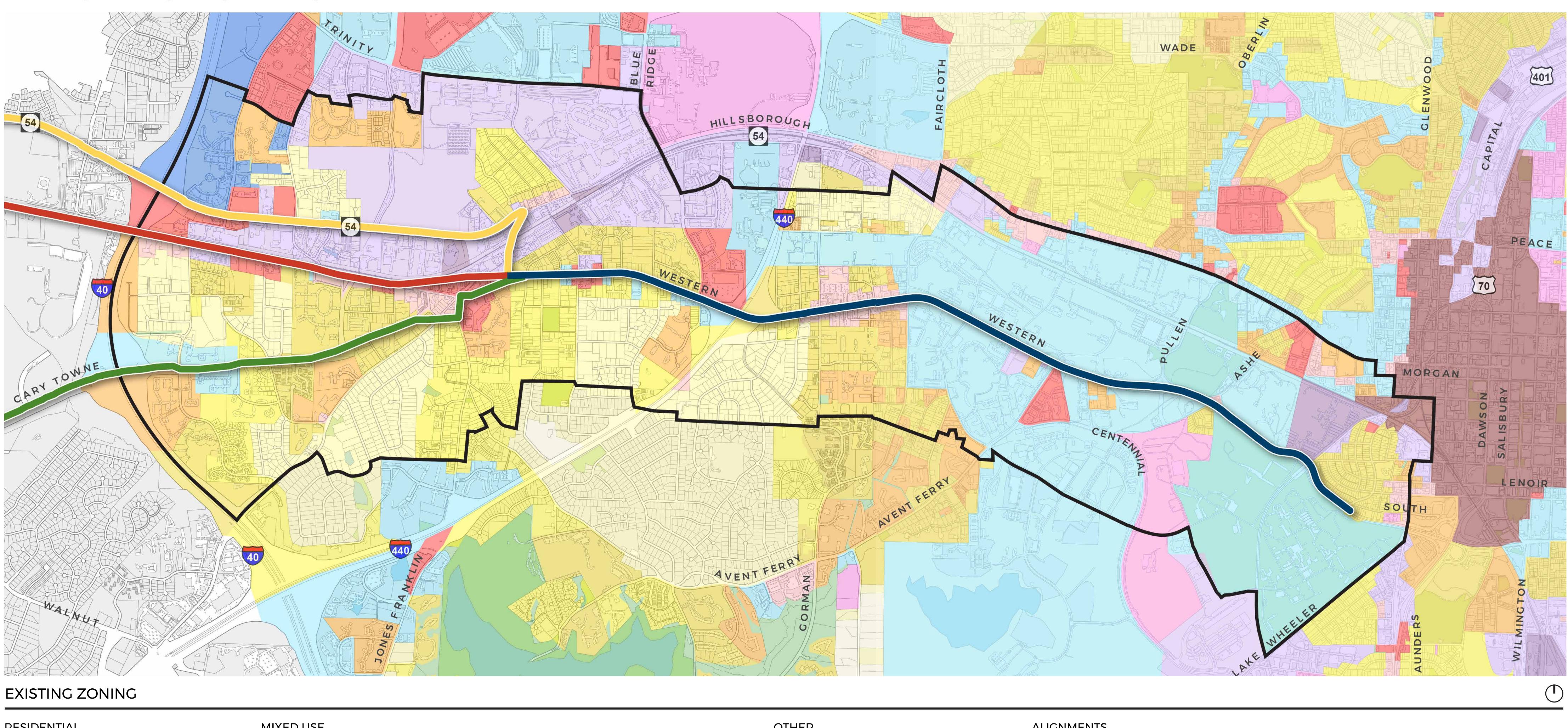
Study Area Scale: 1:30,000 0 312.5 625

1,250 2,500

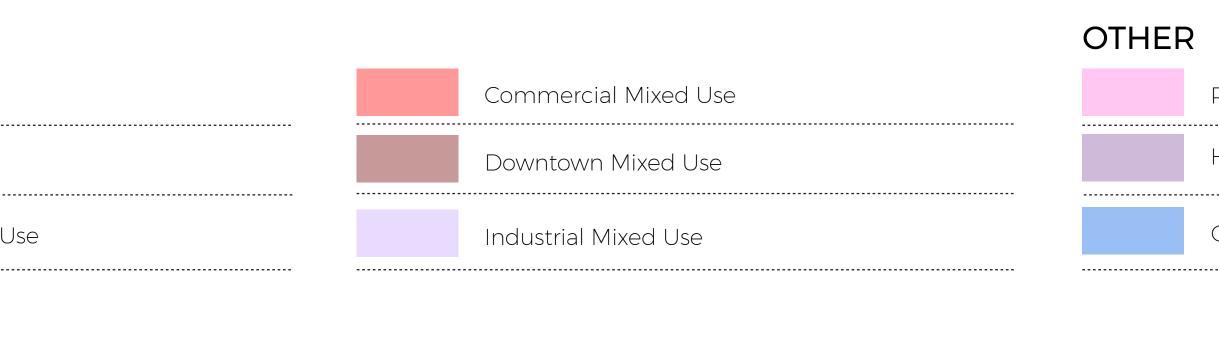
raleighnc.gov/BRT

5,000

## **EXISTING ZONING**



RESIDENTIAL		MIXED USE		
		R - 4		Residential Mixed Use
		R - 6		Office Mixed Use
		R - 10		Neighborhood Mixed U



#### Planned Development

Heavy Industrial

Office Park

#### ALIGNMENTS

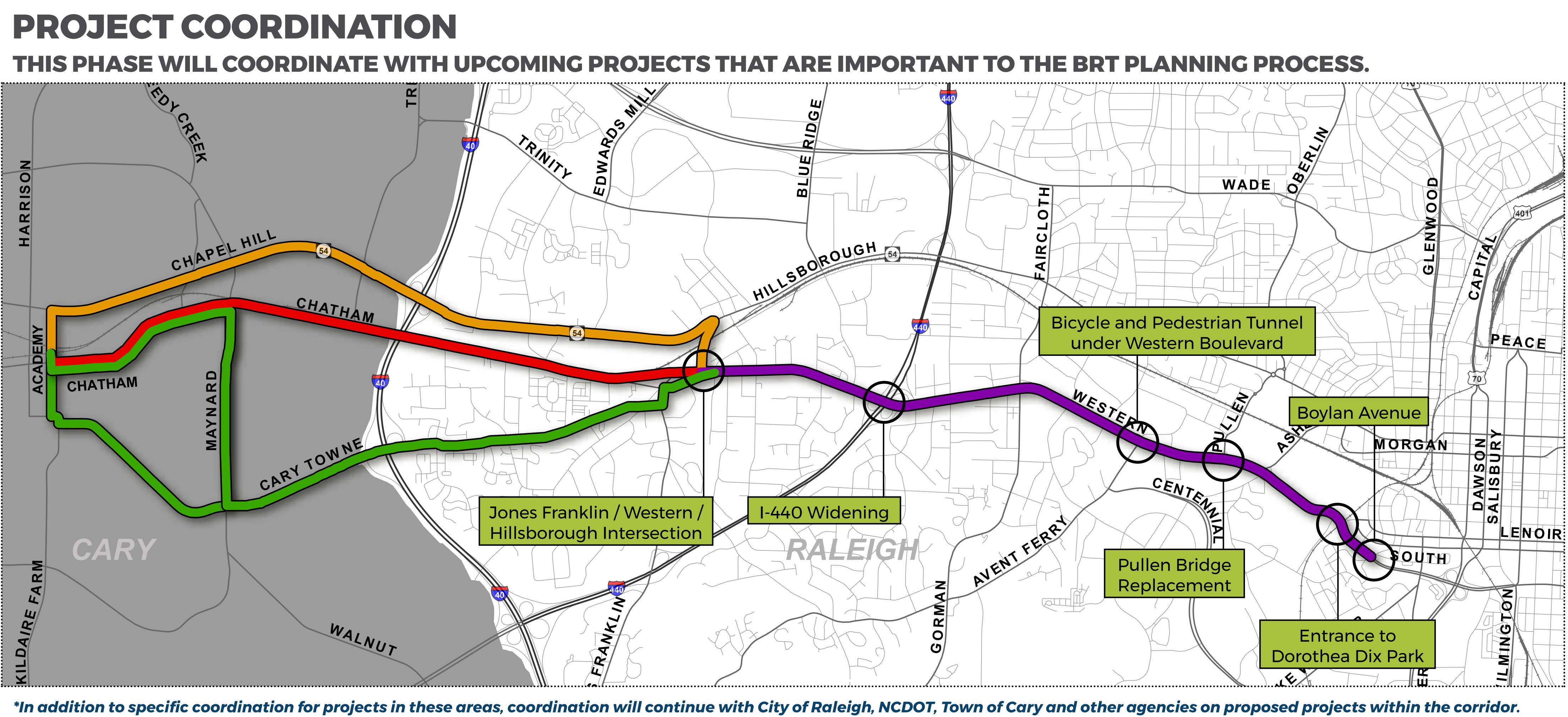
Western Boulevard
Chapel Hill Road
 Chatham Street / Hillsborough Road
Western Boulevard Extension/CaryTowne Boule



Study Area . . . . . . . . . . . . . Scale: 1:30,000 1,250 2,500 0 312.5 625 5,000

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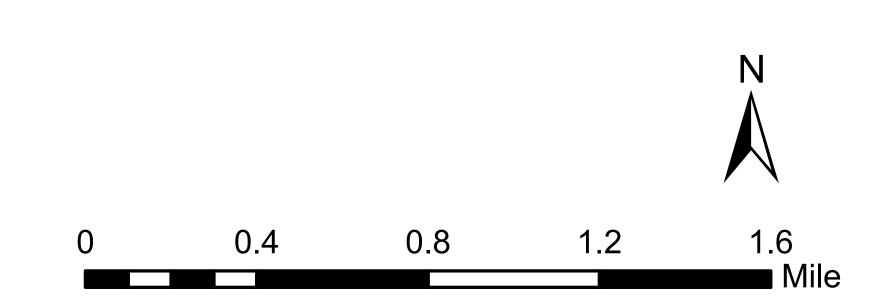




#### Wake BRT: Western Boulevard Corridor Alignments

- Western Boulevard
- Chapel Hill Road
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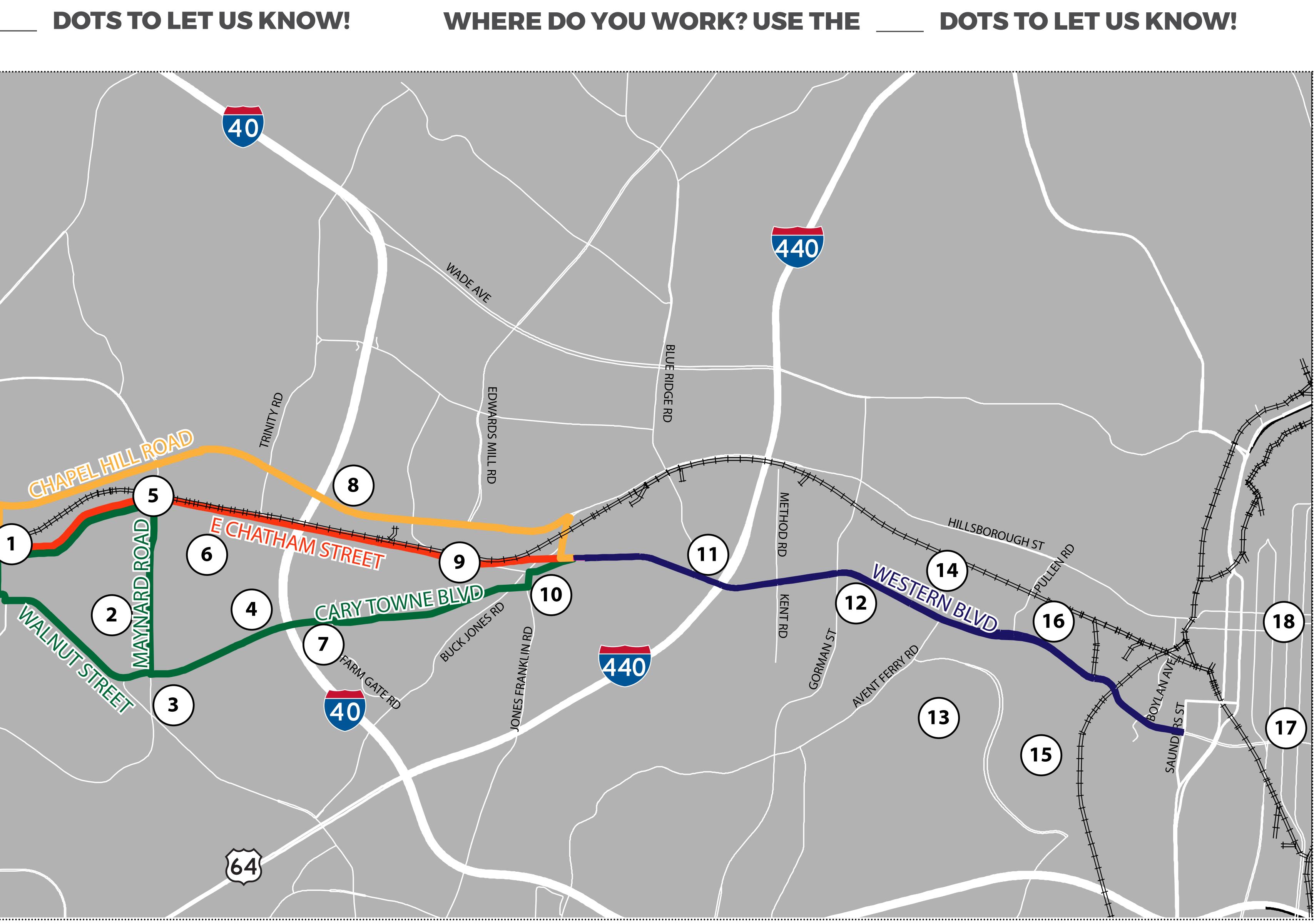




## Bus Rapid Transit (BRT) LET US KNOW!

### WHERE DO YOU LIVE? USE THE \_\_\_\_ DOTS TO LET US KNOW!

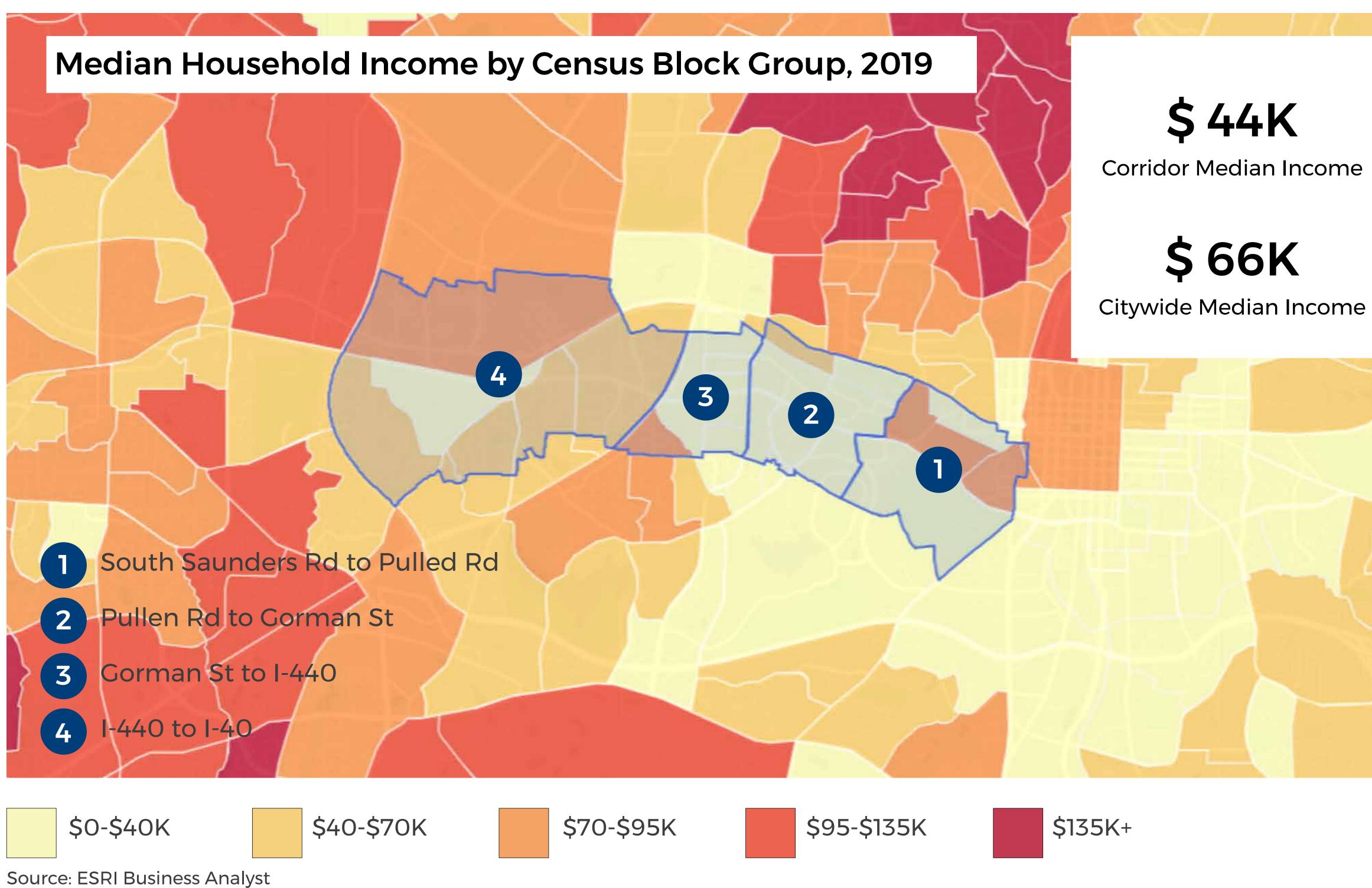
	•
KEY	
1. Downtown Cary	
2. East Cary Middle School	
3. Cary Towne Center	
4. Fenton Development	
5. Maynard Rd at Chatham St	
6. WakeMed Soccer Park	
7. Farm Gate Rd / I-40	
8. Corporate Center	
9. Vie at Raleigh/Republic at Raleigh	
10. Plaza West Shopping Center	
11. Old Kmart	
12. McKimmon Center	
13. NC State Centennial Campus	AQ
14. NC State Main Campus	
15. Dorothea Dix Park	
16. Pullen Park	S S
17. Shaw University	
18. Downtown Raleigh	<b>A</b>
Wake BRT: Western Boulevard Corridor Alignments	
Western Boulevard	
Chapel Hill Road	
Chatham Street /	
Hillsborough Road	
Western Boulevard Extension / Cary Towne Boulevard	

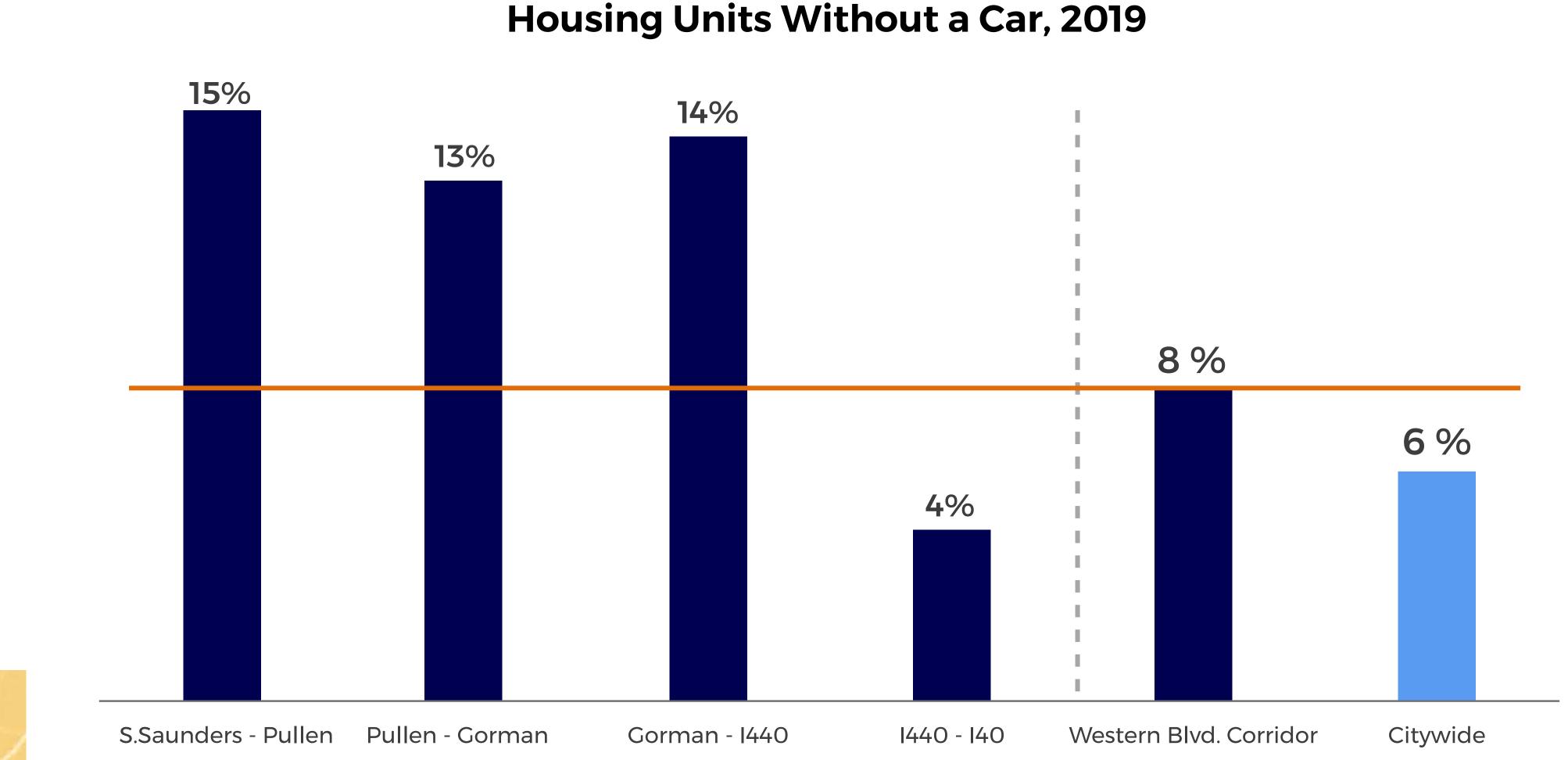




## **SOCIOECONOMIC TRENDS**

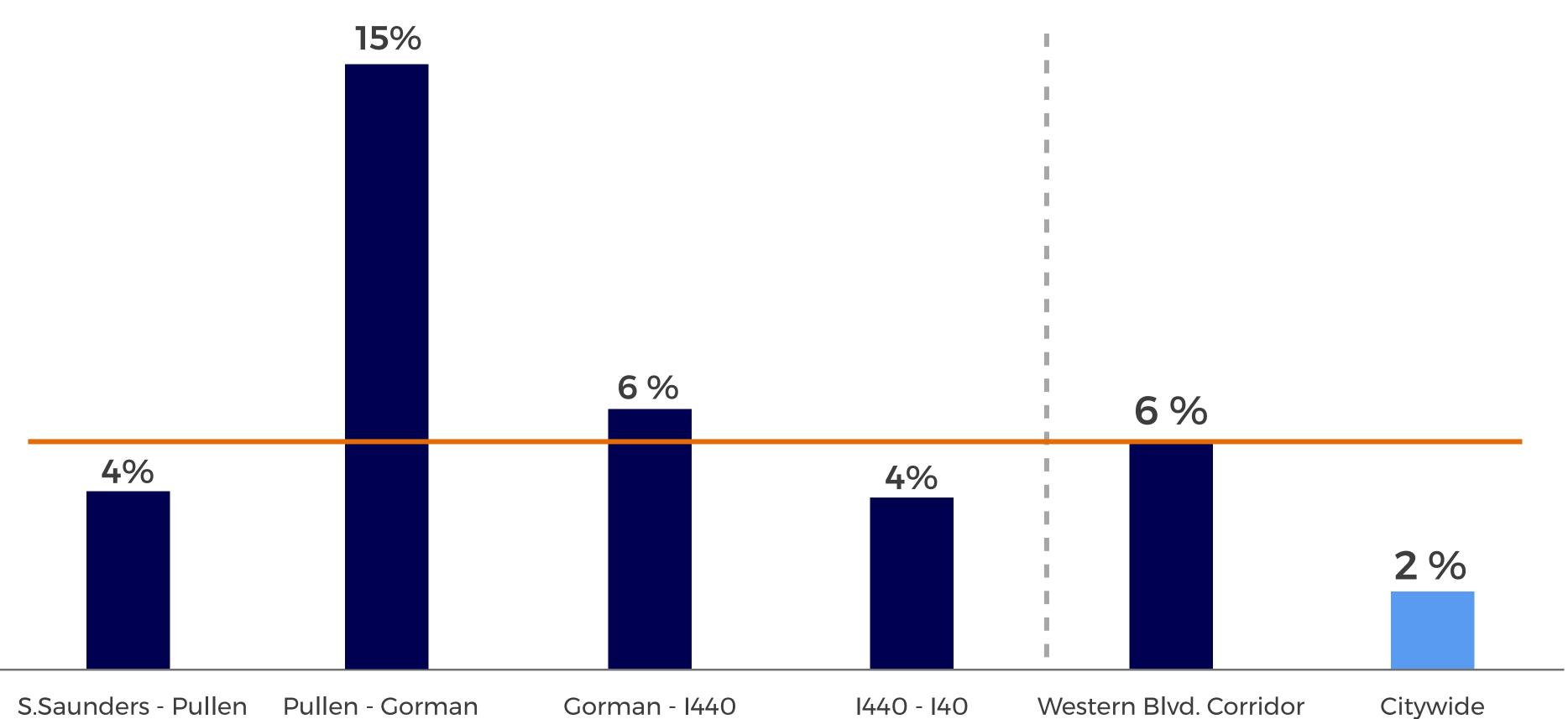
- Over 30,000 residents live within a ½ mile of the planned Western Boulevard BRT route.
- Nearly 50% of corridor residents are younger than 34 years old, with a median age of 24 years old compared to Raleigh's median age of 34.
- Median household income along the corridor is over \$20,000 less than the citywide median of \$66,000.
- Car ownership is significantly less common in three of the submarkets along the corridor compared to the city overall, and a higher percentage of corridor residents commute via bus.
- An affordable and reliable transportation alternative like BRT can provide an important mobility solution for residents along the corridor.





Source: ESRI Business Analyst



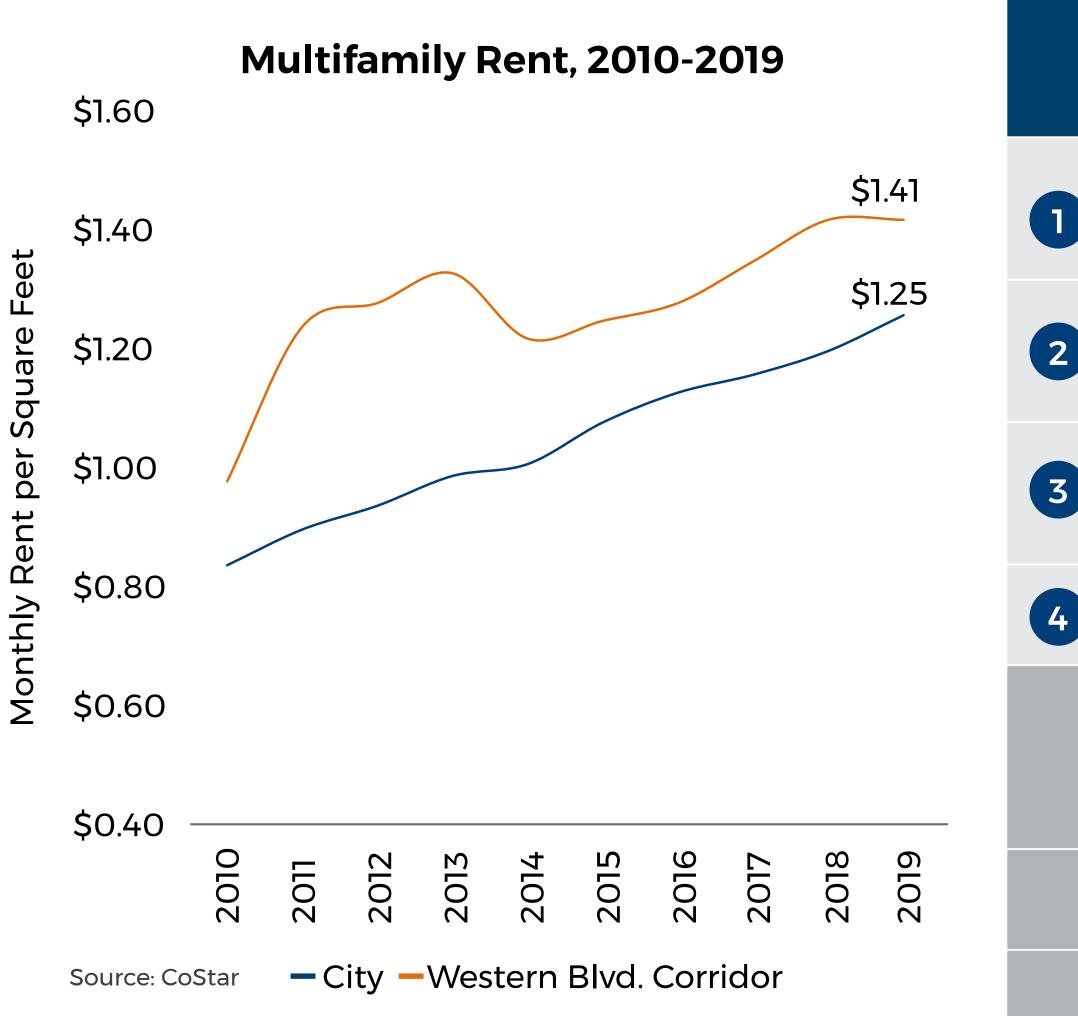


S.Saunders - Pullen Pullen - Gorman Source: ESRI Business Analyst

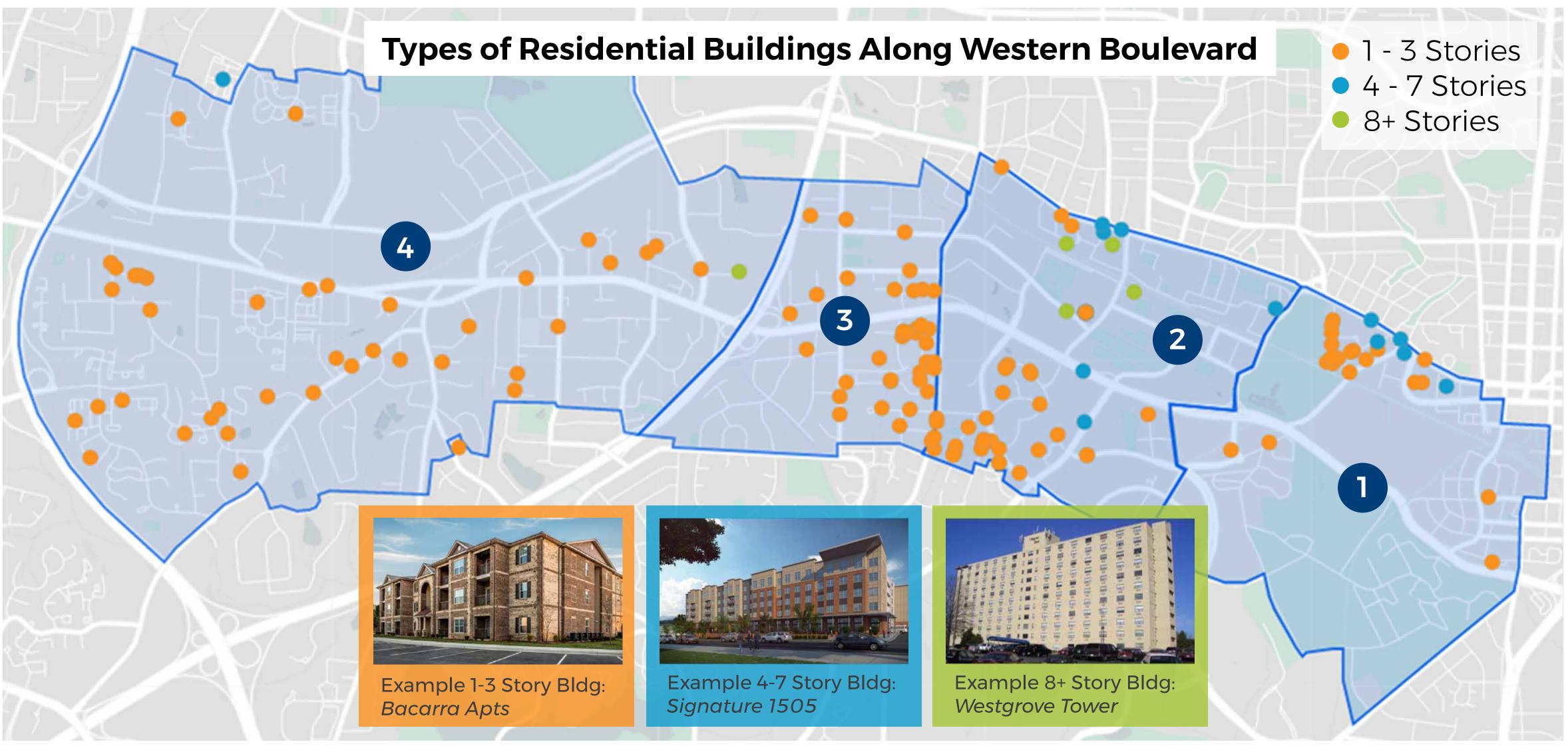


## **RESIDENTIAL TREND**

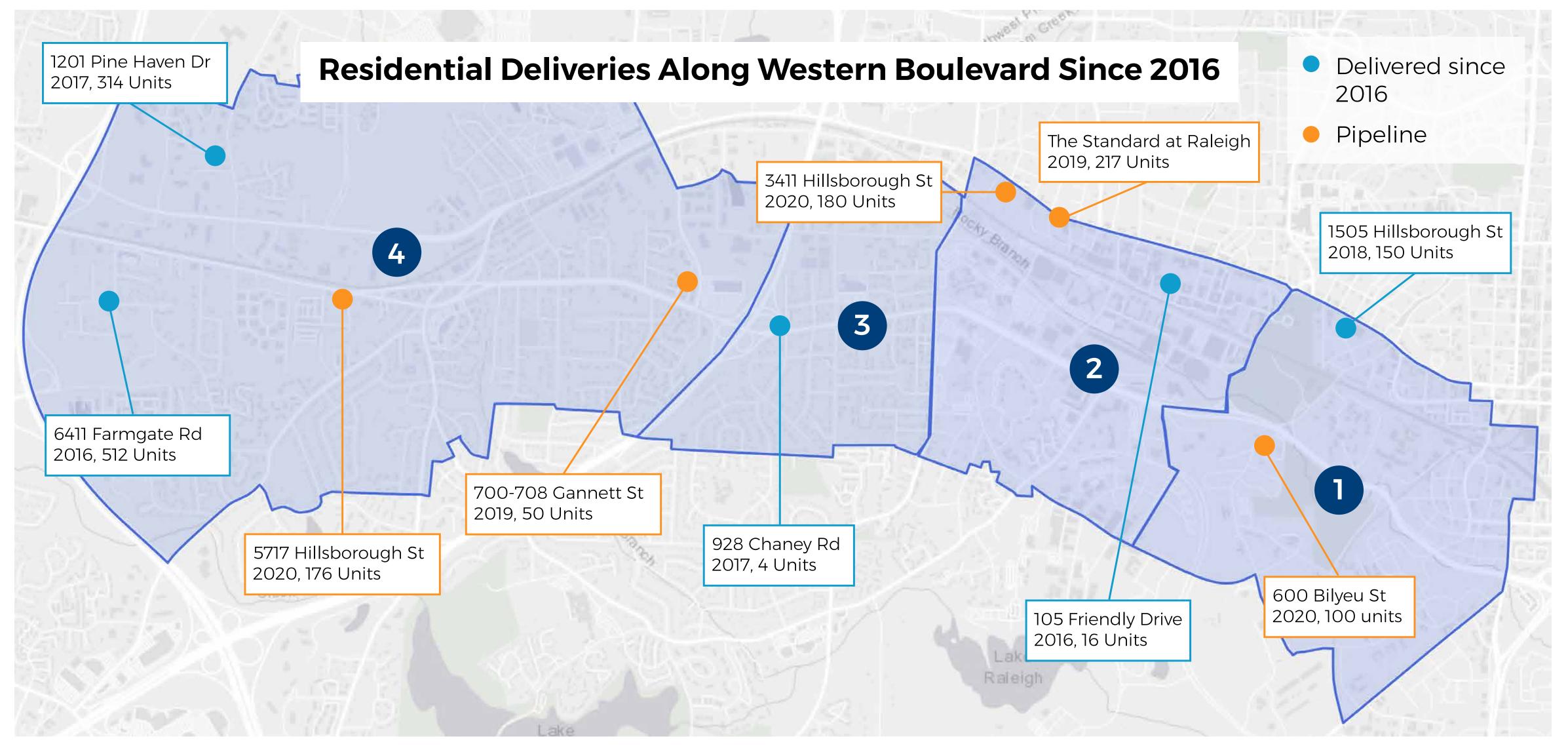
- Apartments along the corridor are typically 1-3 stories tall. Higher density apartments tend to be student housing near NC State University.
- Average monthly rents along the corridor are \$200 higher than the citywide average, brought up by high rents from residential properties near Downtown and NC State.
- In buildings farther from Downtown, the average monthly rent of all buildings is equal to or below the citywide average of \$1,200.
- Median home values along the corridor are \$14,000 higher than the citywide median of \$261,000, and are even higher closer to Downtown.
- BRT has the potential to encourage more housing along the corridor since enhanced mobility and investments around stations will be attractive to potential residents.
- Policies promoting equitable development are important to ensure that both current and new residents can benefit from the transit investment.



Submarket	Average Monthly Rent Per Unit	Median Home Value
S. Saunders – Pullen	\$1,560	\$365K
Pullen – Gorman	\$1,880	\$287K
Gorman – I440	\$930	\$224K
1440 - 140	\$1,220	\$201K
Western Blvd. Corridor	\$1,400	\$275K
Citywide	\$1,200	\$261K
Downtown	\$1,470	\$360K



Source: CoStar

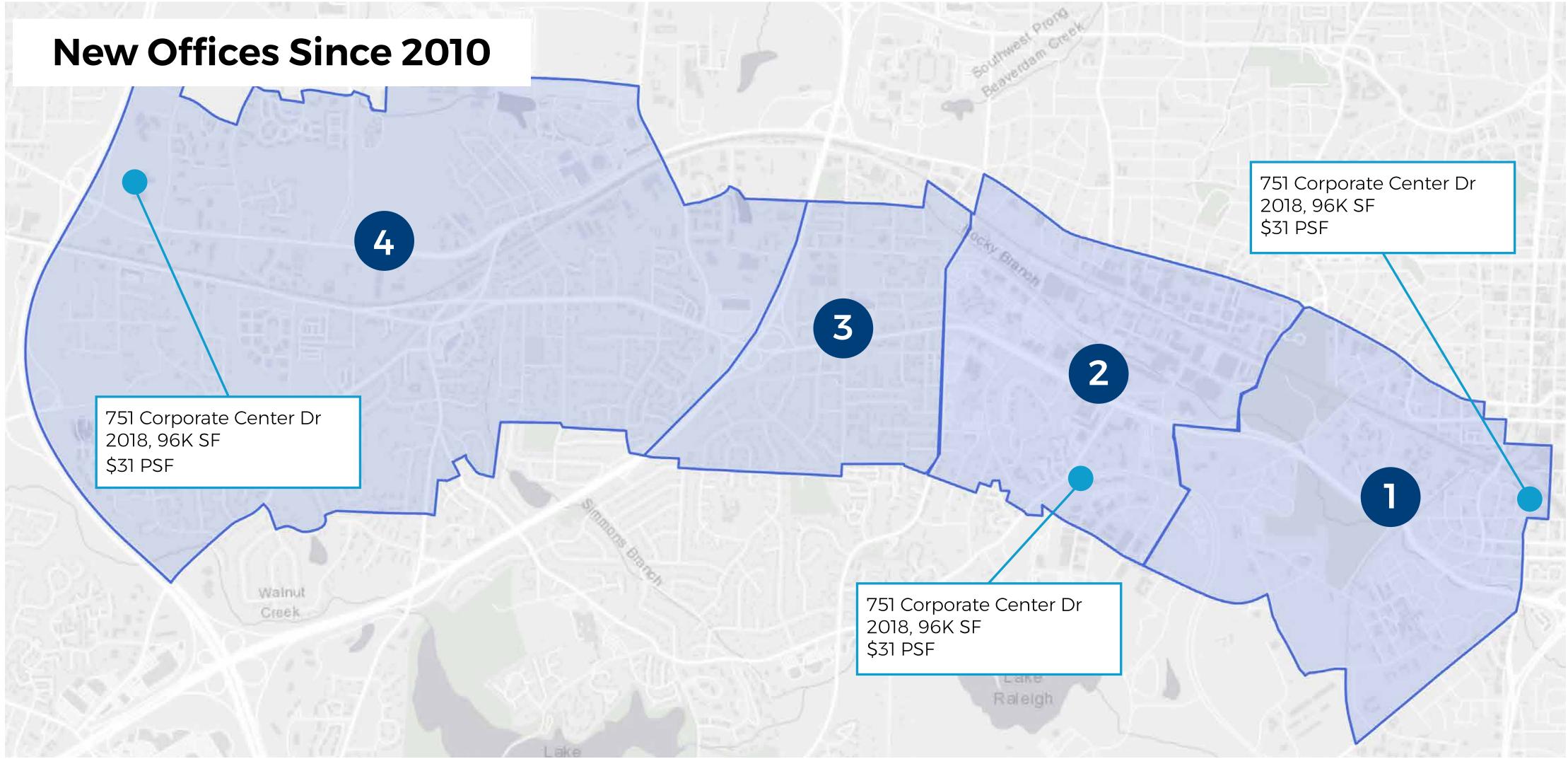


Source: CoStar



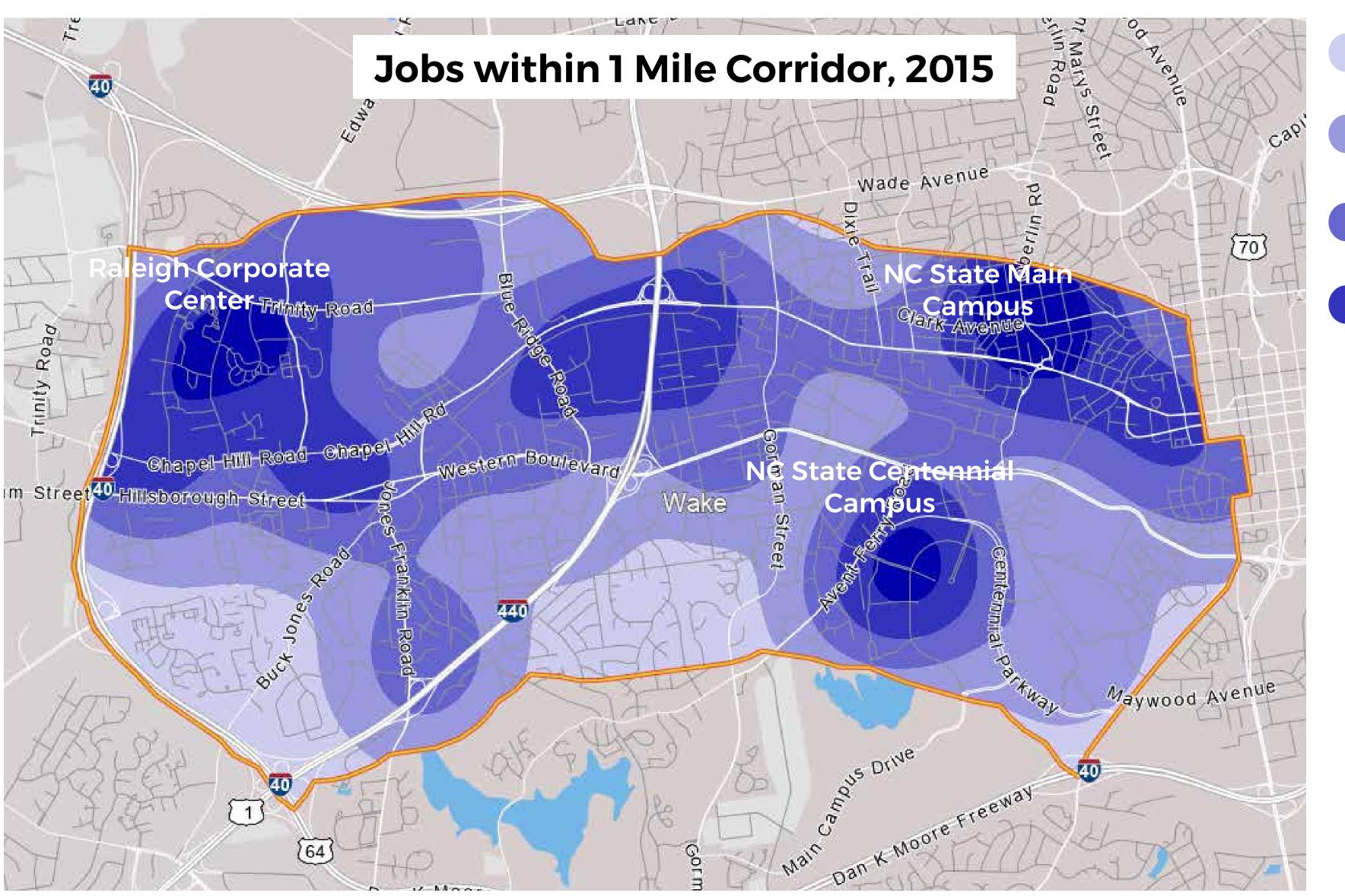
## **OFFICE TREND**

- construction.
- Recent projects cluster around NC State's Centennial Campus and the Raleigh Corporate Center office complex.
- Newer office buildings tend to be highly amenitized with rents well above the citywide average.
- BRT will likely encourage less office development than residential development given the lack of momentum for office uses on the corridor.
- With appropriate physical connections, BRT can make Centennial Campus and the Raleigh Corporate Center office complex more attractive.



Source: CoStar

• The office market along the corridor is limited in size and no new buildings are under



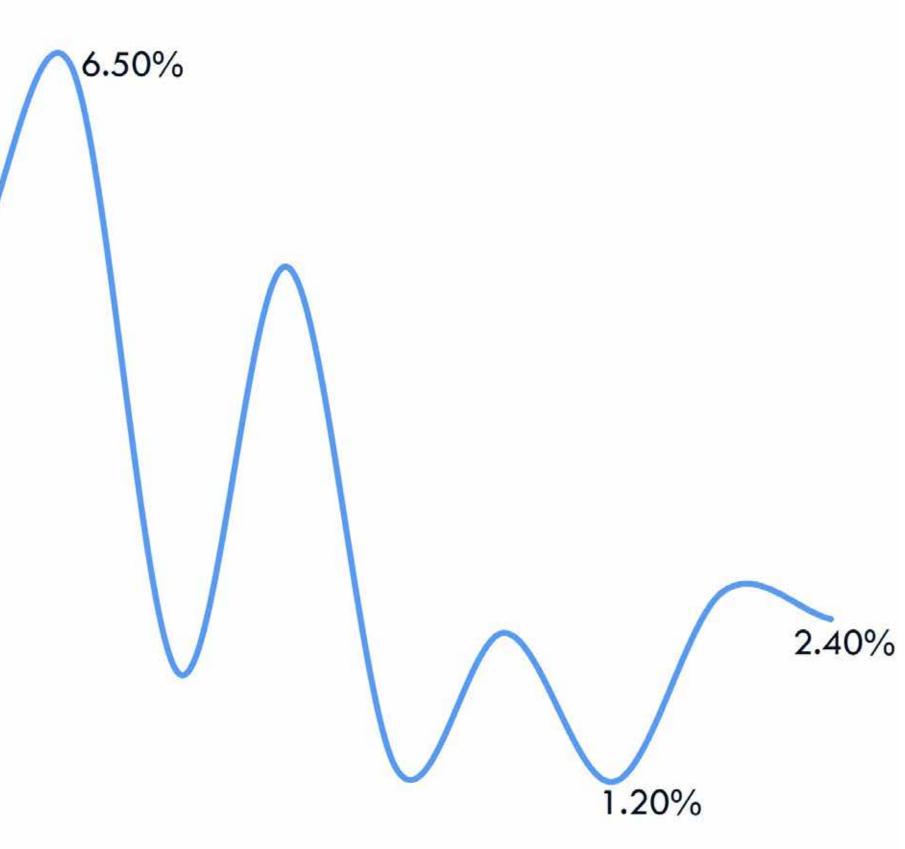
Source: LEHD OnTheMap

Submarket	Annual Office Rent Per Square Foot	7% 6%
<b>1</b> S. Saunders – Pullen	\$22.59	5.40% 5%
2 Pullen – Gorman	\$20.40	40.4
<b>3</b> Gorman – 1440	N/A	4%
4 1440 - 140	\$19.74	3%
Western Blvd. Corridor	\$20.87	2%
Citywide	\$25.21	1%
Downtown	\$33.79	0% 2010 2011
Source: CoStar	Source: CoStar	



- 6 69 Jobs
- 70 359 Jobs
- 360 1,129 Jobs
- 1,130 1,129 Jobs

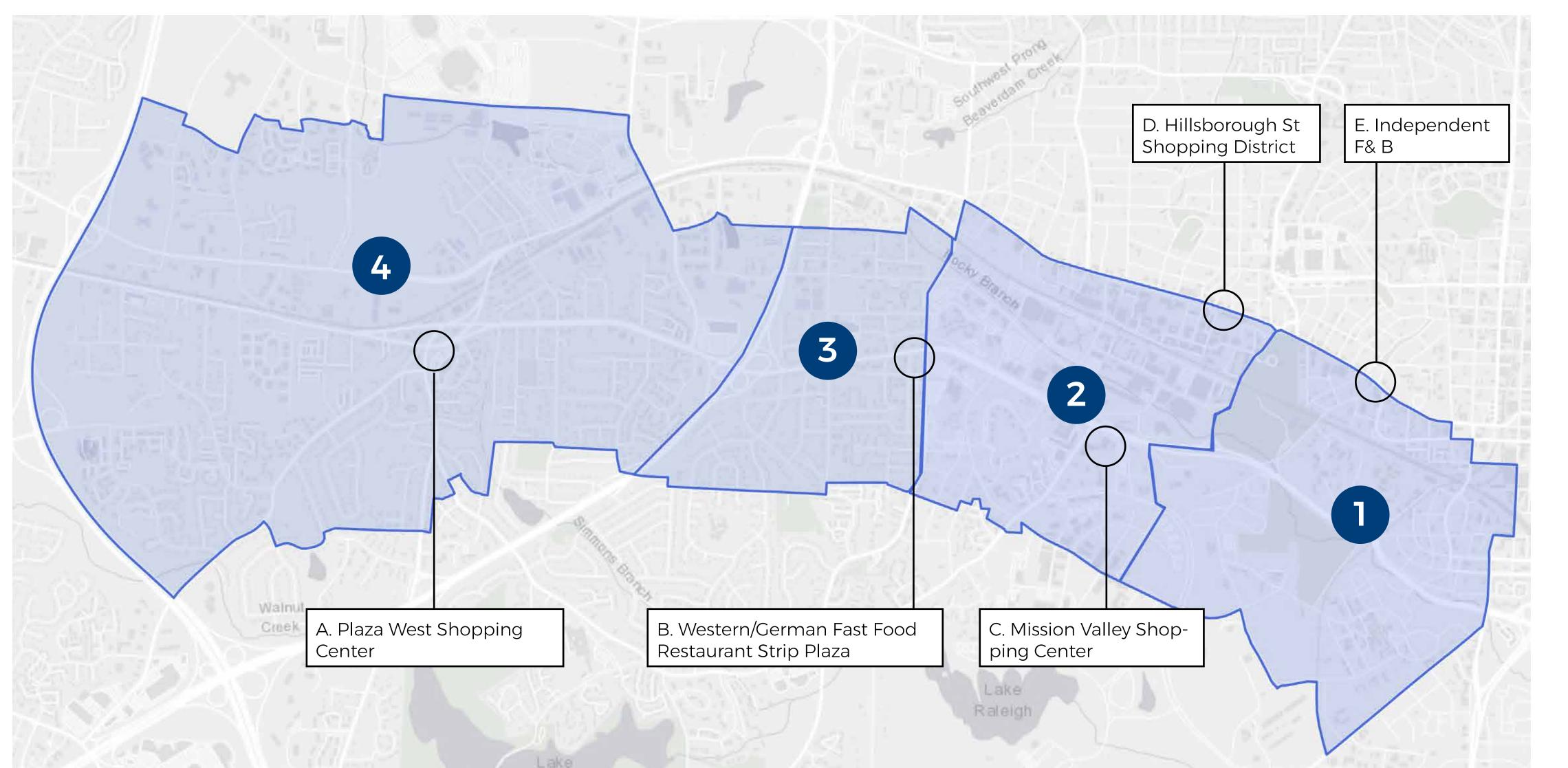
#### Office Vacancy, 2010-2019



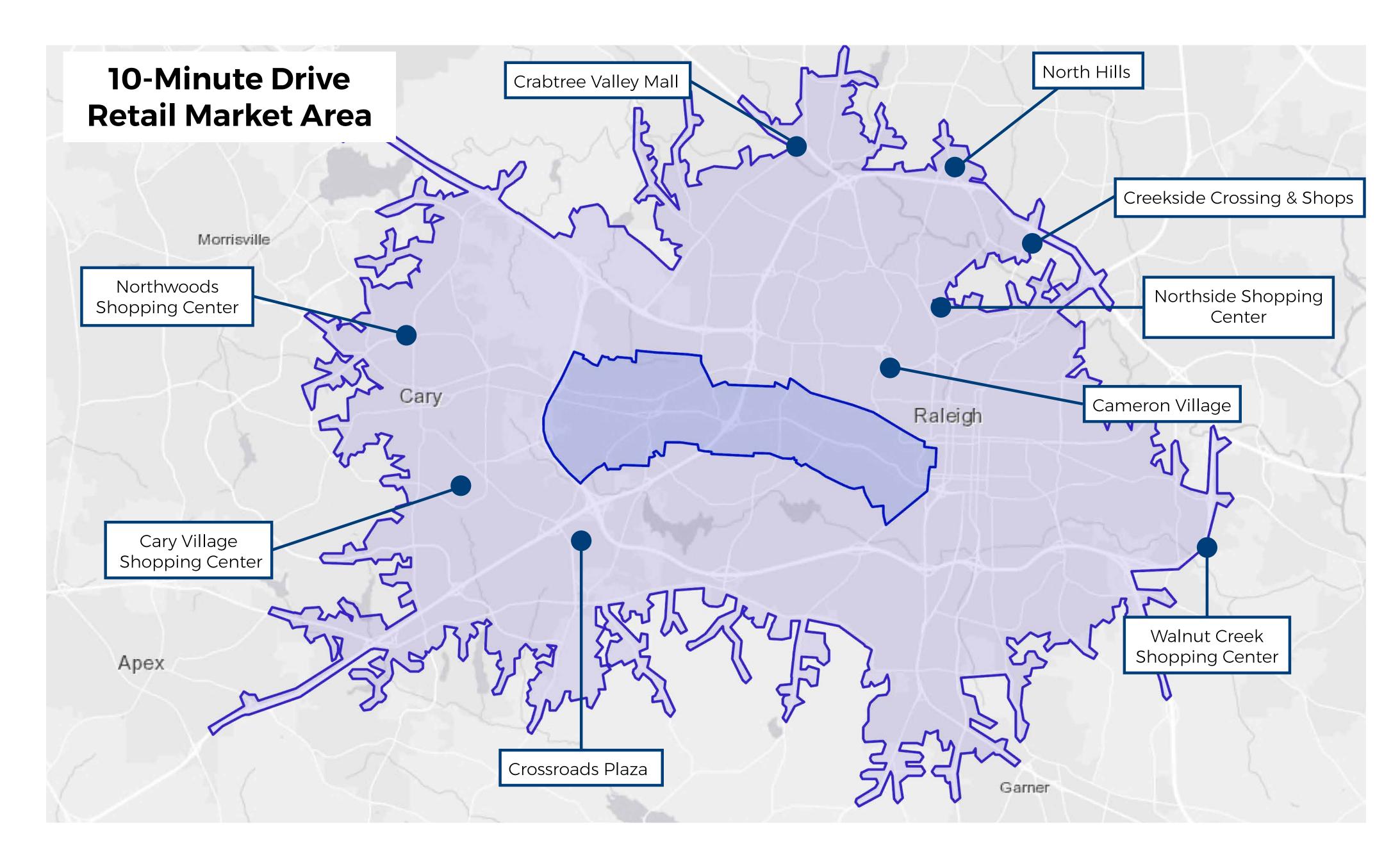
2012 2013 2014 2015 2016 2017 2018 2019

## **RETAIL TREND**

- There are three major retail clusters along Western Boulevard itself: Mission Valley Shopping Center, mid-sized strip plazas and fast-food drive-throughs between Gorman Street and the Beltline, and Plaza West Shopping Center.
- These retail clusters primarily consist of sit-down and fast food restaurants and convenience-oriented stores that serve the daily needs of local residential communities.
- On the northern edge of the corridor, Hillsborough Street features a variety of retail and restaurant offerings serving the population of NC State University. There is also a cluster of independent food and beverage tenants on the western edge of Downtown Raleigh.
- oriented retail that draws local residents attracted to mixed-use environments.
- The corridor will likely continue to face considerable competition in becoming a shopping destination that attracts a significant customer base from outside the study area.



• With the opening of a BRT system, the corridor is poised for new ground floor, transit-





A. Plaza West Shopping Center, 63K Sq. Feet Anchor: Harris Teeter





B. Fast Food Restaurants and Retail Strip Plaza

E.g.: Cook Out, Bojangles, McDonald's, Amedeo's, Food Lion, Advanced Auto Parts

E. Independent Food & Beverage E.g. The Remedy Diner, Irregardless Café



D. Hillsborough Street Shopping District E.g. Target, Poke Bar, CVS Pharmacy, Guasaca





C. Mission Valley Shopping Center, 75K Sq. Feet Anchor: Dollar Tree

