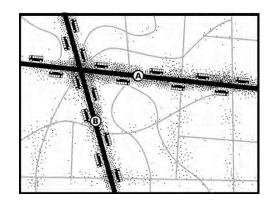
Existing Network, Performance, and Goals

Scudder Wagg, Jarrett Walker + Associates

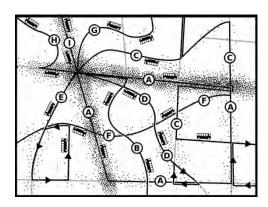


Ridership and Coverage Goals



"Think like a business."

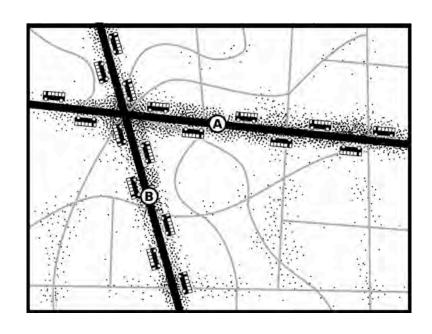
- Focus where ridership potential is highest.
- Supports dense redevelopment.
- Environmental benefits
- Congestion benefits
- Maximum job access.



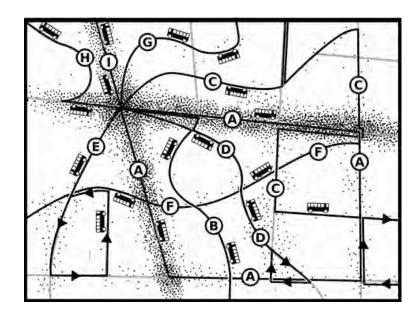
"Access for all"

- Services for suburban, hardto-serve areas, despite low ridership.
- Lifeline access for everyone
- Political equity: Service to every neighborhood or electoral district.

So it helps to choose a point on the spectrum ...



Ridership Goal



Coverage Goal

2012 and 2017 Plan Goals

• Ridership:

- Improving overall mobility
- Encouraging transit-supportive land use
- Providing positive impacts on air quality

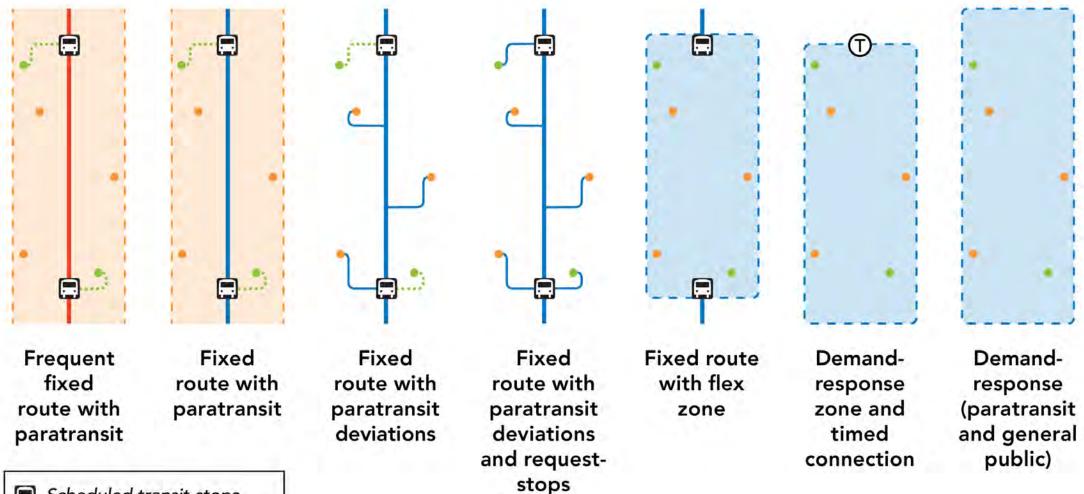
Coverage:

- Improving transportation options
- Providing geographic equity

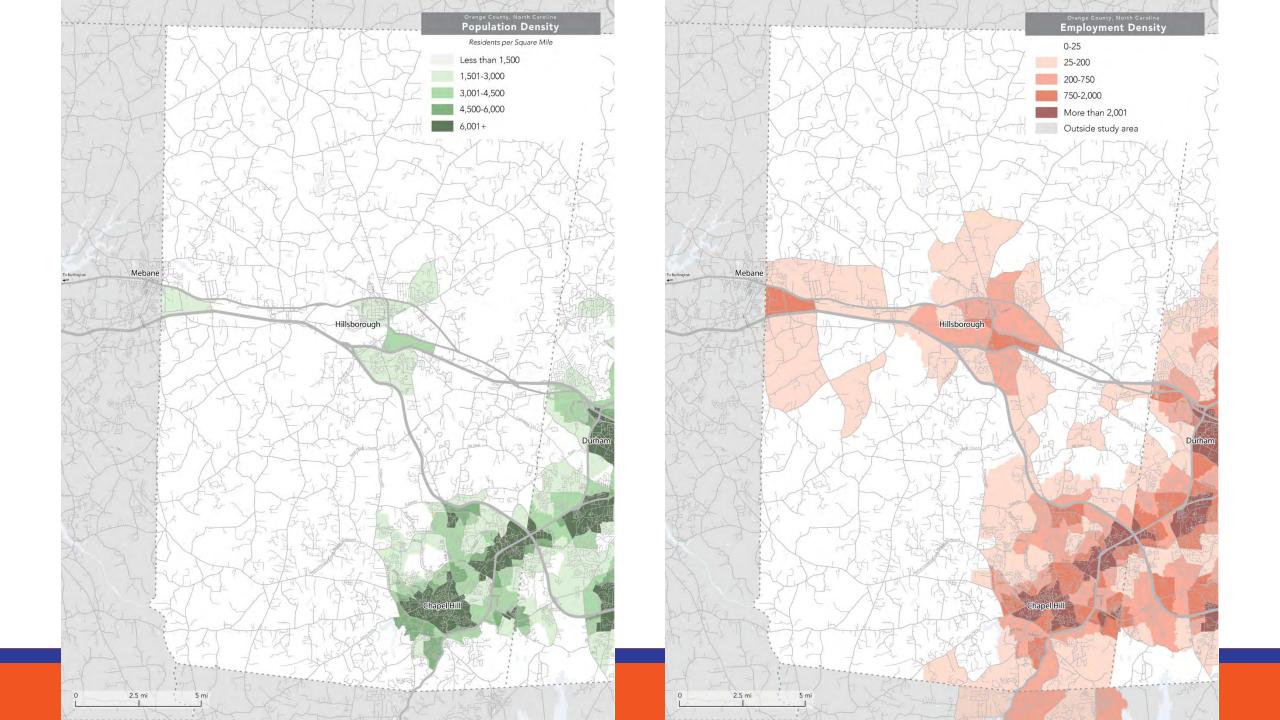
Other

Supporting improved capital facilities (Civility-Luxury Trade-off)

The Spectrum: Fixed Service to Demand Responsive

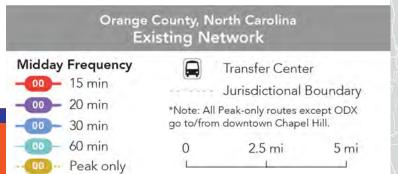


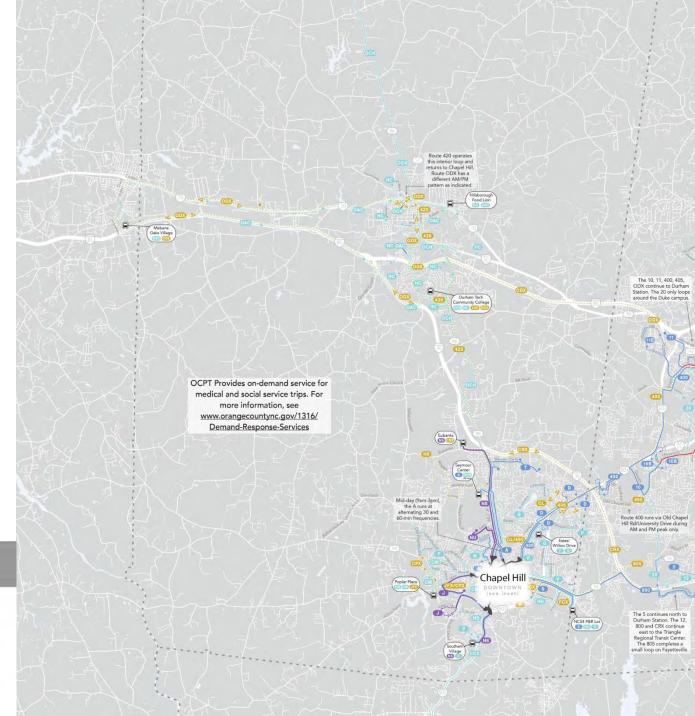
- Scheduled transit stops
- Paratransit passengers
- General public passengers



Existing Network

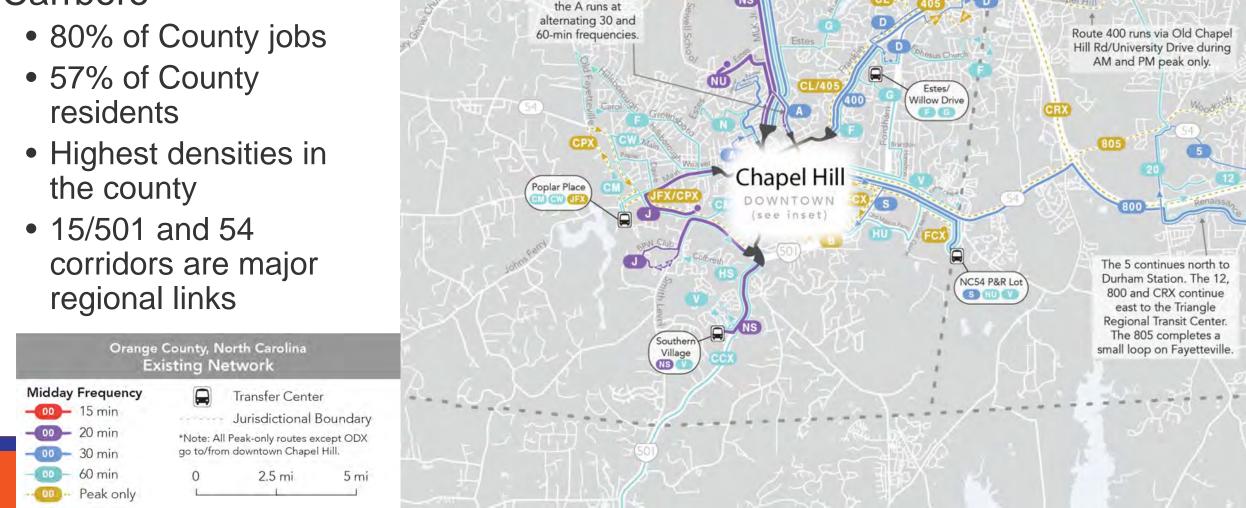
- Most service is in Chapel Hill and Carrboro
 - Because that's where most people and jobs are
 - And they pay for most service
- Remainder of county only has
 - Hourly service on three fixed routes (OCH/420, HC, OAC)
 - Peak service on one route (ODX)
 - On Demand Services for specific groups and/or at high cost





"Existing" Network

 Most service is in Chapel Hill and Carrboro

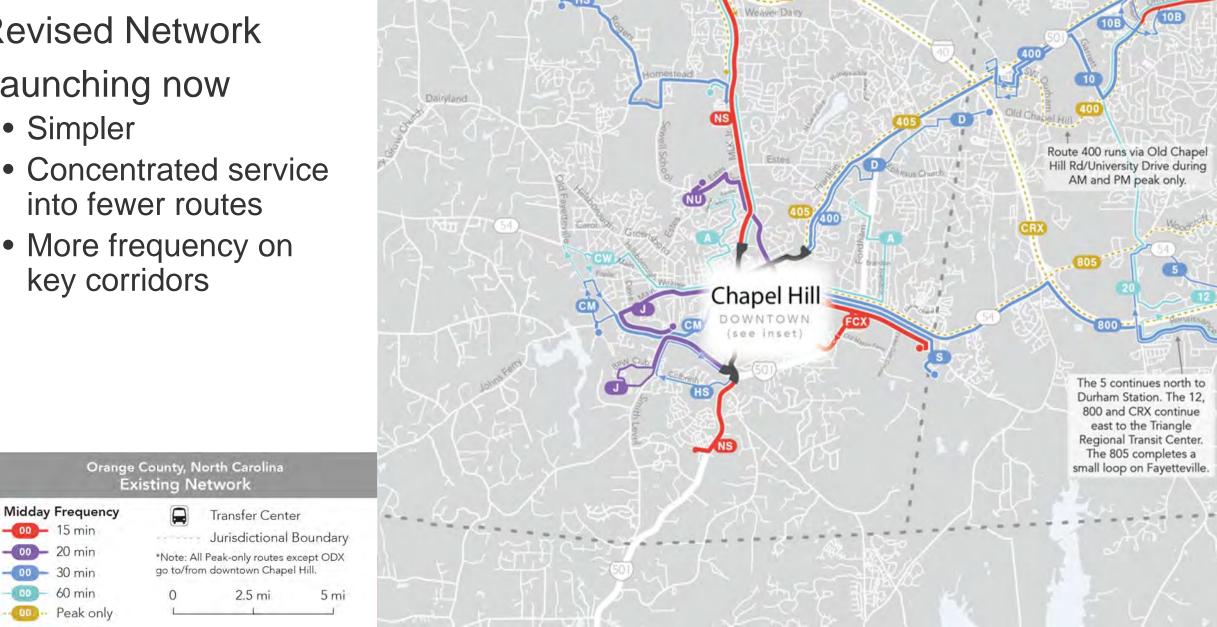


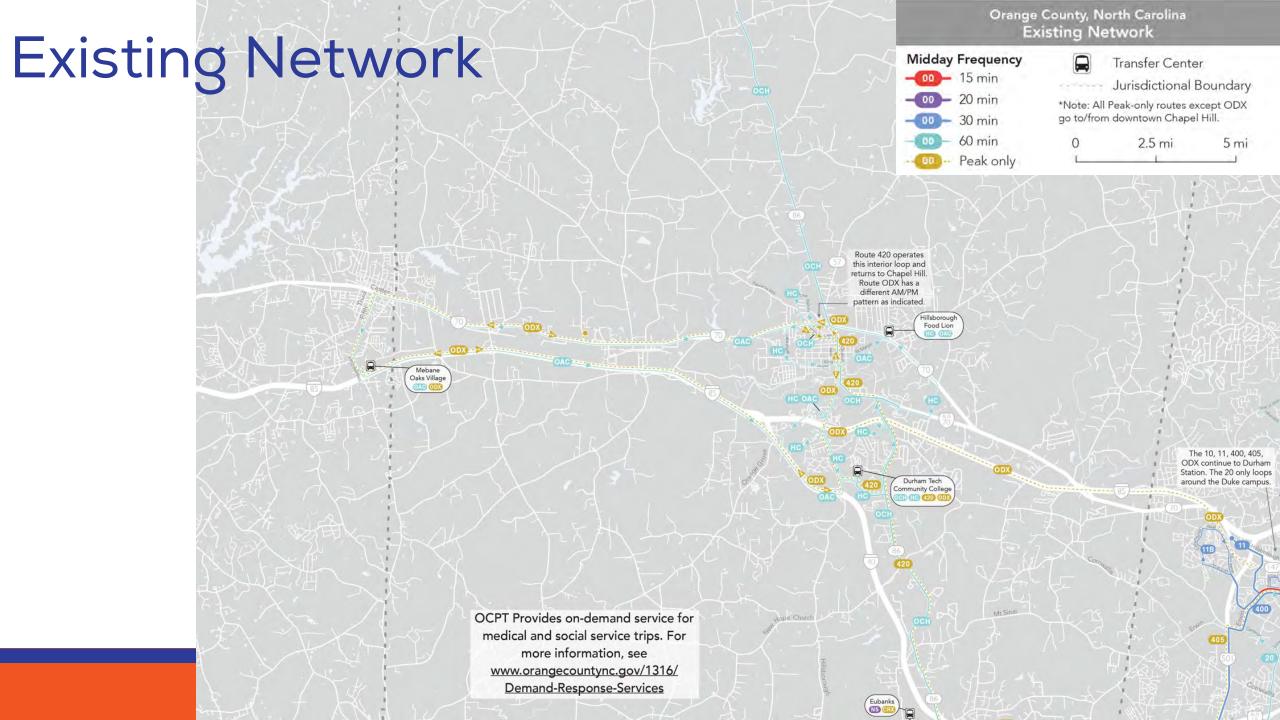
Mid-day (9am-3pm),

Seymou Center

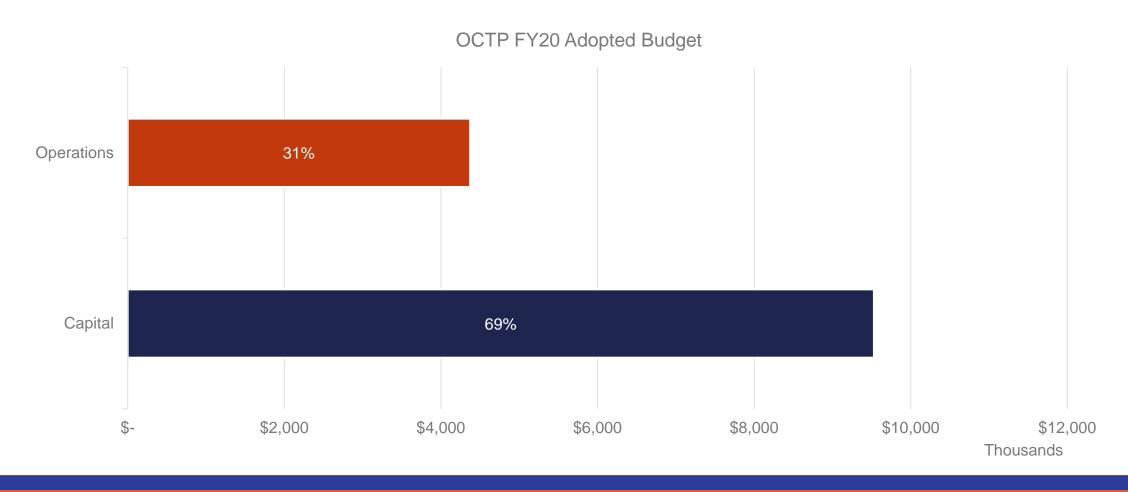
New Network

- Revised Network
- Launching now
 - Simpler
 - Concentrated service into fewer routes
 - More frequency on key corridors





Orange County Transit Plan Budgeted Funding (FY20)



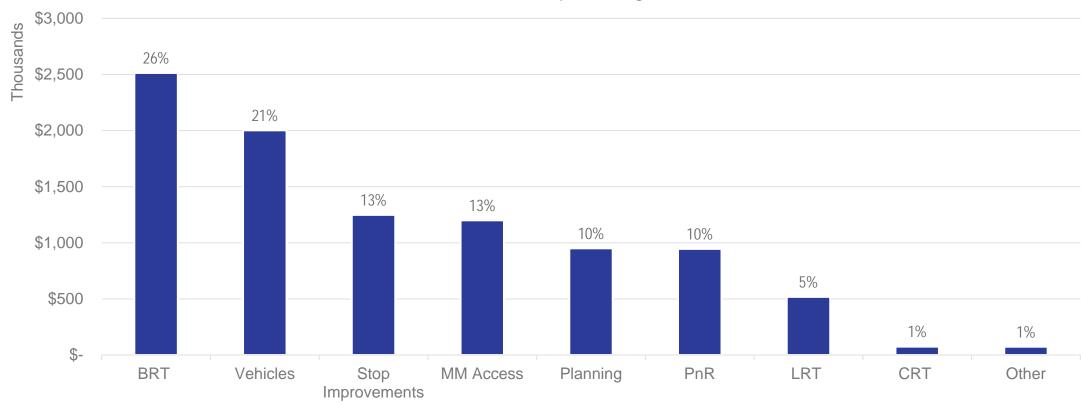
Capital versus Operating

- Operating
 - Provides the actual transit service
 - Is hard to fund from other sources

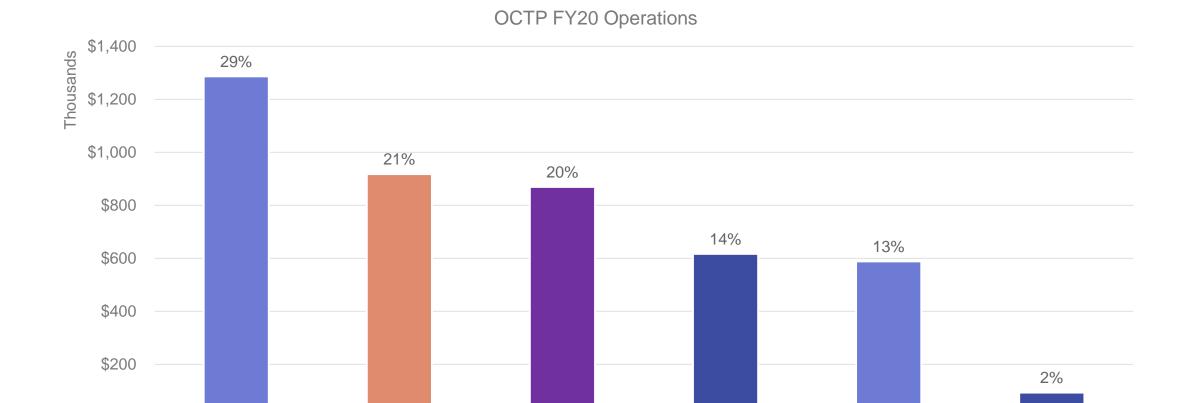
- Capital
 - Necessary for long-term service provision (vehicles, garages)
 - Can leverage other funding sources for high impact
 - Can improve operating cost or service levels
 - speed and reliability
 - Can build ridership
 - sidewalk improvements, shelters
 - Highly visual

Where are capital funds going?





Where are operating funds going?



Administration

OCPT Expansion

CHT ICES

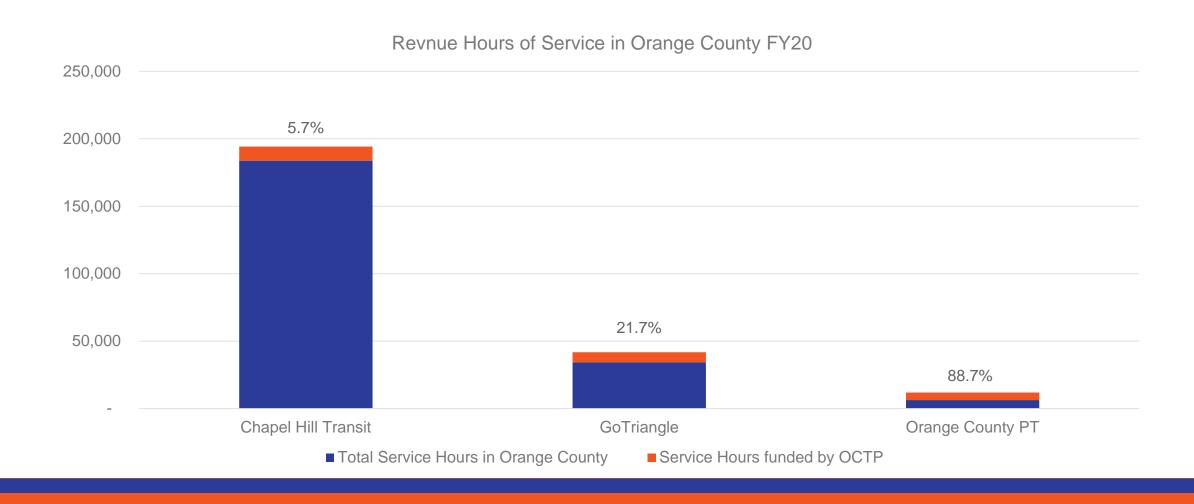
OCPT ICES

\$-

CHT Expansion

GoT Expansion

How much service is funded by OCTP?



Existing Network

• Only 10% of the service hours on this map are paid for by the Orange County Transit Plan.

Midday Frequency

-00 - 15 min

00 - 20 min

00 - 30 min

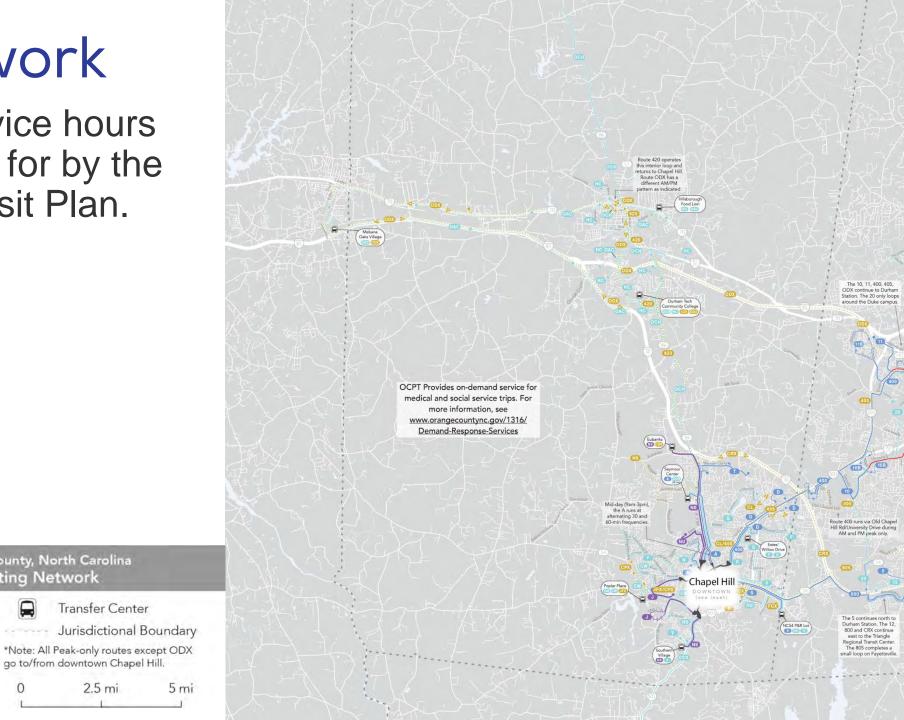
- 60 min

Peak only

Orange County, North Carolina Existing Network

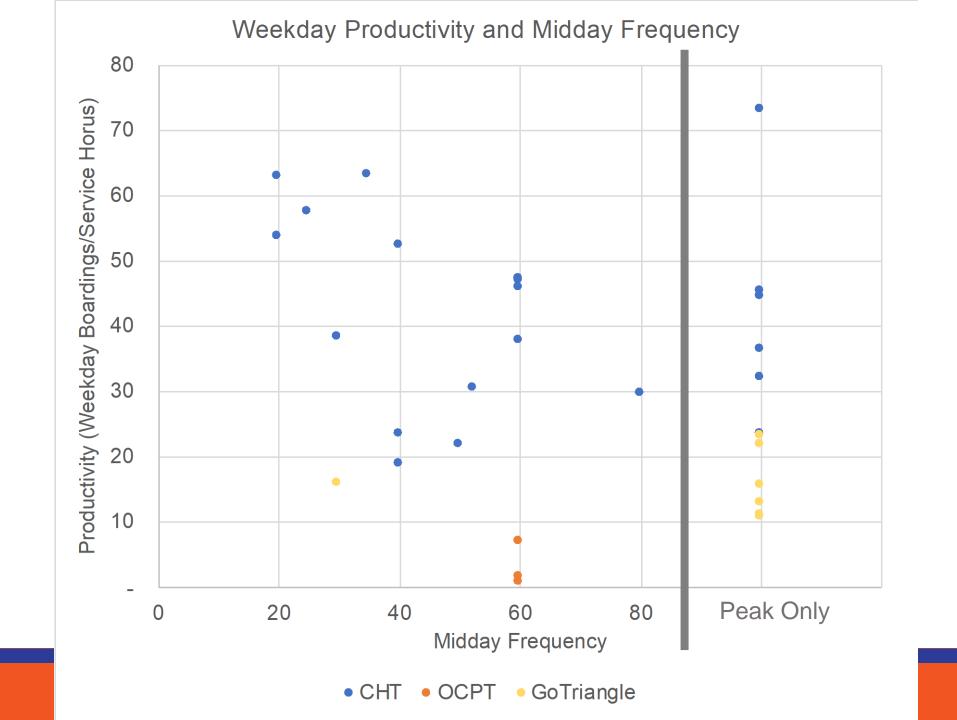
Transfer Center

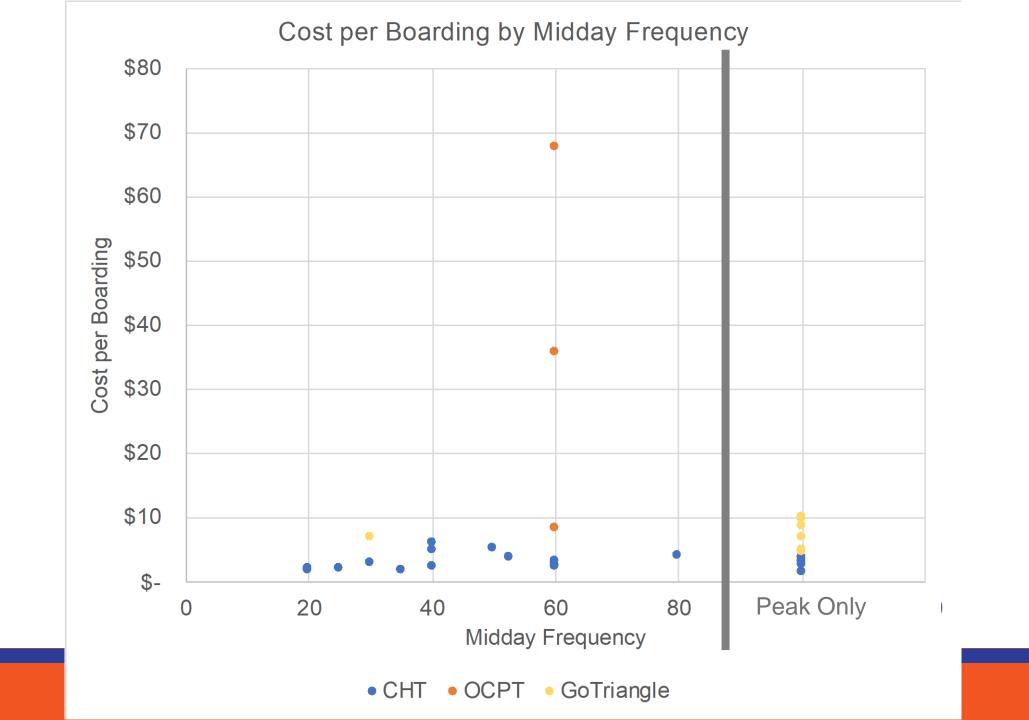
2.5 mi



Additional Coverage Service

- Orange County Public Transportation provides on-demand, diala-ride type service under the following programs:
 - Medicaid Transportation Service (Non-Emergency Medical Transportation)
 - Elderly and Disabled Medical Transportation (EDTAP)
 - EMPL (Department of Social Service: Work First)
 - Rural General Public (RGP)
 - Origin or destination must be in non-urbanized area, high fare (\$12.75)
- OCPT will be piloting a more expansive on-demand service





Productivity for CHT and GoTriangle

- Most CHT services are highly productive
 - Average more than 40 boardings per hour, around \$3 per boarding.
 - Being fare free helps
- GoTriangle Services vary in productivity and cost per rider
 - Route 400, 405, 800, and 800S average
 - 16-23 boardings per hour
 - \$5-7 in cost per boarding
 - ODX, CRX, and 420 are the least productive and highest cost per rider
 - Average 11 to 13 boardings per hour
 - Average \$8.57 to \$10.18 in cost per riders

Peaking has extra costs:

- Extra buses in the fleet to:
 - Purchase
 - Maintain
 - Garage
 - Replace
- Slight additional labor costs
- Less service in the midday, evenings, and on weekends
- Requires a higher capital to operating ratio

OCTP Productivity

- OCTP Services have lower productivity and some very high cost per rider
 - HC: 7 boardings per hour, \$8.39 per boarding
 - OCH: 1.7 boardings per hour, \$35.17 per boarding
 - OAC: 0.9 boardings per hour, \$67.77 per boarding
- Demand responsive productivity is about 2 boardings per hour.
 - This equates to about \$30 per boarding.

Key Question #1: Operating vs. Capital

- Operating funding <u>actually provides</u> the service that people need and use.
- Capital funding supports the service (vehicles, planning)
 - Can be over funded relative to operating due to high impact and visibility
- Should Orange County invest significantly more in transit operating and less on capital support?
- Or is the current balance of capital and operating about right?

Key Question #2: Ridership vs Coverage

- Current funding split is 64% CHT, 24% GoTriangle, 12% OCPT.
 - 90% of CHT service is prioritizing ridership
 - 60% of GoTriangle service is prioritizing ridership
 - 20% of OCPT service is prioritizing ridership.
- Should Orange County invest more higher ridership service?
- Should Orange County invest more in higher coverage?
- Or is the current balance of ridership and coverage about right?

Key Question #2 (part 2): Coverage Priorities

- When we deploy coverage service, is the priority ...
 - Service where or when needs are greatest (low income, senior etc.)?
 - Serving new development, even if it won't produce high ridership?
 - A little service everywhere?
 - This responds to the ask from taxpayers who are all contributing.
 - This tends to spread service the thinest and yield the lowest productivity and highest cost per rider.

Key Question #3: Longer distances, or more riders

Route	What does it do?	How should we measure it?	Results:	
Α	4 people, 3 miles each	Number of people (boardings)	4 boardings	12 passenger miles
В	2 people, 10 miles each	Number of miles (people x miles)	2 boardings	20 passenger miles

Which of these routes is doing work that you care about more?

Thoughts, Questions, Discussion

Thank you!

