

**GO FORWARD**

A COMMUNITY INVESTMENT IN TRANSIT

**ENGAGE**Durham

Our Future Together

# DURHAM COUNTY TRANSIT PLAN EXISTING CONDITIONS AND PIPELINE PROJECTS

Durham City Council  
December 5, 2019

# AGENDA

- Durham transit plan update progress
- Implemented and pipeline projects
- Current Durham transit system
  - Transit system
  - Riders and travel patterns
  - Challenges



# DURHAM TRANSIT PLAN PROGRESS

# DURHAM TRANSIT PLAN BACKGROUND



Plan was  
developed  
in 2011



Voters pass  
transit taxes  
in 2011



Plan was  
updated  
in 2017

# 2017 DURHAM COUNTY TRANSIT PLAN



**LIGHT RAIL**



**COMMUTER  
RAIL**



**BUS  
FACILITIES**



**BUS SERVICE**

- A new, adaptive initiative to ensure all Durham voices are involved
- Based on the City's Equitable Community Engagement Blueprint
- Prioritizes racial equity and ensures those who have been historically excluded from decision-making will have a voice
- Coordinates engagement efforts among multiple departments
- Consists of an outreach and communications team tasked with harnessing community involvement

# 2019 TRANSIT PLAN UPDATE TEAM



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# IMPLEMENTED AND PIPELINE PROJECTS

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- Service improvements
- Capital improvements
- FY20 planning and design
- Programmed NCDOT projects

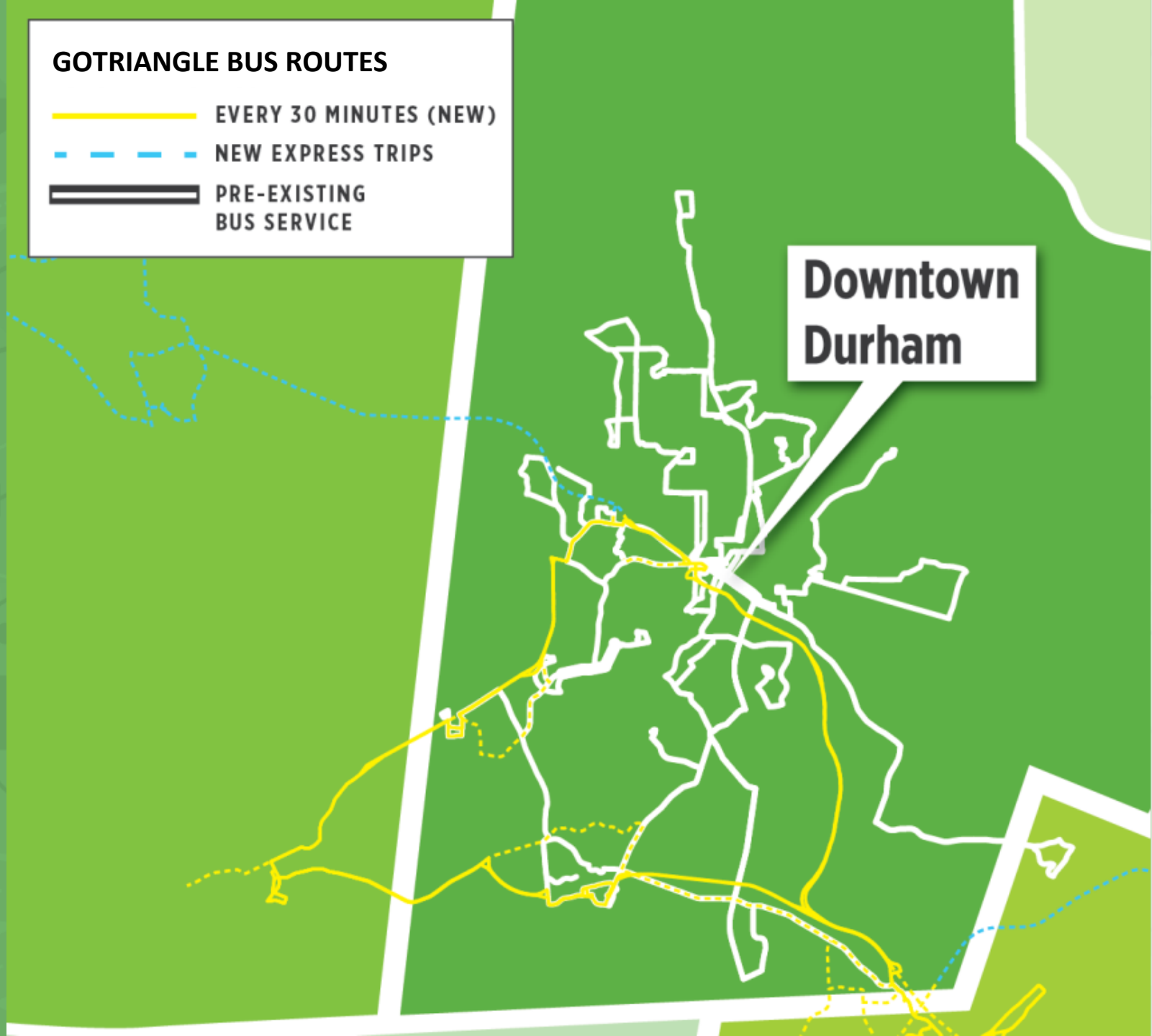


# GOTRIANGLE SERVICE

Continuation of improvements funded by Durham County Transit Plan taxes:  
Transit Plan taxes:

- **Routes 400, 700, and 800:**
  - 30 Minute mid-day service
  - 30 Minute Saturday service
  - Sunday service
- **Durham-Raleigh Express:**
  - Increased number of peak trips
- **New Orange-Durham Express**

These and other improvements funded by **\$1.6 Million** of Durham County Transit Plan taxes, including the voter-approved sales tax. (FY20)

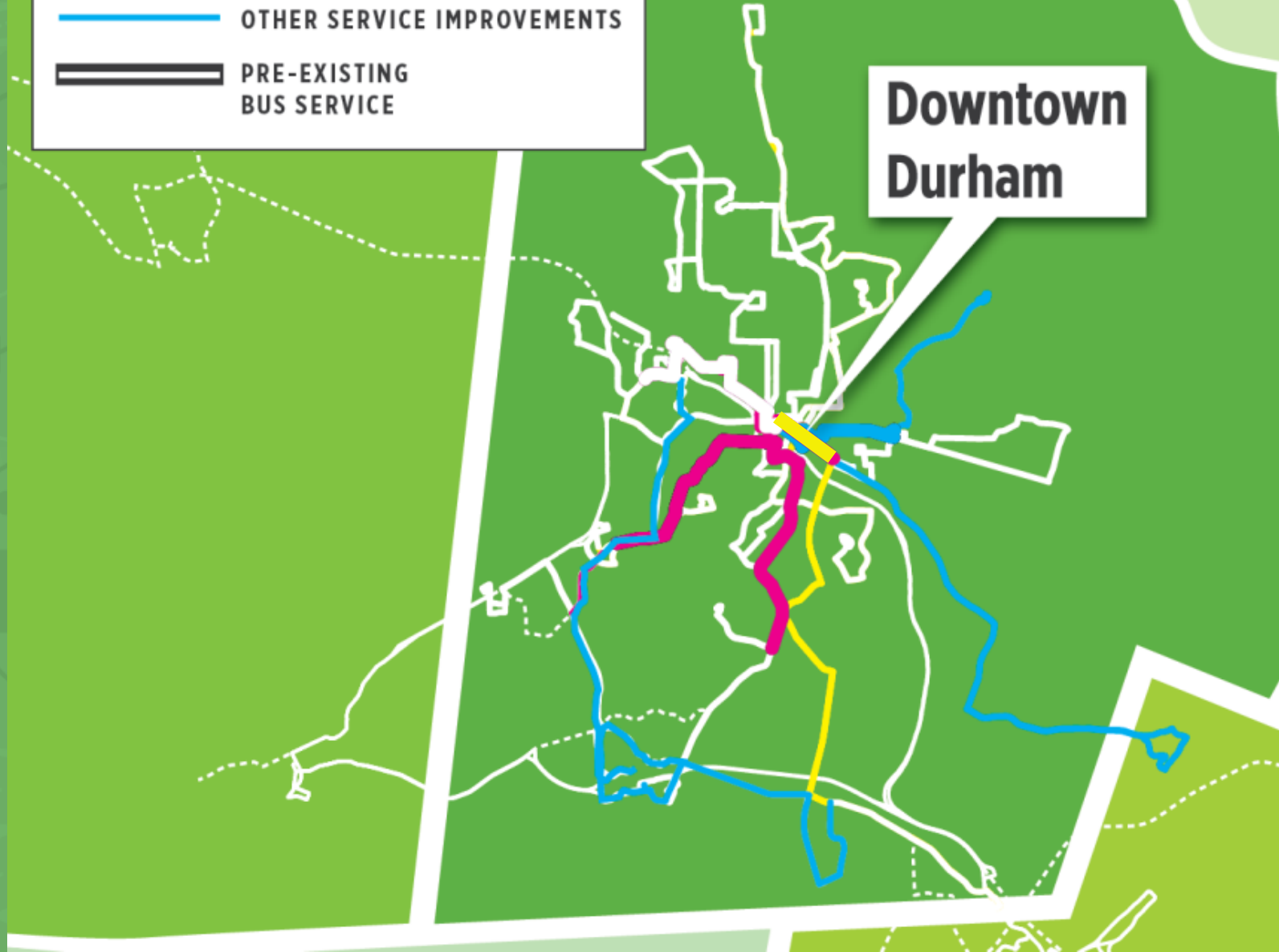


# GODURHAM SERVICE

Continuation of improvements  
funded by Durham County  
Transit Plan taxes:

- New 15 minute service:
  - Route 10 – Chapel Hill Rd.
  - Route 5 – Fayetteville St.
- Other improved Service (frequency):
  - Route 12 – NCCU / NC 55 (30)
  - Route 15 – T.W. Alexander (60)
  - Route 14 – AM trips added (60)
- New Route 20: Woodcroft – Duke (30)

These and other improvements funded by \$3.2 Million of Durham County Transit Plan taxes, including the voter-approved sales tax. (FY20)



# GODURHAM

## JAN 2020 SERVICE UPDATES

- **New 15-minute service**
  - Route 2/12 (East Main St.)\*
  - Route 11 (West Main St.)
- **New 30-minute night and Sunday service**
  - Route 2/12 (East Main St.)\*
  - Route 3 (Holloway St.)\*
  - Route 5 (Fayetteville St.)\*
  - Route 10 (Chapel Hill Rd.)\*
  - Route 11 (West Main St.)

\*These and other improvements funded in part or in whole by **\$3.2 Million** of Durham County Transit Plan taxes, including the voter-approved sales tax. (FY20)



# New Vehicles

## Funded in FY 20:

- GoDurham: \$70,000
- Durham County Access: \$540,000

## Funded FY13-FY19

- GoDurham: \$2.8 million
- GoTriangle: \$90,000

Amount funded by Durham County Transit Plan taxes, including the voter-approved sales tax.



23 BUS STOP  
IMPROVEMENTS  
COMPLETED  
OR UNDER  
CONSTRUCTION:  
\$780,000

Amount funded by Durham  
County Transit Plan taxes,  
including the voter-  
approved sales tax. (FY20)



**BEFORE**

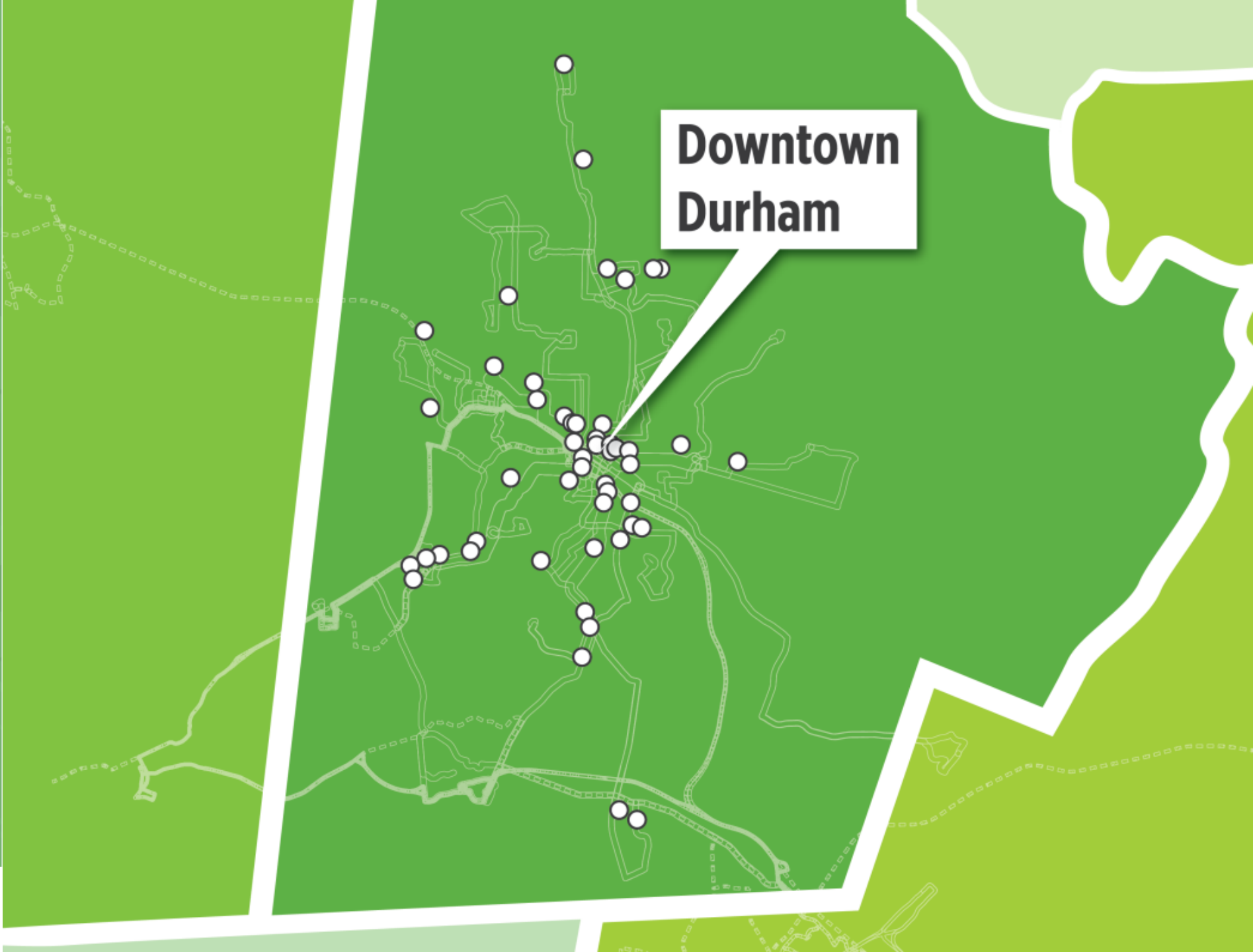


**AFTER**

DESIGN FOR 50  
BUS STOP  
IMPROVEMENTS:  
\$500,000

These stops will be  
constructed in  
FY20 & FY21

Amount funded by Durham  
County Transit Plan taxes,  
including the voter-  
approved sales tax. (FY20)



# TRANSIT PROJECTS IN DESIGN

- **Transit emphasis corridors:**
  - Holloway Street: **\$700,000**
  - Chapel Hill Street: **\$900,000**
  - Fayetteville Street: **\$300,000**
- **Enhanced stops:**
  - The Village: **\$470,000**
  - Patterson Place: **\$200,000**
  - Southpoint: **\$430,000**

Amount funded by Durham County Transit Plan taxes, including the voter-approved sales tax (FY20)



# TRANSIT PLANNING STUDIES

Funded in part by Durham County voter-approved transit taxes (FY20):

- Regional Transit Center relocation feasibility study: **\$125,000**
- Greater Triangle commuter rail study: **\$715,000**

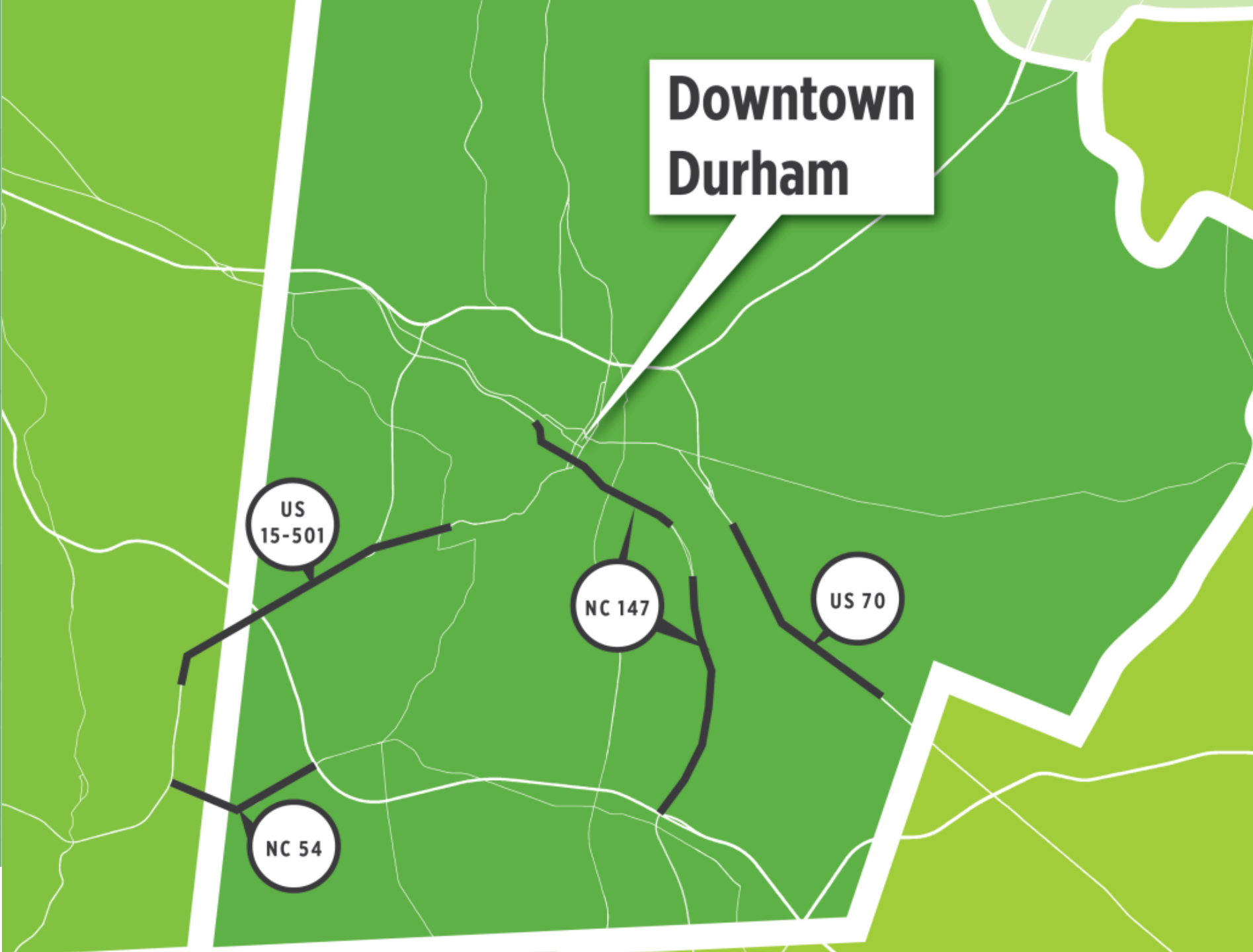
Funded by other sources:

- Bus operations and maintenance facility assessment
- RTA BRT opportunity study





# NCDOT PROJECTS WITH TRANSIT CONSIDERATIONS



**Downtown  
Durham**

US  
15-501

NC 147

US 70

NC 54

The background is a solid green color with a complex, abstract pattern of white and light green lines and shapes. The pattern includes various geometric elements such as circles, squares, rectangles, and lines, some of which are arranged to suggest a network or map. The overall aesthetic is modern and technical.

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# CURRENT DURHAM TRANSIT SYSTEM

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# THREE SERVICE PROVIDERS, ONE TRANSIT SYSTEM

**7.2 MILLION**  
ANNUAL PASSENGER TRIPS

**23,800**  
PER WEEKDAY

**BUS**  
22,900 TRIPS PER WEEKDAY

**PARATRANSIT**  
650 TRIPS PER WEEKDAY

**VANPOOL**  
250 TRIPS PER WEEKDAY

**37.5M**  
IN TRANSIT SERVICE EXPENSES



■ 24% OF GOTRIANGLE RIDERS ALSO USE GODURHAM

■ 12% OF GODURHAM RIDERS ALSO USE GOTRIANGLE

\*Figures are for FY2019 and include Durham County Access, GoDurham and the portions of GoTriangle Services in Durham County. Data source: NTD, GoTriangle.

# GODURHAM HIGHLIGHTS



- **17 routes serving over 1,000 stops**
- **45 buses and 41 paratransit vehicles used in peak service**
- **21,500 passenger trips per weekday**
- **23 million miles traveled (FY17)**  
Average trip length: 3.6 miles (FY17)
- **Transit operating\* expenses: \$29 million**
  - **City of Durham: \$16 million**
  - **County Transit Plan taxes: \$3 million**
  - **Fed/state/farebox: \$10 million**

All figures FY19, unless noted otherwise; financial figures are budgeted FY19

\*excludes capital

# GOTRIANGLE HIGHLIGHTS (DURHAM COUNTY SERVICE)



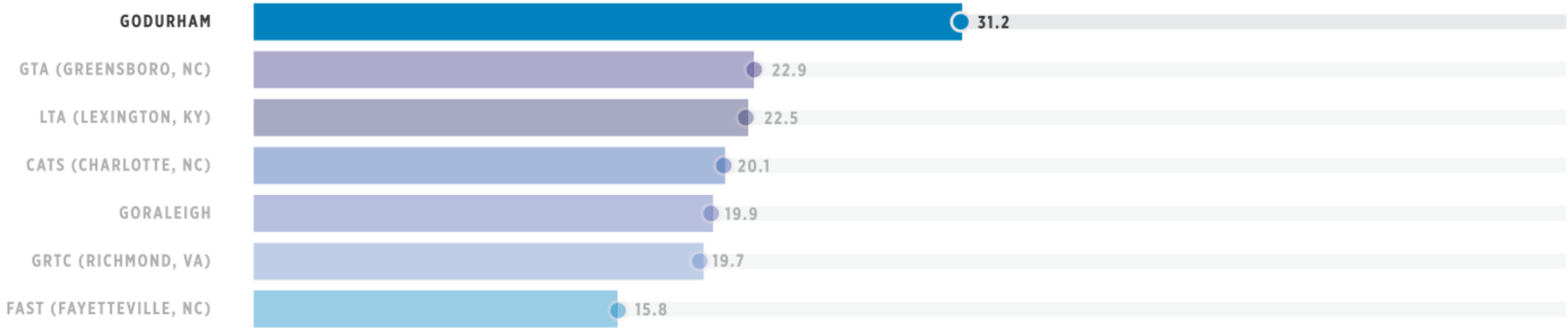
- **7 routes serving over 100 stops**
- **28 buses and 18 paratransit vehicles used in peak service**
- **2,300 passenger trips per day**
- **7 million miles traveled (FY17)**  
Average trip length: 12 miles (FY17)
- **Transit operating\* expenses: \$6.5 million**
  - **County Transit Plan taxes: \$1.5 million**
  - **Fed/state/farebox/other: \$5.0 million**

All figures FY19, unless noted otherwise.

\*Financial figures are FY19 estimates from actual services operated. Excludes capital

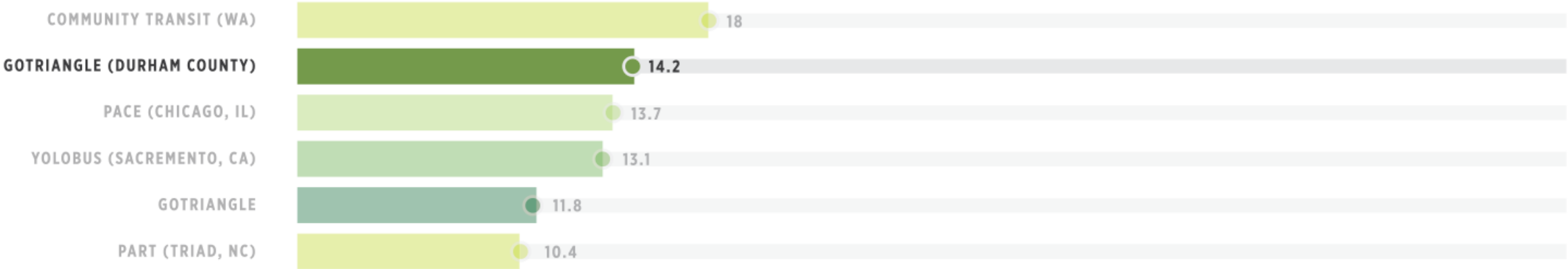
# PASSENGERS PER BUS PER HOUR IN DURHAM OUT-PERFORMS PEER SYSTEMS

## GODURHAM LOCAL TRANSIT AGENCY PEERS



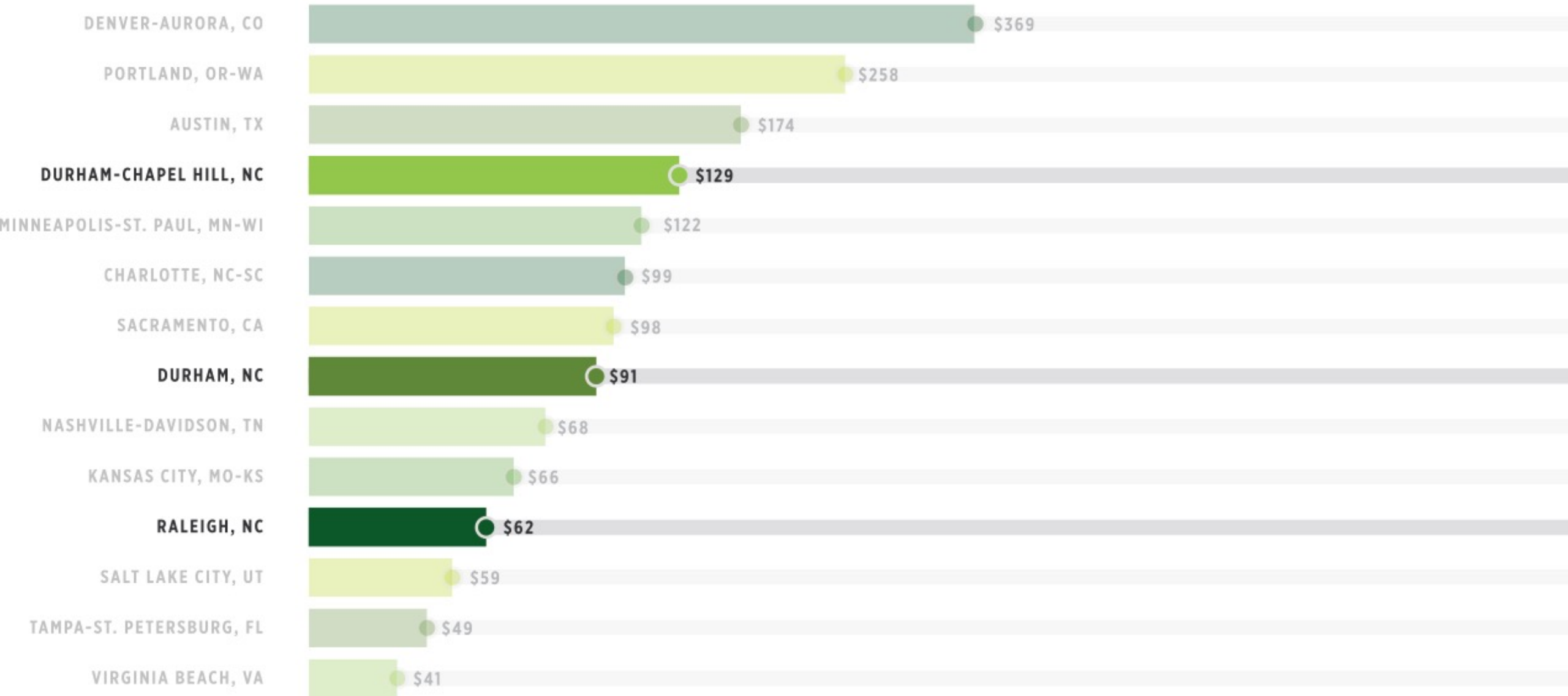
AVERAGE TRIP LENGTH: 3.6 MILES

## GOTRIANGLE REGIONAL TRANSIT AGENCY PEERS



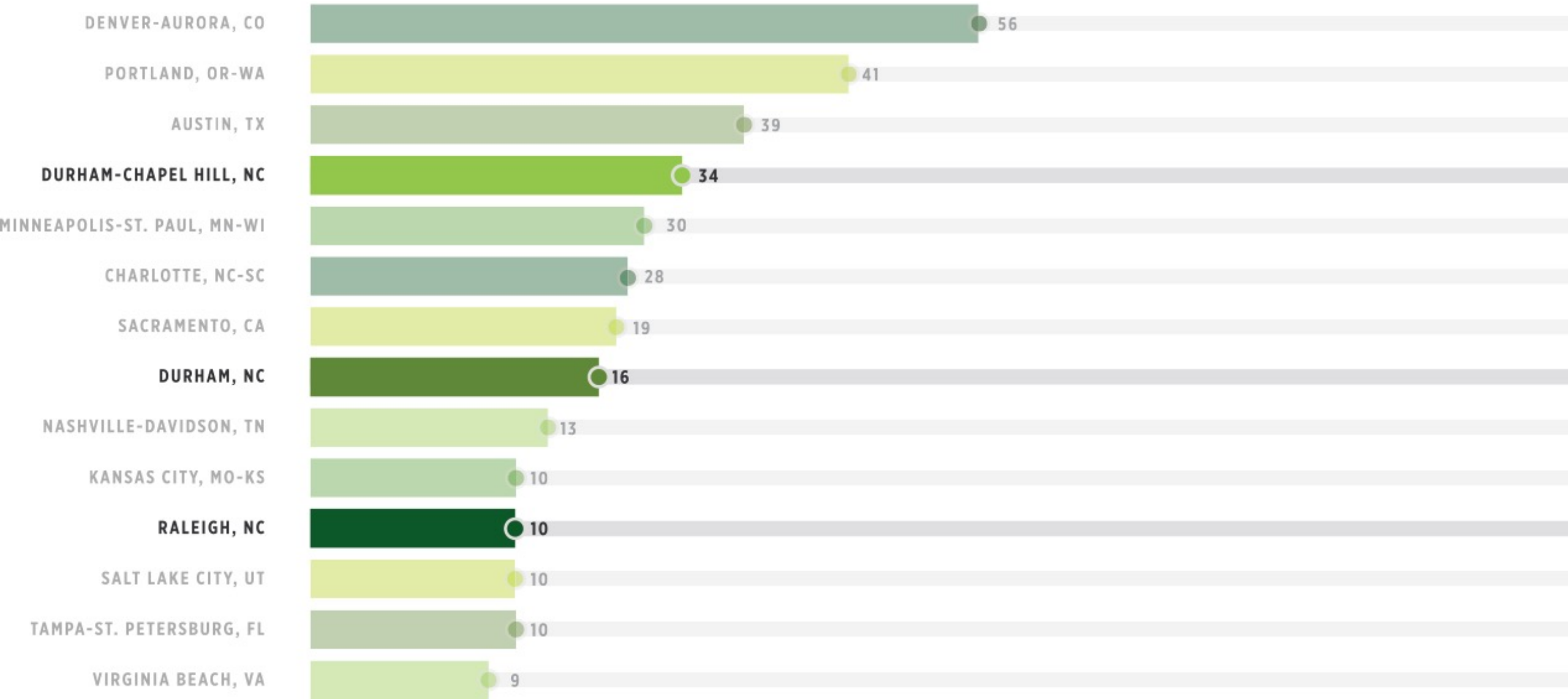
AVERAGE TRIP LENGTH: 12 MILES

# DURHAM INVESTS MORE IN TRANSIT PER PERSON THAN LARGER CITIES



FY17 National Transit Database

# DURHAM HAS MORE ANNUAL TRANSIT TRIPS PER PERSON THAN LARGER CITIES



FY17 National Transit Database



The background is a solid green color with a complex, abstract pattern of thin, light-green lines and various geometric shapes. These shapes include circles, squares, rectangles, and clusters of small dots, all arranged in a way that suggests a network or a map. The overall effect is a textured, layered look.

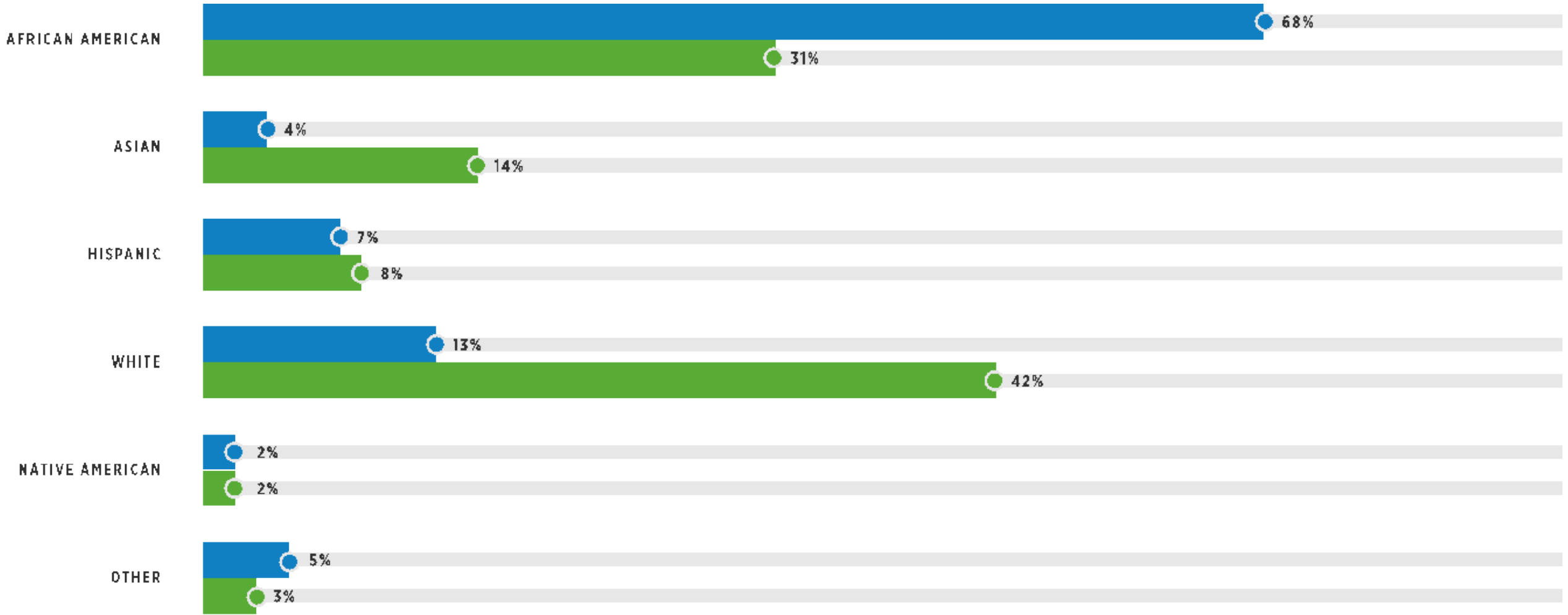
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# RIDERS AND TRAVEL PATTERNS

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# MOST RIDERS EARN LESS THAN \$25,000 PER YEAR

# THE MAJORITY OF RIDERS ARE PEOPLE OF COLOR



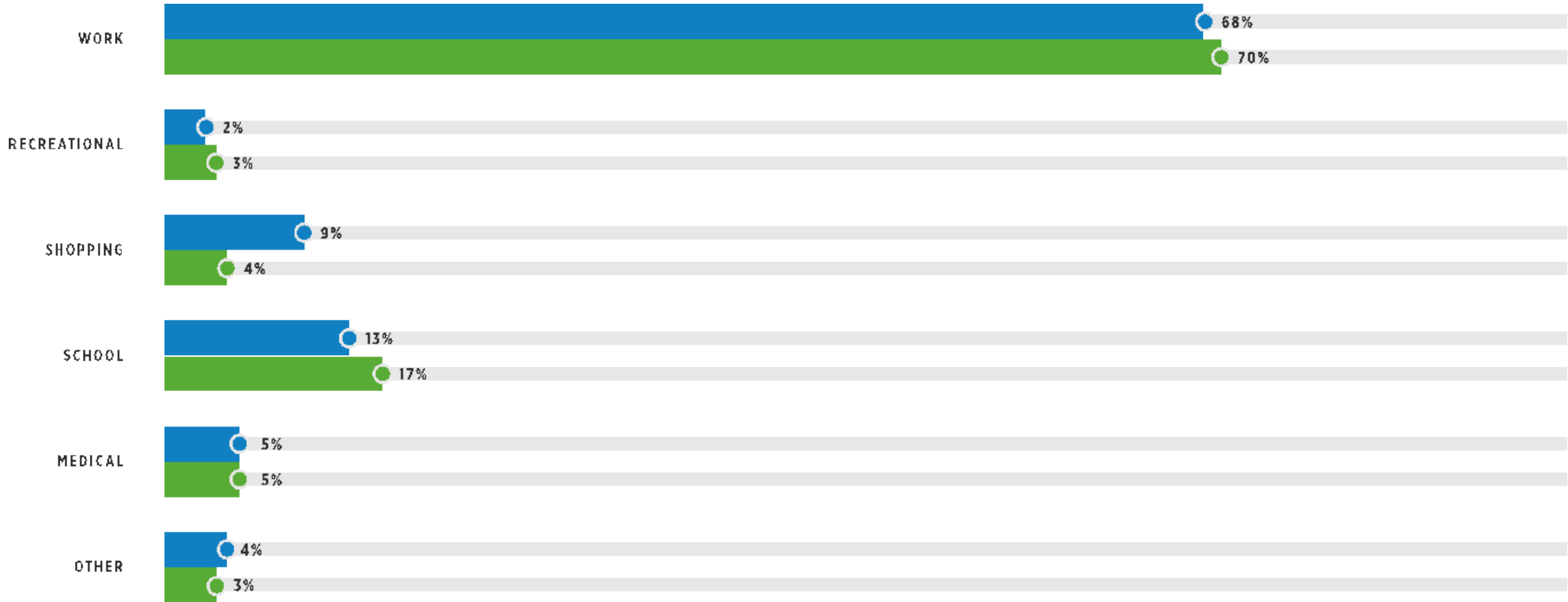
2018 Rider Survey

 GODURHAM  
21,500 riders / day

 GOTRIANGLE  
2,300 riders / day

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# MOST RIDERS ARE GOING TO WORK OR SCHOOL



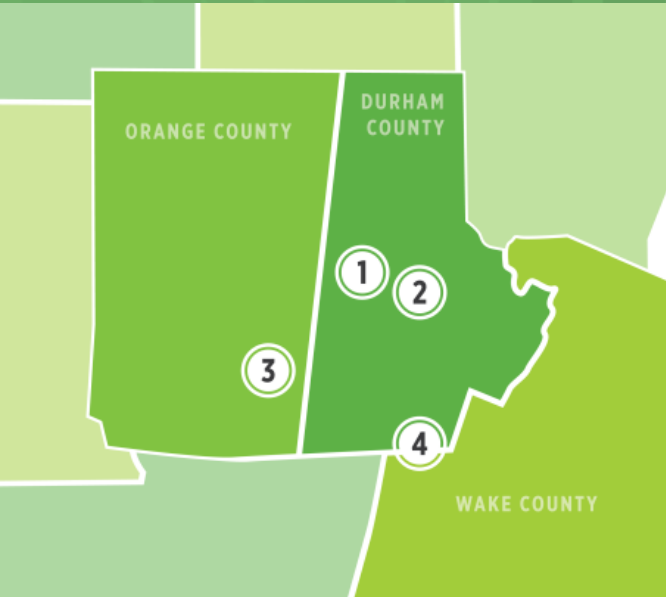
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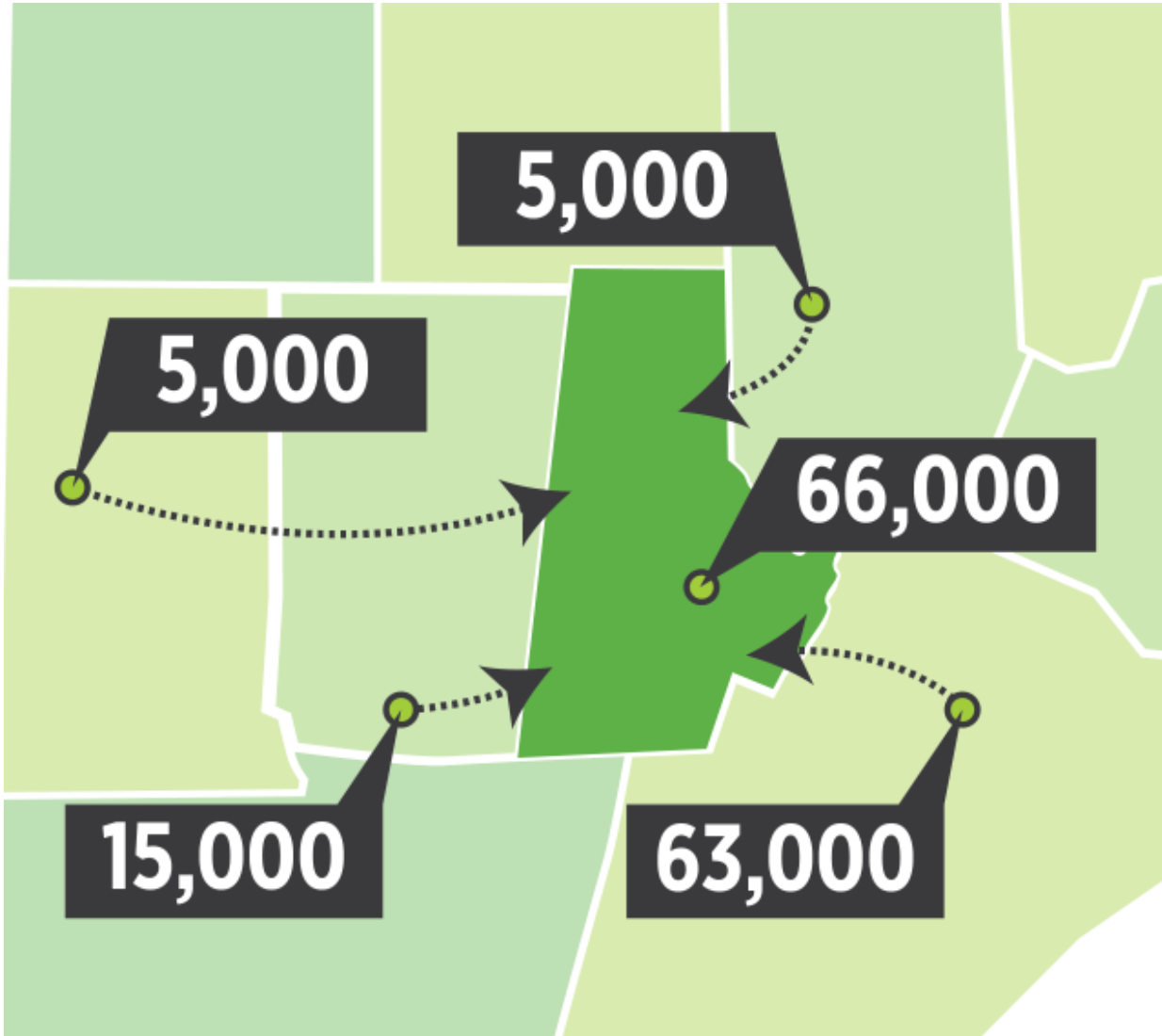
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# WHERE PEOPLE WHO LIVE IN DURHAM WORK



- **140,000 workers *live* in Durham County**
- **The top 4 places they work are:**
  1. Duke University & VA Medical Center area
  2. Downtown Durham
  3. UNC and the Chapel Hill & Carrboro downtowns
  4. RTP area (Durham/Wake)
- **More Durham residents work in Durham County than any other county:**
  - Between 1/3 and 1/2 of Durham residents work for employers outside of Durham County.
  - Wake County and Orange County are the next two largest employment destinations for Durham residents.
- **Regional connections are growing in importance for Durham workers:**
  - From 2010 to 2017, the number of people who both live and work in Durham County grew 15%, but Durham workers with jobs in other counties grew 25%.

# WHERE PEOPLE WHO WORK IN DURHAM LIVE

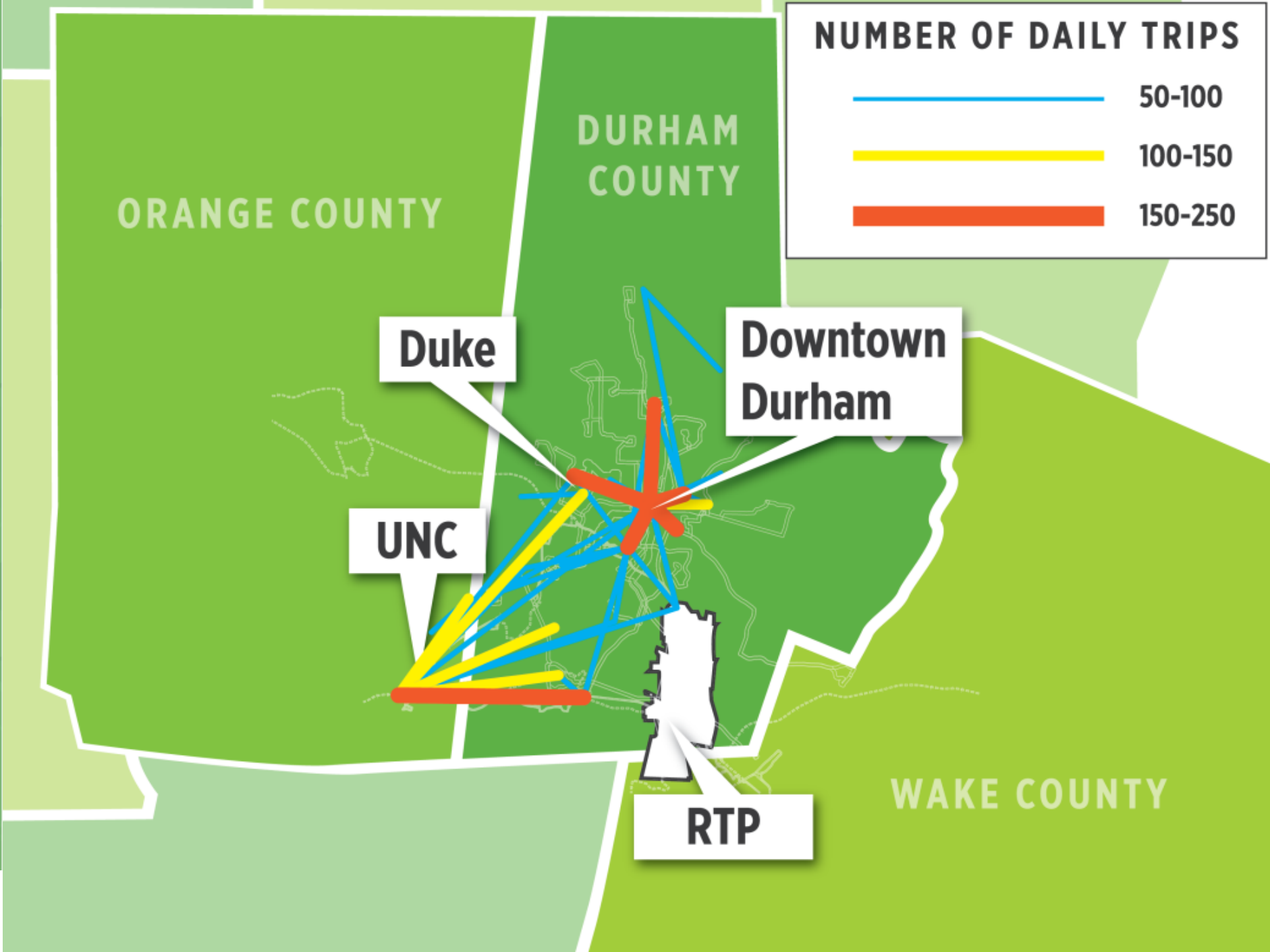


- 200,000 jobs are located within Durham County
- Regional connections are growing in importance for Durham employers:
  - 25,000 new jobs in Durham County since 2010.
  - Around one-third of jobs in Durham County are held by Durham County residents, a rate that has remained steady since 2010.

# CONNECTIONS BETWEEN WHERE TRANSIT RIDERS LIVE AND WORK (2014)

The strongest transit travel markets in Durham have trips that begin or end in:

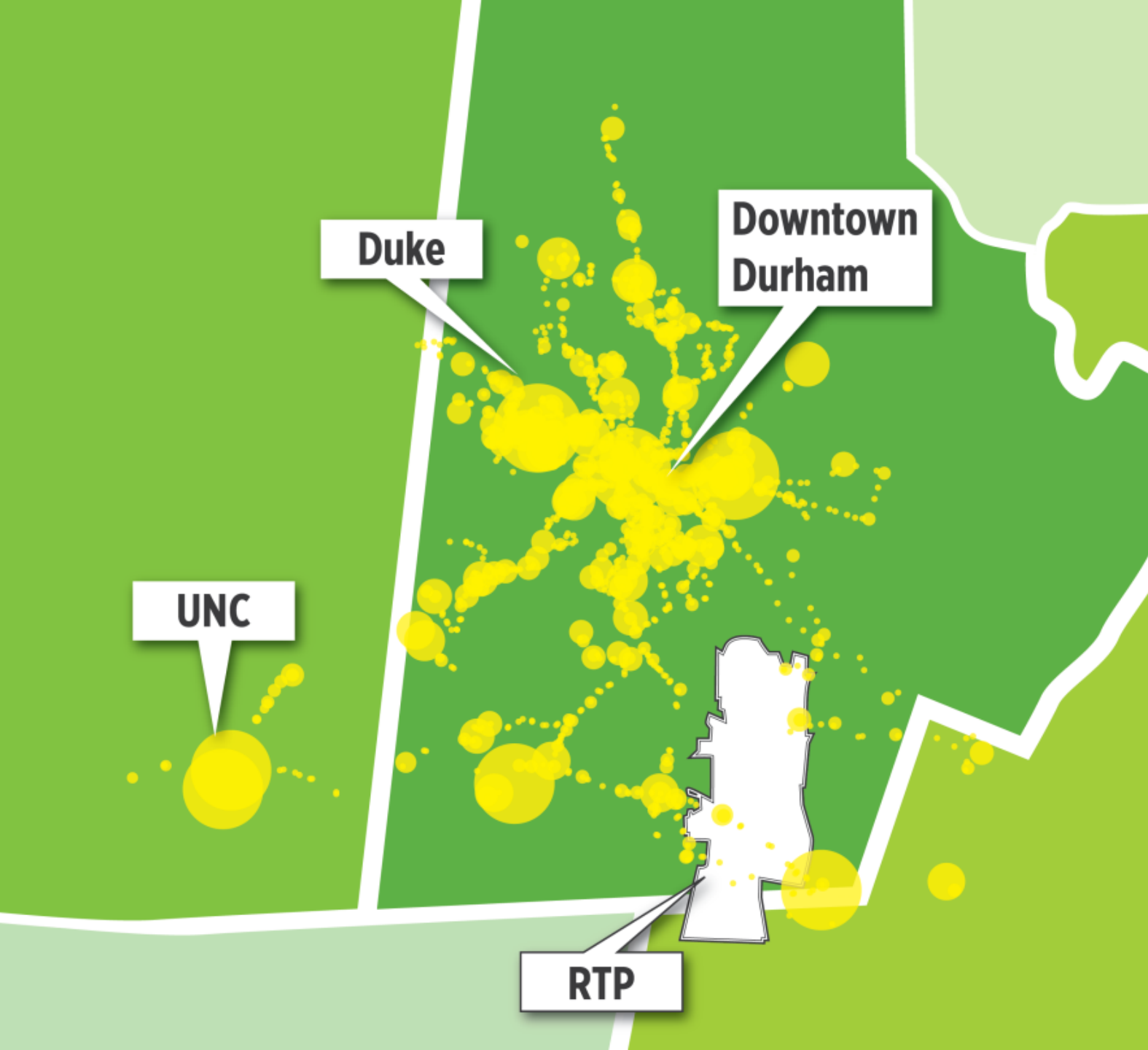
- Downtown
- East Durham
- Duke / VA Medical
- UNC



# DAILY BUS BOARDINGS

(2018 GOTRIANGLE + GODURHAM)

- DURHAM STATION: 7,700
- DUKE/VA: 1,400
- UNC: 1,200
- RTC: 1,000
- THE VILLAGE: 550
- SOUTHPOINT: 400
- NCCU: 350
- RDU AIRPORT: 100

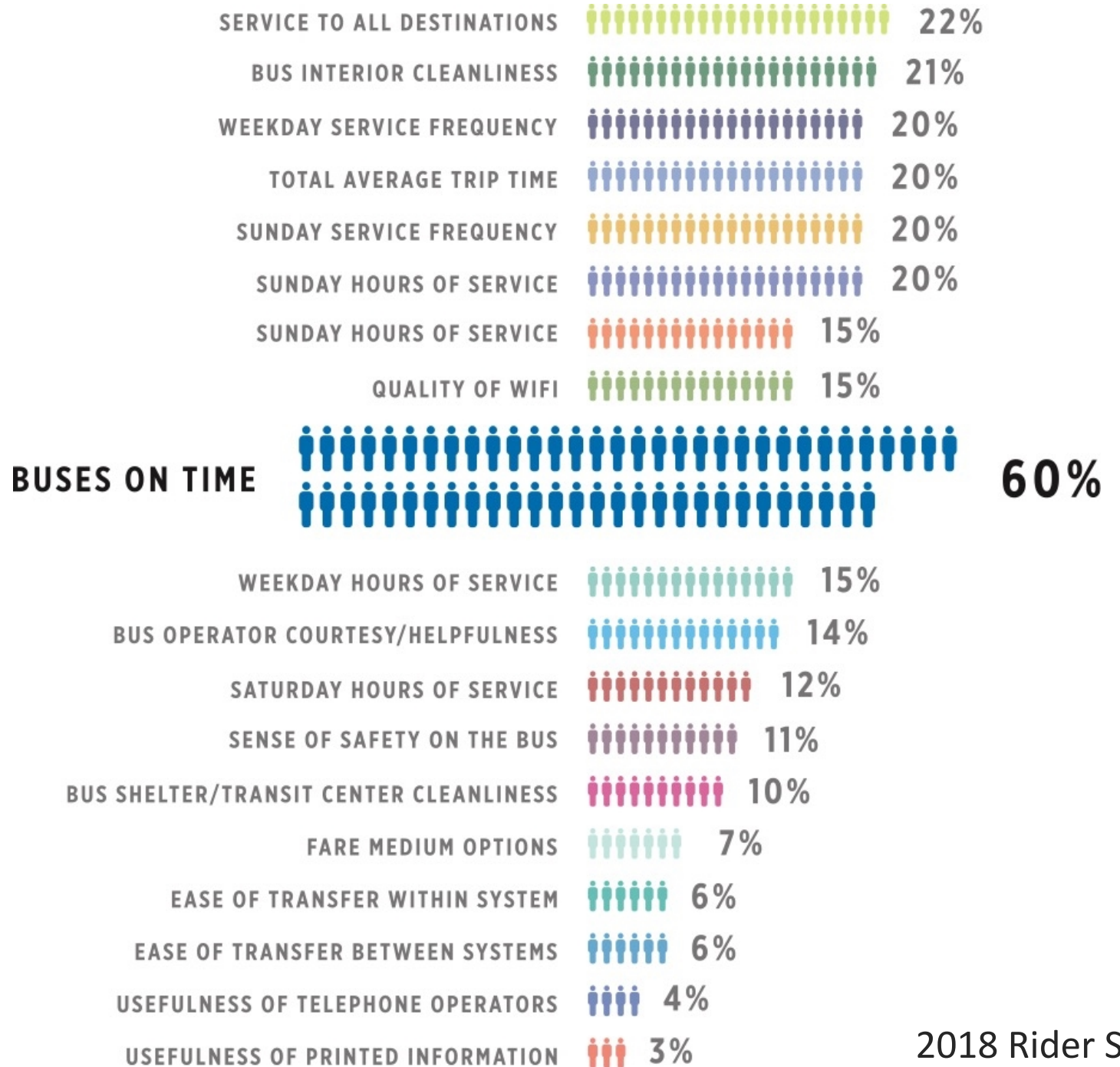




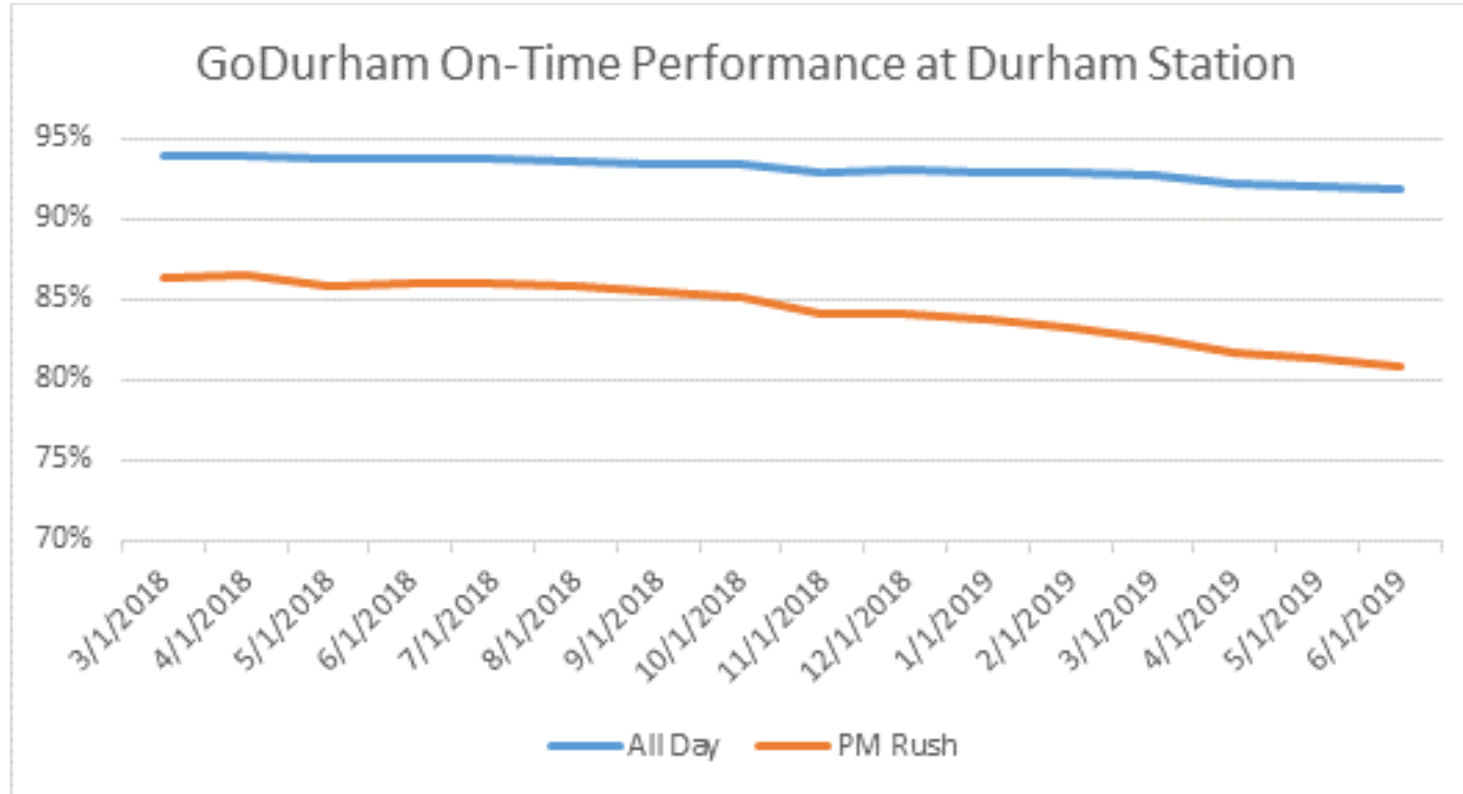
The background is a solid green color with a complex, abstract pattern of thin, light green lines and various geometric shapes like squares, circles, and rectangles. The pattern is dense and somewhat chaotic, resembling a technical or architectural drawing. In the center, the word "CHALLENGES" is written in a bold, white, sans-serif font. It is framed by two horizontal white lines, one above and one below the text.

# CHALLENGES

# RIDERS' TOP PRIORITY: BUSES ON TIME

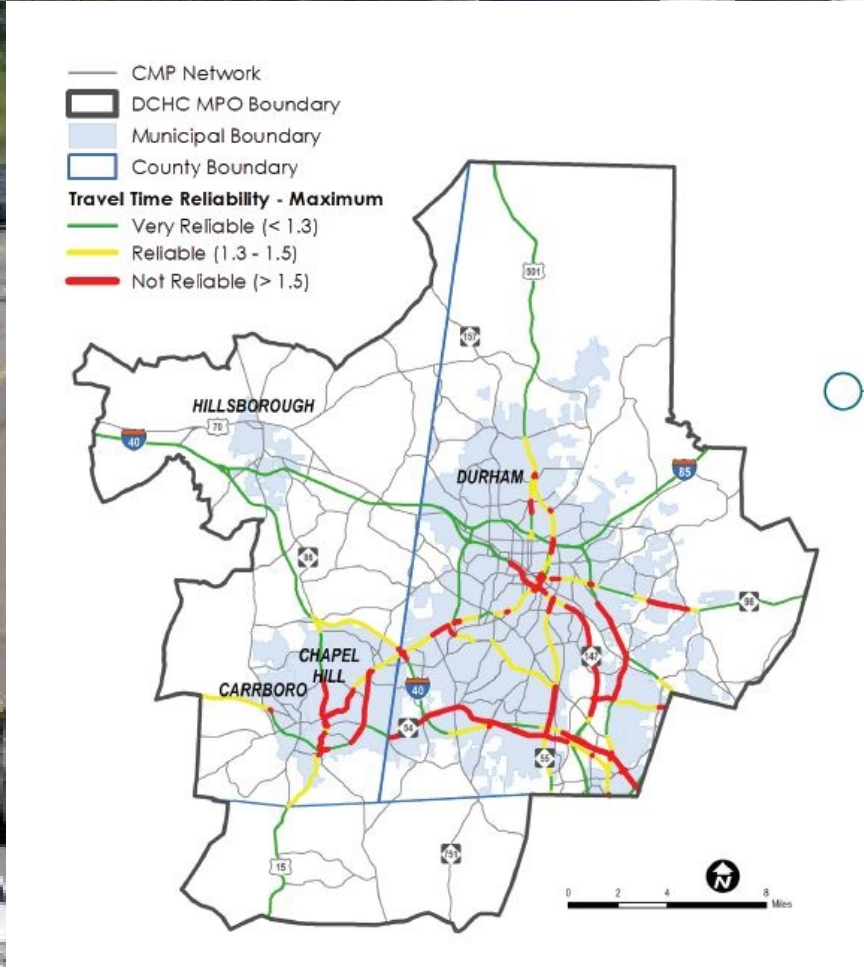


# BUS RELIABILITY IS DECREASING

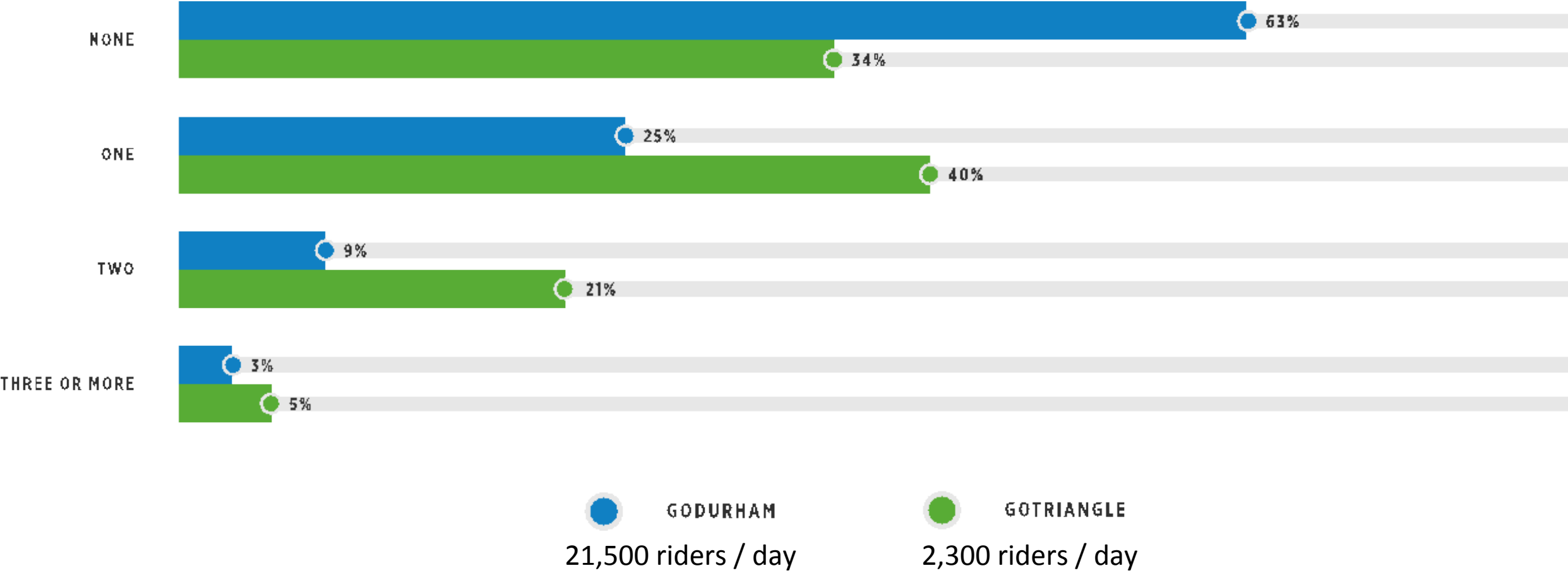


Late and unreliable buses have consequences for bus riders

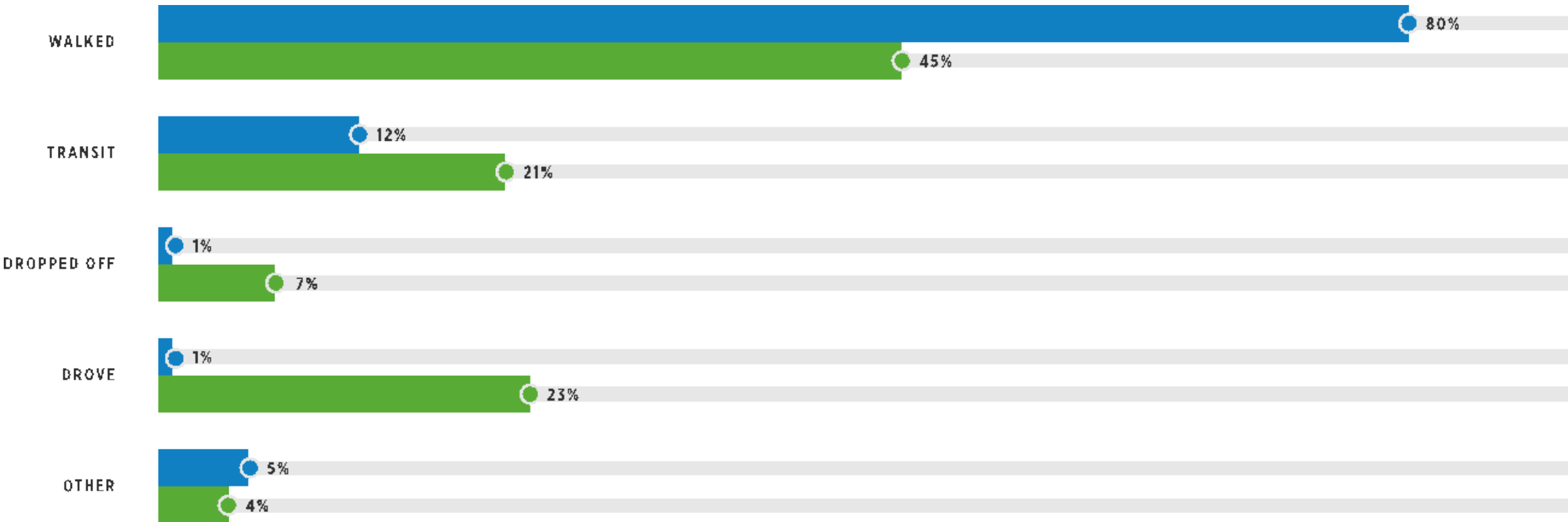
# AS CONGESTION GROWS, RELIABILITY DECLINES




# MOST RIDERS DO NOT HAVE ACCESS TO A CAR



# MOST RIDERS WALK TO THE BUS



 GODURHAM  
21,500 riders / day

 GOTRIANGLE  
2,300 riders / day

THERE ARE OVER  
1000 BUS STOPS  
IN DURHAM



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Questions

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