GoTriangle
Administration & Governance Committee
January 03, 2024
3:00 pm-3:30 pm Eastern Time

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Phone Conference ID: 674 708 49#

I. Elect Committee Chair
   (2 minutes)

II. Elect Committee Vice Chair
    (2 minutes Committee Chair)

III. Call to Order and Adoption of Agenda
     (1 minute Committee Chair)

IV. Wake ADA Policy
    (20 minutes Michelle Peele)

   ACTION REQUESTED: Recommend the Board adopt the Wake Transit ADA Policy and Service Guidelines and Performance Measures.

   ADA Policy

   Service Guidelines and Performance Measures

V. Adjournment
    (Committee Chair)
SUBJECT: Wake Transit ADA Policy and Service Guidelines and Performance Measures
Administrative Document

Ensure an attractive and accessible transit environment

Staff Recommendation
Staff requests the committee to adopt both the Wake Transit ADA Policy and Service Guidelines
and Performance Measures document.

Item Summary

Wake Transit ADA Funding Policy
The Wake Transit Plan also includes investments in demand-response services, such as
complementary paratransit, which is required by the Federal Transit Administration (FTA) and the
Americans with Disability Act (ADA) to ensure access to public transit for individuals unable to use
or travel to or from fixed-route transit services due to a disability. As the Wake Transit Plan
expands fixed-route transit service, there will be an increase in the availability and use of
complementary paratransit, particularly at times or in places where transit service was not
previously available.

The policy recommends how the Wake Transit Plan will account for the costs of providing
complementary paratransit (ADA paratransit) associated with an expanded transit network in
Wake County. In the context of the Wake Transit Plan, accounting for ADA paratransit costs
includes:

- Budgeting or the process for estimating the amount of money the Wake Transit Plan
  should set aside to pay for growth in ADA paratransit.
- Reimbursements, or how individual transit agency partners should seek payment
  (reimbursements) from the Wake Transit Plan for ADA paratransit costs incurred as part of
  implementing the Wake Transit Plan.

This policy applies to the providers that provide ADA complementary services required by fixed
route transit service funded through Wake Transit. This policy does not apply to providers who
received funding from the Community Area Funding Program. The ADA funding policy
recommends the Wake Transit Plan creates a 15% set aside for ADA paratransit costs representing
15% of the fixed-route budget for each provider.
Wake Transit Service Guidelines and Performance Measures

The Wake Transit Plan Service Guidelines and Performance Measures establish a framework and rationale for the operation and investment in transit services in Wake County. Service design guidelines set consistent standards by service type, so that similar types of service are implemented the same way across the county, so riders can trust that services will be available when they need them. Performance measures track and report on the productivity of individual services and the overall network. The combined framework is intended to communicate a clear, consistent, and equitable investment strategy that is understandable to the Wake Transit Bus Plan’s stakeholders, including transit riders, transit operators, elected officials, and taxpayers.

The service level standards are determined based on five standards:

1. Span of Service: Sets route start and end times.
2. Service Frequencies: Recommends how often transit service is operated.
3. Passenger Loads: Establishes acceptable levels of passenger volumes relative to the number of available seats.

The performance measures includes metrics that focus on service quality, service effectiveness, cost effectiveness, service impact, and customer satisfaction.

1. Service Quality: On-time performance - compares scheduled and actual bus departure and arrival times at fixed time points.
2. Service Effectiveness: Productivity
   i. Riders per revenue hour – the number of boarding’s divided by the total number of hours the vehicles on a route are in service.
   ii. Riders per revenue trip – the number of boarding’s divided by the number of trips a route makes during the day. Peer agencies use this metric as a more appropriate way to measure routes that run fewer trips each day over longer distances.
3. Cost Effectiveness: Operating Costs
   i. Operating Cost per Rider – the amount spent on operating a bus route (fuel, vehicle maintenance and repairs, and operator wages and benefits) divided by the number of riders carried on the bus route.
4. Service Impact: Equity
   i. The Service Impact measure qualifies bus routes for a relaxed standard, given the added impact of serving low-income and historically disadvantaged communities.
   ii. CAMPO’s 2050 Metropolitan Transportation Plan developed a methodology to identify “communities of concern” for environmental justice analysis using six American Community Survey metrics: race (non-
white), ethnicity (Hispanic or Latino origin), poverty (below 150% of the poverty line), elderly population (65+), vehicle availability (zero-vehicle households), and English proficiency (people who do not speak English or speak English “less than very well”). A block group meets the indicator threshold for each metric if the percentage of the targeted population is in the 75th percentile of all CAMPO block groups.

iii. Bus routes would be eligible for a FIXED service impact benefit if at least 50% of the stops are located within one-quarter mile of block groups that include at least four (4) equity groups identified on CAMPO’s communities of concern map.

iv. Bus routes that qualify for the FIXED service impact benefit are required to meet 80% of the standard for riders per hour / riders per trip and 120% of the standard for cost per rider.

v. Bus routes would be eligible for a VARIABLE service impact benefit if at least 25% of the stops are located within one-quarter mile of block groups that include at least four (4) equity groups identified on CAMPO’S communities of concern map.

vi. Bus routes that qualify for the VARIABLE service impact benefit are required to meet the annual standard for riders per hour/riders per trip less 5% (-5%) and the annual standard for cost per rider plus 5% (+5%).

5. Customer Satisfaction Customer Satisfaction Survey

i. Each of the transit providers in Wake County will administer an annual customer satisfaction survey to gauge customer satisfaction. The goal is to ensure each transit provider prioritizes accessibility, comfort, security, reliability, cleanliness, courtesy, and communication.

Financial Impact

**ADA Policy:** GoTriangle will be reimbursed by the Wake Transit Plan for federally mandated paratransit trips provided in Wake County. The policy authorizes GoTriangle to be reimbursed 15% of the total amount of fixed service transit operations funded by the Wake Transit Plan recommended by the board, the proposed policy will have zero financial impact to the FY24 Wake Transit Work Plan. The FY25 financial impact is currently being calculated as part of the FY25 Wake Transit Work Plan development process and is anticipated to be $627,495.

**Service Guidelines and Performance Measures:** If recommended by the board, the proposed policy will have no financial impact

**Attachments**
- ADA Policy
- Service Standards and Performance Guidelines

PO Box 13787
Research Triangle Park, NC 27709
P: 919.485.7510 | F: 919.485.7547

www.gotriangle.org
WAKE BUS PLAN: ADA FUNDING POLICY draft was recommended by the TPAC Program Development Subcommittee on October 24, 2023. Public engagement period conducted from November 6-20, 2023. TPAC consideration is scheduled on December 13, 2023, with Wake Transit governing board consideration anticipated to occur in January 2024.

Once adopted, this policy will take effect in the next full quarter of Wake Transit Operations. If adopted on the schedule noted above, it will become applicable for the reimbursement of ADA paratransit expenditures accrued within the 3rd quarter of FY2024 (January 1-March 31, 2024).
1 Introduction

The Wake Transit Plan supports increased transit investment in Wake County, with transit development organized around “Four Big Moves”:

- Connect the region
- Connect all Wake County communities
- Create frequency and reliable urban mobility
- Enhance access to transit

The Wake Transit Plan also includes investments in demand-response services, such as complementary paratransit, which is required by the Federal Transit Administration (FTA) and the Americans with Disability Act (ADA) to ensure access to public transit for individuals unable to use or travel to or from fixed-route transit services due to a disability. As the Wake Transit Plan expands fixed-route transit service, there will be an increase in the availability and use of complementary paratransit, particularly at times or in places where transit service was not previously available.

This technical memorandum recommends a policy for how the Wake Transit Plan will account for the costs of providing complementary paratransit (ADA paratransit) associated with an expanded transit network in Wake County. In the context of the Wake Transit Plan, accounting for ADA paratransit costs includes:

- **Budgeting**, or the process for estimating the amount of money the Wake Transit Plan should set aside to pay for growth in ADA paratransit.

- **Reimbursements**, or how individual transit agency partners should seek payment (reimbursements) from the Wake Transit Plan for ADA paratransit costs incurred as part of implementing the Wake Transit Plan.

This policy applies to the providers that provide ADA complementary services required by fixed route transit service funded through Wake Transit. This policy does not apply to providers who received funding from the Community Area Funding Program.

**TASK OVERVIEW**

The ADA Funding Policy was prepared as part of the 2023 Wake Transit Plan’s Wake Bus Plan; it was designed to clarify the process for budgeting and reimbursing costs of providing ADA paratransit associated with expansion and growth in the underlying regional fixed-route network. The policy was intended to be simple to understand, easy to use and replicate, and reward efficient operations. The policy also seeks to balance differences among the Wake transit providers while creating a consistent approach.
ADA COMPLEMENTARY PARATRANSIT REQUIREMENTS

Under the ADA, transit agencies providing non-commuter fixed-route transit services must offer demand-response paratransit service as a complement to their fixed-routes. Complementary paratransit (or ADA paratransit) is intended to provide service to people with disabilities who cannot access fixed route service because of a disability.

In a bus system, ADA paratransit must be provided to eligible individuals during the same days and hours and within ¾ mile of fixed routes, and paratransit fares cannot exceed twice the fixed-route fares. Transit agencies must accept trip requests up to the day prior to travel and must accommodate demand without constraints on capacity. Individuals wishing to travel on ADA paratransit must apply for and be determined eligible for the service. The Federal Transit Administration (FTA), which oversees transit agency ADA compliance published an ADA Circular¹ that more fully describes these requirements and offers technical guidance on implementation.

2 Existing Conditions: ADA Budgets and Reimbursements

OVERVIEW

The first step in developing a policy for future processes was to consider how the budgeting and reimbursements work today. The Wake Bus Plan team examined existing conditions by reviewing the 2018 Wake Bus Plan and Annual Work Plans. The team also interviewed representatives of each of the three transit providers to understand how they budget ADA costs, estimated costs, and requested reimbursements. The team asked agency staff for their perspectives on how well the existing methods work and used the meetings to request available data specific to ADA budgeting and reimbursements.

Key findings from the data and conversations included:

- Transit providers spend a considerable portion of their operating budgets providing ADA paratransit services. ADA paratransit costs have been increasing year on year for the past several years (see Figure 1)².
- Transit operators have not consistently requested reimbursement for ADA costs incurred as part of the Wake Transit Plan.
- ADA costs are increasing, due in part to inflation, escalation in driver pay, and regional population growth.
- ADA ridership is in flux. After year-on-year increases between FY16 and FY19, ridership softened, as the impact of COVID-19 was felt across all services. ADA ridership, like all transit ridership, started to recover in 2021 and 2022. ADA riders are returning to the system in part because of the suspension of fares means ADA services are also free.

GoRaleigh and GoTriangle are spending an increasing portion of their systemwide costs on ADA services. Depending on the agency, ADA paratransit costs represent between 15% and 25% of overall operating costs (see Source: National Transit Database (adapted by Nelson\Nygaard)

- Figure 2).

² GoCary is not included because analysis is based on NTD. GoCary’s ADA costs are combined with other demand response service operated by the agency.
National experience suggests that ADA demand (or ridership) is broadly linked to population, poverty levels, and the underlying transit service. ADA demand is also influenced by the overall usability of the network; as the network expands and fills in, it will provide access to more destination, be more useful to more people, including people using ADA service.

Both the budgeting process for setting aside funds to cover ADA costs and the process to request reimbursement for ADA expenses has been inconsistent and complicated for transit operators.

There is a strong desire among providers currently operating ADA complementary service to support Wake Transit funded projects, for the process to both estimate (budget) costs and reimburse expenses using a method that is clear, consistent, and simple.

Over time, Wake Transit Plan funded bus services will be mixed in with nearly all bus routes operating in the County. This means that it will become harder to attribute increased ADA costs to specific Wake Transit Plan bus route or service investments.

Transit operators have not consistently requested reimbursement for ADA costs incurred as part of the Wake Transit Plan.

Figure 1 ADA Costs by Agency (2016 – 2021) in 000s

Source: National Transit Database (adapted by Nelson\Nygaard)
ADA BUDGETING AND REIMBURSEMENT METHODS

Background

As part of the Wake Transit Plan, regional stakeholders prepare a multi-year operating and capital plan (the Wake Bus Plan) every four years. The Bus Plan creates a long- and short-term strategy for how the Wake Transit Plan will invest in bus service over a nine-year period (FY19 – FY27) as well as short range transit plans for the four-to-five-year period (FY19 – FY23). Fixed route service and capital are planned, prioritized, and programmed as part of this process within the financial constraints of available revenues. The costs of providing ADA services are included as part of this process.

The Wake Transit Plan refines the projects programmed in the Wake Bus Plan each year as part of developing Annual Work Plans. As part of the Annual Work Plans, stakeholders adjust and refine the projects recommended in the Wake Bus Plan based on changes and recent experience with implementation.

The 2018 Wake Bus Plan programmed service and capital investments for the years between FY18 and FY27 and prepared short range transit plans for FY18 – FY23. The 2023 Wake Bus Plan estimated ADA operating costs as a separate line item that is not assigned to individual transit operators. The cost estimates were developed based on changes to the overall (systemwide) bus service investments, such as increased span of service on several bus routes and new fixed route bus projects that expand service into new areas. Funds budgeted for ADA, however, were not assigned to a specific transit operator.
Budgeting ADA Paratransit Costs

As the Wake Bus Plan transitioned into Annual Work Plans, the process for estimating the cost of ADA services evolved, reflecting a combination of experience and need:

- **FY 2018 and FY 2019: ADA costs were estimated on a system-wide basis, based on fixed route investments:** As described above, initial cost estimates for ADA services were influenced by the programmed fixed-route services but developed separately. They did not assign costs or budgets to individual transit operators.

- **FY 2020: ADA costs budgeted as part of specific fixed route service costs:** As part of the Wake Transit Plan Vision Update, ADA costs were assigned as a separate line item and tied to specific fixed route investments. In some cases, costs (funds) were assigned to specific transit operators. For example, GoRaleigh’s Northwest Route Additions were budgeted at $4,385,463 and associated ADA costs were budgeted at $356,700.

- **FY2021 – FY 2023: ADA costs budgeted as single line items:** Beginning with the FY21 Annual Work Plan and continuing through FY23, each provider’s anticipated ADA costs were presented as a separate line item. In FY23, annual workplans also include a reserve fund titled ADA/Paratransit Operations Expansion.

Reimbursing ADA Paratransit Costs

Neither the Wake Bus Plan nor the Annual Work Plan specified a process for reimbursing operators for the costs of ADA services. This contrasts with reimbursements for fixed route service improvements, where costs are clearly included in the annual work plans; each fixed route project has an associated cost estimate. Operators agree to implement these fixed route projects and request reimbursement based on actual costs.

The transit operators do not have a specific method for requesting reimbursements. Each operator used different methods to estimate the additional cost of ADA services and requested funding, or in some cases operators did not request reimbursement at all. Indeed, only GoRaleigh requested reimbursements each year; GoCary requested reimbursements for ADA services in FY22 and GoTriangle has not requested any costs associated with operating ADA services to date.

**TRANSIT OPERATOR PERSPECTIVE**

Individual transit operators have had different experiences and taken different approaches with regards to ADA services. The experience of each operator is described below together with available data on funding assigned to ADA services and the amount reimbursed.

**GoCary**

GoCary is the smallest transit provider in Wake County, both in terms of its service area and in the amount of service operates. GoCary operates ADA paratransit beyond the ¾-mile minimum required by ADA and operates demand-responsive services for residents aged 60 or older. Data included in this analysis is for the ADA service associated with the Wake Transit Plan only. See Appendix A for additional background and data sources.
GoCary implemented new fixed route service projects each year between FY18 and FY22. In the first two years, there was not a separate line item for ADA costs, but ADA costs were called out in FY20, FY21 and FY22. There is no clear justification for how the estimate for ADA costs was developed; as a portion of fixed route services, the budgeted cost estimate ranges from 4.4% in FY20 to 6.4% in FY21 (see Figure 3).

GoCary has requested reimbursements from the Wake Transit Plan each year, but historically has not requested the full amounts allocated. In FY20 when ADA costs had a specific amount set aside for ADA service, GoCary did not request reimbursement. FY21 was the first year that GoCary requested reimbursements for increased ADA service costs; it is unclear if GoCary submitted materials or information to justify the reimbursement.

GoRaleigh

The region’s largest transit provider, GoRaleigh operates more bus routes than any other provider; it also provides more ADA trips. Between 2019 and 2021, GoRaleigh’s systemwide ADA costs were between 16% and 27% of the costs of their fixed route\(^3\). Additional information on GoRaleigh’s service is available in Appendix A.

GoRaleigh has been at the forefront of Wake Transit Plan development, responsible for implementing significant portions of the fixed route service expansion. Wake Transit Plan budget increases range from $1.6 million in projects in FY18 to more than $15 million in FY22. Costs for expanded ADA services were also included in the budget. As a percentage of Wake Transit funded fixed route service, the ADA allocations were 11.5% in FY20 and FY21 and 14.1% in FY22 (see Figure 4).

\(^3\) National Transit Database
GoRaleigh has been requesting ADA reimbursements from the Wake Transit Plan. GoRaleigh’s invoices for ADA service ranged between 8.8% and 21.2% of amounts invoiced for fixed route service. The reimbursement process varied according to the budgeting method. When the published Wake Transit Plan did not include a specific line item for ADA paratransit costs,

- In FY18, when ADA costs could easily be tracked to the addition of Sunday ADA service, it was billed to the Wake Transit Plan.
- FY19 ADA costs reflect the addition of routes in southeast and northwest Raleigh, as well as some additional costs not explicitly specified.
- In FY20 and FY21, GoRaleigh adjusted costs it billed to Wake Transit Plan funds to account demand and experience in the field.

Figure 4  GoRaleigh Fixed Route and ADA Budgets and Reimbursements FY18 – FY22

<table>
<thead>
<tr>
<th>Mode/Year</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work Plan budgeting method</td>
<td>Combined</td>
<td>Combined</td>
<td>Project-based</td>
<td>ADA/fixed separate</td>
<td>ADA/fixed separate</td>
</tr>
<tr>
<td><strong>Budgets</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed route budget</td>
<td>N/A</td>
<td>N/A</td>
<td>$13,612,492</td>
<td>$10,844,012</td>
<td>$10,514,774</td>
</tr>
<tr>
<td>ADA budget</td>
<td>N/A</td>
<td>N/A</td>
<td>$1,563,457</td>
<td>$1,247,999</td>
<td>$1,477,885</td>
</tr>
<tr>
<td>Combined budget</td>
<td>$1,550,920</td>
<td>$7,123,875</td>
<td>$15,175,949</td>
<td>$12,092,011</td>
<td>$11,992,659</td>
</tr>
<tr>
<td>ADA percentage of FR budget</td>
<td>N/A</td>
<td>N/A</td>
<td>11.5%</td>
<td>11.5%</td>
<td>14.1%</td>
</tr>
<tr>
<td><strong>Reimbursements from Wake Transit Plan</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reimbursed fixed route</td>
<td>$1,279,511</td>
<td>$5,015,851</td>
<td>$6,700,241</td>
<td>$7,662,647</td>
<td>TBD</td>
</tr>
<tr>
<td>Reimbursed ADA</td>
<td>$271,409</td>
<td>$440,754</td>
<td>$1,378,490</td>
<td>$1,083,679</td>
<td>TBD</td>
</tr>
<tr>
<td>Total Reimbursed</td>
<td>$1,550,920</td>
<td>$5,456,605</td>
<td>$8,078,731</td>
<td>$8,746,326</td>
<td>TBD</td>
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<tr>
<td>ADA percentage of FR budget</td>
<td>21.2%</td>
<td>8.8%</td>
<td>20.6%</td>
<td>14.1%</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Source: Adopted work plans, GoTriangle, GoRaleigh
Note: although not specified in the FY18 and FY19 Adopted Work Plans, GoRaleigh separately provided ADA budget amounts, which are shown in the table.

GoTriangle

As the provider of regional fixed-route transit service, GoTriangle provides regional ADA trips. Compared with other transit providers in Wake County, GoTriangle’s ADA trips are longer distance and more expensive to deliver. Between 2019 and 2021, GoTriangle ADA costs were roughly 20% of fixed route costs\(^4\) (see Appendix A for additional background and data sources).

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\(^4\) National Transit Database
GoTriangle expanded their fixed route services each year between FY18 and FY22. Wake Transit Plan budgets also include funding to cover the costs of expanded ADA services. The amounts budgeted, however, range considerably from 6.3% in FY20 to 10.8% in FY22 (see Figure 5).

GoTriangle has requested reimbursements for costs associated with fixed route service expansion, but not ADA service.

**Figure 5** GoTriangle Fixed Route ADA Budgets and Reimbursements FY18 – FY22

<table>
<thead>
<tr>
<th>Mode/Year</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work Plan budgeting method</td>
<td>Combined</td>
<td>Combined</td>
<td>Project-based</td>
<td>ADA/fixed separate</td>
<td>ADA/fixed separate</td>
</tr>
<tr>
<td>GoTriangle Budgeted Funding from Wake Transit Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed route budget</td>
<td>N/A</td>
<td>N/A</td>
<td>$2,422,837</td>
<td>$3,405,704</td>
<td>$4,344,213</td>
</tr>
<tr>
<td>ADA budget</td>
<td>N/A</td>
<td>N/A</td>
<td>$152,902</td>
<td>$187,285</td>
<td>$468,385</td>
</tr>
<tr>
<td>Combined ADA and fixed-route budget</td>
<td>$1,749,590</td>
<td>$2,071,419</td>
<td>$2,728,641</td>
<td>$3,672,989</td>
<td>$4,812,598</td>
</tr>
<tr>
<td>ADA percentage of FR budget</td>
<td>N/A</td>
<td>N/A</td>
<td>6.3%</td>
<td>5.4%</td>
<td>10.8%</td>
</tr>
<tr>
<td>Reimbursements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FR reimbursed</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>$2,267,868</td>
<td>TBD</td>
</tr>
<tr>
<td>ADA reimbursed</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>TBD</td>
</tr>
<tr>
<td>Total Reimbursed</td>
<td>$1,494,580</td>
<td>$1,940,842</td>
<td>$2,068,929</td>
<td>$2,267,868</td>
<td>TBD</td>
</tr>
</tbody>
</table>

Source: Adopted work plans, GoTriangle; N/A – not available.
3 ADA Funding Policy

The ADA Funding Policy is designed to clarify and layout a process for budgeting and reimbursing costs associated with providing ADA paratransit services related to expansion and growth of Wake Transit Plan funded fixed-route transit investments. Direction from the Wake Transit Plan Working Group specified that the recommended policy should be simple, easy to understand, easy to administer, and ideally reward efficient operations.

METHODS DEVELOPED AND EVALUATED

The consultant team investigated three methods for budgeting and reimbursing ADA paratransit costs. These methods reflect direction provided by the Working Group as well as existing conditions, provider feedback, and available data. The methods were selected to reflect increased ADA costs attributable to fixed-route expansion and not ADA cost growth that occurs over time regardless of fixed-route system expansion. ADA cost growth unrelated to fixed-route expansion is typical, primarily due to inflationary pressures (i.e., wages, benefits, and fuel costs).

The three potential methods include (see also Figure 6):

1. A ridership growth analysis that relies on spatial analysis to attempt to identify ADA paratransit trip growth associated with specific Wake Transit Plan investments.

2. A ridership and cost-trend analysis using data from prior years to develop a baseline of ADA costs and use increases above this baseline to estimate costs attributable to Wake Transit Plan investments.

3. A budget and reimbursement analysis that uses spending on fixed-route service as a proxy for ADA costs.

Figure 6 Summary of Methods Considered for Attributing ADA Costs to Wake Transit Plan

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
<th>Summary of Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spatial Analysis</td>
<td>Identify where services have been added. Measure the addition of new riders traveling from/to these newly served areas or benefiting from stronger connections to key parts of the transit network.</td>
<td>This method was not pursued because not enough time has elapsed since routes were implemented and data was not available on growth in new riders or increased travel within areas of new service.</td>
</tr>
<tr>
<td>Ridership and Cost Trend Analysis</td>
<td>Evaluate historical data on trips provided, operating expenses, productivity, and other metrics and use trends to forecast future demand.</td>
<td>Clear patterns did not emerge from provider reports or from FTA National Transit Database (NTD) data. The pandemic is partly to blame for this lack of clarity.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
<td>Summary of Findings</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Budget and Reimbursement Analysis Based on Fixed-Route</td>
<td>Ties growth in ADA costs to growth in fixed-route costs and compares budgets and reimbursements to identify trends.</td>
<td>This method is recommended, focusing on ADA as a percentage – or ratio - of fixed-route costs.</td>
</tr>
</tbody>
</table>

**SPATIAL ANALYSIS**

**Overview**

One way to account for ADA trip costs is to identify places where new or more frequent bus service is added and assign trips in the travel shed to the Wake Transit Plan. Indeed, this was one of the earlier techniques used to estimate ADA costs attributed to the Wake Transit Plan.

With new ADA service areas mapped, this approach looks to identify important destinations (e.g., medical and shopping) that would be served by new routes as well as people living in newly served areas. In addition to considering the uses within these zones, the method evaluates registered riders whose addresses fall within ¾ mile of new bus routes.

A key benefit of this approach is the ability to see changes directly attributable to service being added where no fixed-route service previously operated. In places where service spans are increasing, or where stronger connections are provided, a related potential measure is increased travel. To use this approach, reliable data on registered riders and their travel patterns is required. In other words, if more people are applying for ADA paratransit eligibility or previously eligible riders are traveling more frequently or to new areas, trends associated with fixed-route expansion would emerge.

A key challenge of this approach is the need to evaluate the origins and destinations of individual trips and to evaluate these locations spatially to determine whether the trip is due to new or expanded service. Further, as the Wake Transit Plan is implemented, the addition of new routes, increased frequencies and longer spans of service will continue to improve regional mobility by strengthening connections. For those residing in or traveling to newly served areas, access to ADA within ¾ mile of new fixed routes should lead to growth in ADA travel.

**Application of Approach**

The team requested data on location-based travel and the number of newly eligible riders from each provider. We used this information to “test” the approach and evaluate how well the approach reflected the experiences of each operator.

- GoRaleigh provided data for a single month across 2017–2020 including top destinations served by address and zip code. This is useful information to compare trends but did not show any commonalities between destinations and zip codes. The data on certifications was presented for a single year.

- GoTriangle provided the geographic location of registered riders along with service detailed and cost statistics by month. This information enabled analysis of ridership trends but did not include information on new rider growth or trends in individual rider travel.
Wake Bus Plan ADA Funding Policy

- GoCary provided tracking data on annual growth in registered riders from 2016–2021. They also provided detailed information on pickup and drop-off addresses of all trips provided by the client. This information would prove useful for a spatial analysis, but GoCary had not implemented any expansion of service until 2021 and not enough time had passed for meaningful analysis.

Evaluating the data showed that it is not technically expedient or efficient. The data readily available from the operators was not sufficiently detailed to estimate increased demand for ADA trips or the cost of providing those trips. In addition, not enough time passed between implementation of new or expanded fixed-route services to identify clear trends, particularly due to ridership declines once the pandemic began in March 2020. As a result, the team does not recommend pursuing this strategy to estimate ADA demand or costs:

- The availability of data from each of the three providers and the relatively short time that has elapsed between initiation of expanded fixed-route services and the onset of the pandemic. Future ADA funding policy modifications could consider a spatial approach, particularly for providers that can readily track this data.

- As time passes, the integration of Wake Transit Plan funded services into the existing network will make it harder to determine how to assign costs.

- Providers that have access to trend data that can attribute ADA cost growth to fixed-route service expansion can provide such documentation as the basis for seeking higher than budgeted ADA reimbursements.

RIDERSHIP AND COST TREND ANALYSIS

Overview

Another method for budgeting and reimbursing costs is to establish a baseline of ADA costs and attribute additional ADA costs to the Wake Transit Plan. The approach is intuitively appealing, because it allocates increased activity (either new trips or costs above a baseline amount) to increased growth and development of funded Wake Transit Plan investments.

Application of Approach

As mentioned, for each potential method of estimating ADA demand and costs, the team tested the approach to determine how well it would replicate the experiences of each operator.

The Wake Bus Plan team needed to establish a baseline, which could either be the number of ADA trips or the costs of providing ADA service. The team used data available from the Federal Transit Administration (FTA) National Transit Database (NTD) to understand ADA ridership, cost, and productivity. The data was isolated to include GoTriangle ADA trips made within Wake County and to limit GoCary’s demand response service to ADA trips only.

The data shows COVID had a negative impact on ADA demand and costs; providers provided fewer trips in FY20 compared with previous years. There are no clear costs and ridership trends over the four-year period. Ridership data indicates that while GoTriangle has showed clear, steady growth in ADA paratransit trips, GoCary’s demand has been flat and GoRaleigh’s demand for ADA first increased and then decreased (even before COVID) (see Figure 7). Cost data shows year-on-year growth for all three providers. The rate of growth is not consistent, making
the reimbursement stream uneven and suggesting it would require annual adjustments (see Figure 8).

**Figure 7**  
**ADA Trips Provided (FY16 – FY21)**

![Graph showing ADA Trips Provided (FY16 – FY21)]

Source: NTD  
Note: GoTriangle data adjusted for Wake County service; GoCary data is adjusted for ADA only

**Figure 8**  
**ADA Operating Expenses by Transit Operator (FY16 – FY21)**

![Graph showing ADA Operating Expenses by Transit Operator (FY16 – FY21)]

Source: NTD  
Note: GoTriangle data adjusted for Wake County service; GoCary data is adjusted for ADA only
A comparison of total ADA operating expenses over the baseline year (FY16) using NTD data (see Figure 9) shows year on year growth for GoTriangle and GoCary. ADA reimbursement data for these years is not available since it was either combined with fixed route reimbursements or not requested. GoRaleigh’s costs and reimbursements vary, meaning that clear patterns or trends could not be isolated to support this method.

**Figure 9** Total ADA Expenses (Baseline (FY16) to FY21) from NTD and Reimbursements

<table>
<thead>
<tr>
<th>Provider/Category</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
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<tr>
<td>GoTriangle (NTD)</td>
<td>$1,976,116</td>
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<td>$2,201,327</td>
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<td>Amount over baseline</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>N/A</td>
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<td>Go Raleigh (NTD)</td>
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<td>N/A</td>
<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
<td>$294,462</td>
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</table>

Sources: FTA NTD data, GoTriangle, GoRaleigh

Notes: GoTriangle NTD data adjusted for Wake County service (65% of all Access costs); GoCary data is ADA only (33% of all demand-response service)

ADA reimbursements for several years of data were not separately available for GoCary or GoTriangle; first year of ADA reimbursements was FY18.

The team reviewed and analyzed other potential metrics that track ADA demand and costs and could be used as a baseline such as ADA cost as a percent of fixed route, cost per hour, cost per trip, and trips per revenue vehicle hour. Similar difficulties arose with considering other metrics, namely trends are not consistent within or across providers. Further, while the increases over the baseline work for a reimbursement policy, it is not helpful in estimating an amount to be included in work plan budgets (e.g., future costs).

While the approach was compelling and offered a simple, straightforward way to reimburse costs, the lack of robust, comparable data to create a baseline undermined any potential advantages.
Further, the inability to use the baseline approach to estimate future costs suggests that this is not the recommended approach.

**ADA COSTS AS PERCENTAGE OF FIXED ROUTE**

**Overview**

A third potential method is to budget ADA costs as a percentage of fixed route costs. This is an appealing approach because:

- It is simple and straightforward. It potentially allows transit agencies to be treated equally.
- It can be used to budget for future costs as well as a broad tool for reimbursing transit agency costs.
- It is consistent with the past few Wake Transit Plan budgeting approaches, where ADA was estimated as a percentage of spending on fixed routes. This approach has also generally worked since it has set aside enough resources to pay for agency costs associated with ADA service.
- ADA costs can be set in line with total fixed route spending, so that as agencies spend more money on fixed route services, they have larger budgets for ADA service.

**Application of Approach**

The team initially considered recommending setting aside 10% of fixed route service costs for ADA funding. This amount was used in the past and historically has been sufficient to cover reimbursements. However, the data shows that systemwide ADA costs are between 15% and 25% of fixed route costs (i.e., for every $1.00 spent on fixed route service, operators spend between $0.15 and $0.25 on ADA service). While the marginal cost of ADA costs associated with service expansion will be lower than for the system overall, 10% was too conservative especially given wage and fuel increases experienced by operators in the past several years.

The Wake Bus team evaluated the potential of using 15% as the amount for budgeting and reimbursement purposes, considering both how well the 15% set aside would have matched with amounts allocated in the Wake Transit Plan and requested for reimbursement. The analysis suggests that the flat 15% would be higher than the amount included in the Annual Work Plan for both GoTriangle and GoCary. The amount allocated for GoRaleigh, however, was closer, adding roughly $100,000 to the budgeted amount.

Despite overestimating the historical budgets and reimbursements, this approach has some technical merits, namely:

- Data for the past few years shows that GoCary, GoRaleigh and GoTriangle spend between 15% and 25% on ADA service as a portion of fixed route service.
- The marginal cost of Wake Transit Plan investment in fixed route service is expected to be less than 20% and 25% because investments have been associated with increased hours of operation and frequency of service, which will lead to lower levels of ADA demand due to increased access to fixed route services. Even assuming lower marginal costs, the data suggests that the Wake Transit Plan may have been underestimating the increased costs associated with ADA service.
As new bus routes are added and the network expands overall, the usefulness of ADA will increase and encourage more trips by more riders.

Using a 15% standard or benchmark is easily understandable for transit operators, stakeholders, and members of the public. It is also traceable such that if reimbursements increase dramatically, they can be compared with systemwide spending on ADA to ensure transit operators are not shifting ADA costs associated with the existing system to the Wake Transit Plan.

An important caveat to estimating costs and permitting reimbursements based on a portion of fixed route service is limited accountability between funding and service delivery, including service efficiency. For many transit operators, the cost of providing each trip has significantly outpaced demand, meaning transit operators are spending more to provide less service. While service and cost efficiency are an important consideration, given historic challenges with budgeting and reimbursements, our recommendation is to use the Service Guidelines and Performance Measures to monitor efficiency and keep the costing and reimbursements straightforward.

Based on these findings and recommendations, the Wake Bus Plan team recommends budgeting and reimbursing ADA costs at a rate of 15% of the costs of fixed route service. This means for example, if a transit operator spends $1.00 to implement Wake Transit Plan funded fixed route service, they should be reimbursed $0.15.

Figure 8  Comparison of Budgeted Wake Transit Plan ADA Costs vs. Possible 15% allocation FY22

<table>
<thead>
<tr>
<th></th>
<th>GoTriangle</th>
<th>GoCary</th>
<th>GoRaleigh</th>
<th>Total</th>
</tr>
</thead>
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<td>Fixed Route Service Budgets (Increased Service Funded by Wake Transit Plan)</td>
<td>$4,464,213</td>
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<td>$10,514,774</td>
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<td>Amount Budgeted for Increased ADA Costs</td>
<td>$348,385</td>
<td>$132,360</td>
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<td>15% ADA allocation (Hypothetical)</td>
<td>$669,632</td>
<td>$300,542</td>
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<tr>
<td>Difference (Amount Budgeted Compared with Proposed Allocation)</td>
<td>$321,247</td>
<td>$166,182</td>
<td>$99,331</td>
<td>$588,760</td>
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</tbody>
</table>

Sources: FY21 and FY22 Adopted Wake Transit Work Plans, Nelson\Nygaard analysis (rounded to nearest $100,000)
4 Recommendations

The Nelson\Nygaard team offers several recommendations for budgeting, reimbursements, ADA eligibility, and needs for future data that will simplify the process for future work plans, lead to better policies, and address growth in ADA demand.

BUDGETING ADA COSTS

Budget ADA at 15% of fixed route costs.

The ADA funding policy recommends the Wake Transit Plan creates a 15% set aside for ADA paratransit costs representing 15% of the fixed-route budget for each provider. The team recommends this approach because it is simple and straightforward and strikes an appropriate balance between ensuring an appropriate amount is set aside so ADA costs can be reimbursed and not restricting funds needed for other Wake Transit Plan investments.

The 15% set aside should be based on the costs associated with Wake Transit Plan-funded fixed route transit services, so that as the costs of the bus network increase, so do resources for ADA paratransit services.

The 15% set aside be used for budgeting purposes as early as the FY24 Annual Work Program.

REIMBURSING ADA COSTS

As discussed, the ADA funding policy set out to recommend an approach for both budgeting and reimbursing ADA paratransit costs.

Reimburse ADA costs at 15% of fixed route costs.

The ADA funding policy recommends that individual transit providers should request reimbursements from the Wake Transit Plan for 15% of fixed route costs. This reimbursement may be requested without requiring justification beyond proof of implementing fixed route service.

Using a percentage of fixed route costs indirectly rewards efficiencies by capping the rate of reimbursements and rewarding agencies who can provide service for less than that amount. Further, service efficiency and cost effectiveness will be monitored in the Wake Transit Plan Service Guidelines and Performance Measures.

The flat 15% rate could be used for reimbursements as early as FY24.
Reimbursements Over 15%

The ADA funding policy recommends that individual transit providers may request reimbursement for costs incurred beyond 15% if they are able to provide justification for the additional costs. The method each provider uses should reflect access to internal data and be consistently applied each year. Examples include increases in the number of eligible riders, increased trips taken per rider, or higher service delivery costs that are greater than previous trends.

If a request for reimbursement is more than 15%, the provider must request approval by TPAC. Upon approval by TPAC, the Tax District Administration may authorize the release of funding to the requestor.

SUPPORTING RECOMMENDATIONS

Include ADA in Service Guidelines and Performance Measures

The cost of providing ADA paratransit service has increased between FY16 and FY21. Some of the cost increases reflect inflationary pressures on driver wages and fuel costs, the suspension of fares as well as changes in how riders use the service. As mentioned, using a ratio of 15% for reimbursements puts a cap on the amount of funds available to provide the service and incentivizing agencies who can deliver service for less than that amount.

At the same time, the ADA funding policy also recommends using the Wake Bus Plan Service Guidelines and Performance Measures to track and monitor the cost efficiency and service effectiveness of ADA services by transit agency.

ADA Paratransit Eligibility and Access to Bus Stops

ADA paratransit is intended to serve as a safety net for individuals who, because of their functional disabilities, cannot travel to/from or ride fixed-route transit. In fact, the DOT ADA regulations require transit agencies to “strictly limit” ADA paratransit eligibility to individuals who meet the regulatory criteria for eligibility. This involves having a robust and consistently applied eligibility determination process, and for those who can use fixed-route service under certain circumstances, designing and then applying travel rules that encourage rides to travel on fixed-route service when they are able. As an outgrowth of the adopted Coordinated Public Transit-Human Services Transportation Plan, the region’s transit providers are working to create a consistent framework for Wake County’s ADA services and to coordinate the management and delivery of ADA services. This vehicle should also be used to develop consistent data metrics that can be used for the WTP ADA funding.

In addition, as part this project’s capital planning task, the team is identifying priority locations to improve access to transit. Implementing sidewalk and curb ramp improvements will of course help all individuals who walk or roll along these corridors. It will also help encourage individuals with disabilities who can ride a fixed-route bus to do so instead of having to reserve paratransit trips in advance.

ADA Data Tracking and Reporting

Better data is needed to measure changes in ADA demand associated with fixed-route service expansion attributable to Wake Transit Plan. While each provider compiles service data for the
Federal Transit Administration’s National Transit Database (NTD), and each has access to additional data, the work completed for this task has shown that it is difficult to discern patterns in ridership growth. Some of the challenges are inherent to the variability in demand, other factors that contribute to growth such as the rapid growth in regional population, and the way that paratransit is operated, including fare policies. Further, current challenges in hiring and retaining drivers have driven costs higher.

**Tracking Growth in ADA Riders**

The team recommends dedicating ADA staff resources to tracking the number of ADA-eligible riders by provider and working to attribute growth to WTP implementation vs. organic growth. This requires research into each provider’s rider database to confirm which riders have traveled within a certain period and designating such riders as active. This can be done in conjunction with a periodic recertification process (typically every three years). Having a registry of active riders can serve as a baseline for tracking both the growth in the number of registered riders and the number of trips each rider takes.

It is important to note that some riders are registered with more than one provider, particularly if they make regional trips. For the WPT, it is also important to track those riders who travel within Wake County and whose travel is within ¾ mile of a fixed-bus route.
Appendix A Provider Overview

GoTriangle, GoCary, and GoRaleigh each provided historical service data as well as information on ADA ridership growth. The Nelson\Nygaard team analyzed the growth data but could not find clear patterns or trends that linked changes in ADA ridership with investments in the Wake Transit Plan. Analysis of the provided data did not offer conclusive information that could support analysis of the ridership growth impacts associated with bus plan implementation. The following is a summary of each provider's service delivery model and the information provided by each agency along with a summary of their service delivery.

GoTriangle

As the regional transit service provider, GoTriangle operates a combination of commuter oriented and all-day services that connect regional destinations. GoTriangle's ADA services, therefore, tend to be longer and carry riders across jurisdictional boundaries.

ADA Service Delivery Model

- GoTriangle directly operates its ADA service. The service area includes Wake, Durham, and Orange counties.
- GoTriangle works with GoRaleigh and GoDurham to coordinate regional trips beyond its own required ADA service area to avoid riders having to transfer between providers. ADA service coordination will be expanded to include GoCary and Chapel Hill.

Data Provided

- Registered riders (current year)
- Trips by average day of week (weekday, Saturday, and Sunday) by month (FY16–FY21)
- Service costs, revenue hours, mileage, etc. (FY16–FY20)
- Unique trips by rider (FY16–FY21)
- Cost per rider per year (FY16–FY21)

GoCary

GoCary operates eight fixed-route transit routes, which operate within the Towns of Cary, Apex, and Morrisville. GoCary also offers demand response transit services for riders aged 60 or older and comingles demand response trips with ADA trips.

Delivery Model

- The service is operated under contract with MV Transportation.
- ADA trips are provided anywhere within the Town of Cary, even if beyond the ¾-mile minimum ADA requirement. However, these trips outside of the ¾-mile area are subject to additional fares.
- Demand-response services are also provided to residents 60+, regardless of functional ability.
Data Provided

- Active ADA clients and annual growth (prior to FY16, FY16–FY21)
- Active senior (non-ADA) clients
- ADA recertifications
- Daily trips, revenue hours, revenue miles
- Operating expenses
- Top 20 destinations

GoRaleigh

GoRaleigh operates the largest network of fixed route transit services in Wake County with 27 fixed routes. GoRaleigh also operates five regional/express routes in partnership with GoTriangle.

Delivery Model

- The service is operated under contract with MV Transportation and supplemented through subcontracts with local taxicab companies.

Data Provided

- Cost per trip for three October sample months (2018–2020)
- Trips provided in five October sample months (2016–2020)
- Top destinations served by year (2016–2020)
- New rider certifications by month in 2020
- Annual ADA WTP billings (FY18–FY20)
### Figure A-1  Annual ADA Allocation Using 10% of Fixed Route in $Million (FY21–FY30) and Budgeted ADA Reserve

<table>
<thead>
<tr>
<th></th>
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<th>FY24</th>
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<td>10% ADA allocation</td>
<td>$1.61</td>
<td>$1.69</td>
<td>$2.08</td>
<td>$2.14</td>
<td>$2.31</td>
<td>$2.70</td>
<td>$2.93</td>
<td>$3.01</td>
<td>$3.26</td>
<td>$3.40</td>
</tr>
<tr>
<td>Budgeted ADA</td>
<td>$1.56</td>
<td>$2.08</td>
<td>$2.13</td>
<td>$2.18</td>
<td>$2.02</td>
<td>$2.07</td>
<td>$2.12</td>
<td>$2.17</td>
<td>$2.23</td>
<td>$2.28</td>
</tr>
<tr>
<td>Difference</td>
<td>$0.05</td>
<td>$(0.39)</td>
<td>$(0.05)</td>
<td>$(0.04)</td>
<td>$(0.29)</td>
<td>$(0.63)</td>
<td>$(0.81)</td>
<td>$(0.83)</td>
<td>$(1.03)</td>
<td>$(1.12)</td>
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<tr>
<td><strong>Currently budgeted ADA reserve</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>$1.03</td>
<td>$1.31</td>
<td>$1.63</td>
<td>$2.75</td>
<td>$3.65</td>
<td>$4.64</td>
<td>$5.66</td>
<td>$6.39</td>
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Source: FY22 Adopted Wake Transit Work Plan, Nelson\Nygaard analysis
Appendix A: Engagement Summary Report

As part of the FY2025-2030 Wake Bus Plan development process, community stakeholders, a core technical team and program staff reviewed the previously adopted ADA Funding Policy, which

1. Establishes a process for budgeting ADA related expenses in the Wake Transit financial model, and
2. Establishes a process for reimbursing ADA expenses associated with Wake Transit implementation.

Complimentary ADA/Paratransit services are federally required to ensure that individuals who are unable to ride on or get to and from general transit stops and stations, will still have access to transportation services. There are many guidelines that transit operators follow to meet the federal standards for these services. It was noted that ADA service costs are variable.

ADA costs will adjust based on fixed route service. As routes expand or operate longer hours, or more days, there may be more demand for ADA service. Other factors that influence ADA demand include overall population, poverty rates and the strength of the overall network.

After evaluating several possible options to budget and reimburse future ADA expenditures, the recommended path forward is to set aside an amount equal to 15% of Wake Transit’s annual fixed route budget for each provider, to be used for ADA reimbursement. It was also determined that projects funded as part of the Community Funding Area Program would not fall under these policy guidelines and instead will remain reimbursed through their CFAP budget allocations.

The draft Wake Bus Plan: ADA Funding Policy, incorporating those recommended policy changes, was recommended by the TPAC’s Program Development Subcommittee on October 24, 2023. It is being released, along with an update to the Wake Bus Plan: Service Standards and Performance Guidelines, for a 14-day public review and comment period from November 6th-November 20th, 2023. This engagement effort is being conducted in accordance with the Wake Transit Community Engagement Policy.

Members of the community can visit https://www.goforwardnc.org/wake-county/get-involved/ to view documents available for public review and other Wake Transit-related outreach and communications activities. On that page, you can submit questions and comments to the planning team as well as sign up to receive emails for future Wake Transit program updates and activities.

This section, Engagement Summary Report, will be updated with information and comments collected during the public review period to be provided to the CAMPO and GoTriangle governing boards prior to their consideration for adoption.
WAKE BUS PLAN: Service Standards and Performance Guidelines

WAKE BUS PLAN: Service Standards and Performance Guidelines draft was recommended by the TPAC Program Development Subcommittee on October 24, 2023. Public engagement was conducted from November 6-20, 2023. TPAC consideration is scheduled on December 13, 2023, with Wake Transit governing board consideration anticipated to occur in January 2024.

Once adopted, the updated standards and performance metrics will be used in the summer of 2024 to conduct the annual Bus Service Performance Review.

GO FORWARD
A COMMUNITY INVESTMENT IN TRANSIT
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1 Overview

Introduction

In 2016, Wake County residents voted to fund the Wake Transit Plan. The Wake Transit Plan recommended a variety of transit services designed to link communities in Wake County and the surrounding region. It also included a range of solutions from high-capacity services, such as frequent bus routes, to lower capacity options, such as demand-response services. As part of investing in and growing the transit network, the Wake Transit Plan assured voters that their tax resources would be invested prudently and sustainably. The Wake Transit Plan Service Design Guidelines and Performance Measures are designed to help the Wake Transit Plan meet balance the two goals of implementing the Wake Transit Plan and maintaining financial sustainability.

The Wake Transit Plan Service Guidelines and Performance Measures establish a framework and rationale for the operation and investment in transit services in Wake County. Service design guidelines set consistent standards by service type, so that similar types of service are implemented the same way across the county, so riders can trust that services will be available when they need them. Performance measures track and report on the productivity of individual services and the overall network. The combined framework is intended to communicate a clear, consistent, and equitable investment strategy that is understandable to the Wake Transit Bus Plan’s stakeholders, including transit riders, transit operators, elected officials, and taxpayers.

The service guidelines, route classifications, and performance measures included in this report reflect service operations and development envisioned by the Wake Transit Bus Plan. While the framework is designed to be flexible and accommodate changes, the Transit Planning Advisory Committee (TPAC) recommends that the guidelines, standards, measures, and targets are reviewed at least once every four years to ensure they continue to represent best practices and are successfully guiding development of the Wake Transit Bus Plan. Indeed, this set of Service Guidelines and Performance Measures, adopted in 2023 is an update of the original document produced in 2018.

Wake Transit Plan and Individual Transit Providers

Wake County’s transit providers—GoRaleigh, GoTriangle, GoCary, and GoWake Access — have agency specific service guidelines and performance measures that direct their local investments. These locally developed guidelines and measures both shape and communicate development and monitor the performance of transit service funded through local resources. An overview of the existing standards and guidelines used by individual providers is included as Appendix A.

The service guidelines and performance measures recommended as part of the Wake Transit Bus Plan consider—but do not entirely replicate—existing local measures and standards. Instead, the Wake Transit Bus Plan guidelines and measures are intended to supplement local policies.
Service Guidelines and Performance Measures

Wake Transit Plan – Wake Transit Bus Plan

and be utilized in parallel with any local measures and standards. The recommended guidelines and measures also reflect best practices developed by transit agencies across the United States. It is anticipated that the service design guidelines and performance measures will be approved by both the Wake Transit Governing Boards and individual transit providers and be used to govern investments associated with the Wake Transit Bus Plan

Key Terms

To help clarify key terms used throughout the report, below are four important definitions:

<table>
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<th>GUIDELINE</th>
<th>STANDARD</th>
<th>MEASURE</th>
<th>TARGET</th>
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<tr>
<td>A <strong>guideline</strong> is a policy that leads or directs a course of action to achieve a certain goal.</td>
<td>A <strong>standard</strong> sets the minimum investment required to reach the service classification. For example, this report sets standards for the span of service expected for demand-response service.</td>
<td>A <strong>measure</strong> is a reference point against which performance is evaluated. Measures can be evaluated against a baseline value or against a specific target.</td>
<td>A <strong>target</strong> is the defined value set for individual measures. For example, a target might be 20 passengers per revenue hour.</td>
</tr>
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Transit Service Guidelines and Performance Measure Goals

Aside from the adage “you can’t manage what you don’t measure,” there are several reasons why service guidelines are critical for transit agencies. Transit service guidelines and performance measures should:

- **Reflect the vision and goals of the overall transit network:** Transit service guidelines and performance measures reflect community values for transit service. An agency that values extensive geographic coverage above concentrating service in high-demand corridors will adhere to a different set of service guidelines and performance measures than one that focuses on most-efficiently serving demand. There is not a standard or accepted set of service guidelines and performance measures. However, the Wake Transit Bus Plan service guidelines and performance measures are designed to reflect the value of good transit service. Namely service that is efficient, effective, and customer friendly.

- **Ensure consistency among Wake County transit service providers:** The Wake Transit Bus Plan is in a unique position of developing a network of transit services that will be implemented by multiple independent operators. Establishing overarching service
Service Guidelines and Performance Measures

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guidelines and performance measures that apply to all operators will set baseline expectations for a consistent, integrated, and coordinated network of services.

- **Provide transparency:** Service guidelines and performance measures provide benchmarks and performance indicators that reflect realistic and appropriate levels of productivity and cost-effectiveness. These indicators track the development of the network and can be shared with elected boards and members of the public. Accordingly, the service guidelines and performance measures must be easy to understand, directly related to network goals, and instill confidence in the stakeholders.

- **Establish evaluation criteria for all services:** Service guidelines and performance measures include evaluation metrics and tools to shape, define, and evaluate individual transit routes and the emerging transit network. The guidelines will direct attention and investments to specific parts of the network. They will also create a clear, consistent, and equitable framework for decision-making and investment.

- **Prioritize funding:** By conducting frequent service evaluations, transit providers can identify areas of short-term and ongoing additional funding needs. As an example, longer-term projects such as expanding park-and-ride facilities may not arise in traditional transit guidelines, standards, and measures, but they are critical in ensuring ridership growth if capacity is maximized.

- **Support Federal Transit Administration (FTA) compliance:** Transit service will be implemented using a combination of local and state funding, as well as FTA federal funding. Transit operators who receive FTA funding are required to adhere to a series of policies and regulations, including requirements associated with Title VI of the Civil Rights Act of 1964. The FTA monitors these requirements through a triennial review process. However, by integrating service guidelines and performance measures into management practices, there is an assurance of compliance. The guidelines, standards, measures, and targets included in this document are consistent with the FTA Circular 4702.1B (Title VI), which includes establishing service guidelines for vehicle loads and headways, on-time performance, service availability, and equitable distribution of transit amenities and vehicle assignments.
2 Transit Service Policies, Design Principles and Best Practices

Overview

Transit service design guidelines are intended to match the product (type of transit service) with the market (who is going to use it). While the entire document describes the transit service policies and design principles that guide implementation of the Wake Transit Plan, this section focuses on the key decisions that create the building blocks for other parts of the process. This includes – for example – the policies and options for allocating service by area and the categorization of service types. These policies lead to Service Design Guidelines (Chapter 3) and the Performance Measures (Chapter 4).

Service Coverage/Availability

Service coverage standards guide the development of new services, not existing services. They are used to evaluate when to provide new services, including the characteristics of any new service, such as the service type and quantity. The Wake Transit Plan has set a strategic direction for new services, so that transit service will be available to 55% of the population and 81% of the jobs within Wake County. As of 2021, the Wake Transit Plan was close to meeting these goals and by 2027, the investments project that the plan will meet the goals for residential and job access within ¾ of a mile of all day transit service.

In a rapidly growing and urbanized area, like much of Wake County, it is likely that the Wake Transit Plan will need to continue to update bus services to match the underlying markets. Transit market analyses prepared for the Wake Bus Plan in 2023 estimate the need for future services based on population and employment forecasts and available development plans. As mentioned, new bus services should reflect the underlying markets and needs for service and be coordinated with population and employment densities, demographic data and development factors such as the supply and/or cost of parking, traffic conditions, etc. (see Figure 1).
Service Allocation

Service allocation guidelines refer to the balance of transit investment between “ridership” and “coverage” oriented service (see Figure 2). Most transit agencies and systems offer a balance between these types of services. Ridership-oriented transit services typically operate in higher-density urban areas; these routes are almost always more resource intensive because they operate frequently, for longer hours of the day and carry higher numbers of riders. Coverage-oriented services operate in rural or lower-density suburban areas; they tend to be less resource intensive but less productive. In some areas a combination of services is appropriate, such as feeder routes or shuttles that provide connections to higher-capacity transit services, like bus rapid transit or light rail (see Figure 2).

Policy guidelines shape how transit investments are allocated between these two types of services. The Wake Transit Plan set a goal for the entire Wake Transit Plan of providing approximately 70% of the Transit Plan’s operating dollars to “productivity” services that will be justified by high ridership. For purposes of the Wake Transit Plan ridership or productivity routes, are defined as bus routes that operate every 30 minutes or better. The Plan allocates the
remaining 30% to coverage-oriented services. The Wake Bus Plan broadly defines coverage-oriented services as bus routes with frequencies of more than every 30 minutes.

As of 2023, the Wake Transit Plan has made significant progress towards that goal, with the network currently balanced with roughly 55% ridership and 45% coverage-oriented routes. By 2027, the 2023 Wake Bus Plan investments will shift the network to 68% ridership and 32% coverage.

**Figure 2 | Productivity Model and Coverage Services**

<table>
<thead>
<tr>
<th>Productivity Services</th>
<th>Coverage Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>The productivity model concentrates service on collector streets that serve denser areas with extensive pedestrian infrastructure. Service tends to be more direct, faster, and more productive (i.e., carrying more riders). Productivity oriented bus services tend to assume most people will walk to and from their bus route. Ridership-oriented services tend to feature higher frequencies, operate longer service spans, and carry more riders than coverage-oriented services. Examples include light rail and bus rapid transit, but also high frequency bus corridors.</td>
<td>The coverage model spreads bus service on more streets and more local services, even if service is less frequent. Coverage services provide nearby access to bus service with shorter walks. Coverage services tend to have lower frequencies and shorter spans of service. They also tend to carry fewer riders, as compared with ridership-oriented services. Examples include community bus routes, microtransit and dial-a-ride.</td>
</tr>
</tbody>
</table>

**Transit Service Policies**

Transit providers directly control the product and set characteristics such as service quality (cleanliness of the vehicle, reliability of service, friendliness of the driver, etc.), service design (how efficiently the service transports passengers to their desired destinations), and the price of the trip or fare. However, transit agencies have less direct control over their operating
environments and many of the most significant factors influencing transit ridership, such as land use, including the number of people within walking distance of a transit route (density); the safety, comfort, and attractiveness of the built environment; the type of development (housing, jobs, shopping, etc.); and the amount and cost of parking.

Density is the largest single factor influencing transit demand, as the number of people within walking distance of a bus route determines the overall demand for travel, or market size. Accordingly, if there are more people living or working within walking distance (e.g., denser development), there are more potential users of the service. Further, because land tends to be more expensive in high-density communities, these areas also feature less parking and are more likely to charge for parking. Land use also shapes transit demand; office space, for example, usually has higher demand on weekdays while shopping areas may have demand on weekdays and weekends. Other critical factors influencing transit ridership are parking (limited parking and/or parking fees make transit relatively more attractive and pedestrian facilities, like sidewalks, crosswalks, and manageable street crossings.

The context of transportation and land use helps orient two of the building blocks that shape the service guidelines and performance standards: service allocation and route classifications.

Route Classifications

Wake County is a large and diverse region. Consequently, the Wake Transit Plan consists of a variety of services, including high productivity/high-capacity services (frequent transit) to lower productivity, coverage-oriented services (local bus routes or demand-response services). Given different types of service require different levels of investment and have different operating expectations, the Wake Bus Plan uses a route classification system to categorize service types and set standards based on classifications. The classification system also facilitates investment and development of individual routes, by allowing individual routes to move up and down the classification hierarchy. This means that a route that over-performs the expectations for its classification category, could be “upgraded” with additional investment in service hours and frequency if it can meet the defined performance expectations.

In 2023, the Wake Bus Plan updated the classifications of bus routes funded by the Wake Transit Bus Plan: frequent routes; local routes; community routes; microtransit services; demand-response services; all-day regional routes; and peak-only routes. (Figure 3). Each service type is linked with service level guidelines and productivity measures outlined in subsequent sections. Bus routes included in the 2023 Wake Bus Plan are classified and listed in Appendix B.

Transit service design principles generally discourage route branches and service deviations because they complicate rather than simplify service. As a result, branches and deviations should be justified based on ridership or coverage goals and be judged according to the same standards as other similar routes when they are required.
### Service Guidelines and Performance Measures

**Wake Transit Plan – Wake Transit Bus Plan**

#### Figure 3 | Transit Service Types in the Wake Transit Bus Plan

<table>
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<th>Service Type</th>
<th>Characteristics</th>
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<tbody>
<tr>
<td><strong>Frequent Routes</strong></td>
<td>Frequent routes are high-capacity, high productivity services that should operate along densely developed primary arterials with 15-minute or better headways during the day on weekdays. They form the “backbone” of the service network and provide connections to network hubs. Most other routes will connect to them, and routes should be simple and direct.</td>
</tr>
<tr>
<td><strong>Local Routes</strong></td>
<td>Local routes also operate along primary arterials, but in areas of less dense development patterns. They also typically are anchored at a transit hub, either downtown or at the end of a frequent route or BRT. These routes offer relatively frequent, simple, and direct service, usually within neighborhoods or between local destinations. Routes are typically productive with moderate to strong ridership.</td>
</tr>
<tr>
<td><strong>Community Routes</strong></td>
<td>Community routes serve low-density communities and neighborhoods, providing local connections or bringing passengers to transit hubs or higher capacity services. Community routes are exclusively focused on widening geographic service coverage, or “filling in the gaps” of the transit network. Productivity is usually low.</td>
</tr>
<tr>
<td><strong>All-Day Regional Routes</strong></td>
<td>All-day regional routes provide longer-distance service connecting the major activity centers across jurisdictions on weekdays and weekends. They provide the backbone of the region’s transit network, and prioritize connecting transit centers to facilitate transfers. They have limited stops to provide fast travel times and use freeways and expressways where appropriate.</td>
</tr>
<tr>
<td><strong>Peak-Only Routes</strong></td>
<td>Peak-only routes operate during traditional commuter peak-periods only, designed primarily to bring people from residential areas to employment centers. They make few stops, often at park &amp; ride facilities or transit centers, before traveling non-stop to the employment center via highways or freeways.</td>
</tr>
<tr>
<td><strong>Microtransit Services</strong></td>
<td>Microtransit is an on-demand service in rural or low-density communities and can be operated directly by the transit agency or contracted with Transportation Network Companies. Services are typically curb-to-curb or door-to-door within a specified zone or based around designated “nodes”.</td>
</tr>
<tr>
<td><strong>Demand-Response Services</strong></td>
<td>Demand-response service offers curb-to-curb or door-to-door service upon request. Services are well suited for serving low-density areas and can be provided by a range of providers, from traditional transit agencies to app-based ride-hailing providers. Demand-response service includes ADA paratransit service, which operates under specific FTA guidelines, serving individuals with disabilities and older adults</td>
</tr>
</tbody>
</table>
Transit Service Design Guidelines

While “good” bus routes can look different depending on their role or function within the network, they should all be relatively simple for both existing and new riders to understand. They should also be coordinated within the large system or route to facilitate transfer and access. The following section highlights best practices and service design guidelines to help service providers develop a network of logical, consistent, and user-friendly services.

Transit is best supported by mixed uses and density.

Bus routes are more efficient when they serve areas of high transit demand, or areas where people live (i.e., residential density) and work (i.e., employment density). While density of jobs or residents are good indicators of transit demand, a mix of land use in the same areas can produce even more demand and either alone. Mixed use areas create a steady demand for transit throughout the day and evening. Other transit-supportive land uses include commercial and institutional areas, which attract large numbers of employees, patrons, and guides.

Service Should be Simple.

A simple transit route design and simple schedules will attract more riders than a complex transit system. For people to use transit, they must be able to understand it, and simpler services are easier for riders to rely on them.

Routes Should Operate Along a Direct Path.

Routes should be designed to operate as directly as possible to keep travel time lower while maintaining access to key destinations.

The fewer turns a route makes, the easier it is for riders to understand. Conversely, circuitous paths are disorienting and difficult to remember, which can impact the reliability of the route. Direct routes also maximize average speed for the bus and minimize travel time for passengers while maintaining access to service.

Route Deviations Should be Minimized.

As described above, service should be as direct as possible. Consistent with this idea, the use of route deviations—traveling off the most direct route—should be minimized.

There are instances when deviating service from the most direct route is appropriate, such as avoiding a bottleneck or providing service to major shopping centers, employment sites, medical centers, schools, etc. In these cases, the benefits of deviating service from the main route must be weighed against the inconvenience caused to passengers already on board. Route deviations should be implemented only if:

- The deviation will increase the route’s overall productivity.
- The number of new passengers served is equal to or greater than 25% of the number of passengers inconvenienced by the additional travel time on any particular deviated trip
- The deviation does not interfere with the provision of regular service frequencies and/or the provision of coordinated service with other routes operating in the same corridor
• Pedestrian access to a large trip generator is unsafe due to a lack of infrastructure, or inaccessible due to a dendritic street pattern

In most cases, where route deviations are provided, they should operate for the entire service period. Exceptions are during times when the sites that the route deviations serve have no activity—for example, route deviations to shopping centers do not need to serve those locations early in the morning before employees start commuting to work.

**Major Routes Should Operate Along Arterials.**

Frequent and local routes should operate on major roadways and should avoid deviations to provide local circulation. Riders and potential transit users typically have a general knowledge of an area’s arterial road system and use that knowledge for geographic points of reference. The operation of bus service along arterials makes transit service faster and easier for riders to understand and use. This principle applies only to routes with a productivity-based strategy.

**Routes Should be Symmetrical.**

Routes should operate along the same alignment in both directions to make it easy for riders to know how to return to their trip origin location. For example, if a route follows High Street into downtown, it should use High Street on its outbound trip. Exceptions can be made in cases where such operation is not possible due to one-way streets or turn restrictions. In those cases, routes should be designed so that the opposite direction alignments run parallel as closely as possible.

**Routes Should Serve Well-Defined Markets.**

Service should be developed to serve well-defined markets. Ideally, major corridors should be served by only one route of each service type—for example, one frequent route and one local route, and not by multiple frequent routes or multiple local routes. Exceptions can and should be made when multiple routes should logically operate through the same corridor to unique destinations.

**Services Should be Well-Coordinated.**

When multiple routes operate through the same corridor but serve different destinations, service should be coordinated to maximize utility and minimize redundancy. To avoid bunching buses and to balance loads, major routes of the same service type using the same corridor should be scheduled to operate at similar frequencies and should alternate trips at even intervals.

Most routes intersect with other routes at transfer centers, stations, and street intersections. At major transfer locations, schedules should be coordinated to the greatest extent possible to minimize connection times for the predominant transfer flows.

**Service Should be Consistent.**

Routes should operate along consistent alignments and at regular intervals (headways). People can easily remember repeating patterns but have difficulty remembering irregular ones. For example, routes that provide four trips an hour should depart every 15 minutes. Limited
exceptions can be made in cases where demand spikes during a short period to eliminate or reduce crowding on individual trips.

**Vehicle Type Should be Appropriate for Service.**

Transit vehicles should be matched to service types by vehicle type and capacity. For example, the standard fixed-route transit vehicle is typically a 40’ transit bus and is appropriate for most services. However, high ridership routes may warrant 60’ articulated vehicles, and conversely, lower ridership routes such as local routes or shuttles may only require 30’ vehicles. Flex service and demand-response vehicles typically utilize smaller vehicles.

Additionally, as required by Title VI, transit providers must distribute vehicle assignments evenly throughout the system so newer vehicles are equitably deployed across the service area.
3 Service Level Standards

Service level standards help transit providers determine how much transit service to provide, given the underlying local market and operating conditions. Setting expectations for service levels also creates a coordinated and consistent network of service by establishing uniform standards for each service type.

The service level standards work in concert with the service productivity measures (Chapter 4) to create a network that is easy for operators to communicate with riders and stakeholders. The standards should work collectively to create a transit network that is productive and efficient.

The combined standards and measures also create a framework for expanding and contracting bus service. Transit operators can provide more service on any route or market, as deemed appropriate, but must provide at least the minimum proposed standard to meet the service type requirements.

The service level standards are determined based on five standards:

1. **Span of Service**: Sets route start and end times.
2. **Service Frequencies**: Recommends how often transit service is operated.
3. **Passenger Loads**: Establishes acceptable levels of passenger volumes relative to the number of available seats.
4. **Bus Stop Spacing and Amenities**: Recommends stop spacing and amenity investments.

As discussed, service level standards set required minimum service levels for each route type, including hours of service, service frequencies, and acceptable passenger loads. Investments in a route may be increased (longer service span or increased frequency), if or when ridership increases to levels that exceed maximum loading standards. Conversely, service may be reduced when ridership falls below the minimum productivity measures. Likewise, service spans may be lengthened to extend service earlier in the morning and later at night, if minimum productivity targets can be met.

**Minimum Span of Service**

The span of service –operating hours - is the length of time a route is available, typically measured by the time a bus route begins and ends. It determines how usable an individual bus route is for riders. Consistent standards and expectations for the span of service also ensure the network overall will be able to offer connections and transfers between routes. However, operating hours are one of the most important factors in determining how much a route will cost. Developing an appropriate span of service—one that will meet rider and network needs, but not result in empty buses—is an essential component of an effective transit network.
Service standards establish the required minimum span of service for each route type (Figure 4). The span of service varies by day of the week (weekdays, Saturdays, and Sundays), recognizing that the amount of activity, and consequently the need or demand for transit service, varies by day of the week. The standard reflects the shortest period of time that different route types of service should operate. The span of service for any individual route can be greater—but not less—than the standard. While transit operators may extend the span of service for any particular route, these trips must meet the minimum productivity and efficiency expectations for that category of service (see Section 4).

Figure 4 | Minimum Span of Service (Hours of the Day)

<table>
<thead>
<tr>
<th></th>
<th>Frequent Route</th>
<th>Local Route</th>
<th>Community Route</th>
<th>All Day Regional Route</th>
<th>Peak Only Route</th>
<th>Microtransit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekday</td>
<td>18</td>
<td>16</td>
<td>14</td>
<td>14</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Saturday</td>
<td>18</td>
<td>16</td>
<td>12</td>
<td>12</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td>Sunday</td>
<td>17</td>
<td>12</td>
<td>10</td>
<td>12</td>
<td>Optional</td>
<td>Optional</td>
</tr>
</tbody>
</table>

1 Does not supersede ADA paratransit legal requirements.

**Minimum Service Frequencies**

Service frequency reflects the time interval between two vehicles traveling in the same direction on the same route, or how often the bus serves a particular stop. Service frequency is critical to establish transit service as an attractive and viable travel mode, and significantly influences transit ridership. Like span of service, frequency has a significant impact on operating costs. For example, improving a route from a 60-minute frequency to a 30 minute-frequency doubles the route’s operating costs. Because operating high-frequency service is so expensive, transit service frequency can vary throughout the day (i.e. peak and off-peak periods) to reflect existing or potential demand. Service frequencies are also set to ensure there are enough vehicles on the route to accommodate passenger volumes while not exceeding recommended loading standards.

The required service frequencies for routes in the Wake Transit Bus Plan are shown in Figure 6. These service frequencies set the minimum expectation for the frequency of bus service to ensure network compatibility. Consistent with the span of service expectations, transit operators are permitted to provide higher service frequencies. However, these additional trips are expected to meet the minimum productivity expectations for the category of service (see Section 5).

Service frequencies are listed in terms of “clock face intervals” (e.g., every 10, 15, 20, 30, or 60 minutes) as these intervals are easier for passengers to remember and can help facilitate better transfer connections between routes. Whenever possible, frequencies should be set at regular clock-face intervals. However, there are two key exceptions:

- Where individual trips must be adjusted away from clock face intervals to meet shift times, work times, transfer connections, coordinate with pulse schedules, or other special circumstances.
Where the desired frequency of service causes round trip recovery time to exceed 20% of the total round trip vehicle time. In such cases, the inefficiency of the schedule outweighs the benefit of a clock face schedule.

**Vehicle Loads**

Vehicle loads refer to the number of riders on the bus relative to the seating capacity of the vehicle. Vehicle loads are typically measured in terms of maximum standards to capture the time (or portion of the route) when the greatest number of riders are on the vehicle at the same time. They are also expressed in percentages to reflect the number of people on the vehicle in proportion to the number of seats. A standard of 100%, for example, sets a goal of ensuring every passenger has a seat. A standard of 120% allows for some standing passengers. If a bus route consistently exceeds the vehicle loading standards, additional capacity (more or larger buses) should be added to the route.

Transit providers can adjust services to keep the number of passengers on their vehicles at a comfortable level, always within the limits of safety. In peak periods, this means that some passengers may be expected to stand for a portion of the trip. In off-peak times and/or for services that operate over longer distances, service will be designed to try to provide a seat to all customers. Transit operators maintain passenger loads within acceptable levels by matching capacity to demand. They can accomplish this by matching vehicle types with ridership levels (i.e. assign larger vehicles to higher ridership routes) by increasing (or decreasing) the frequency of service.
Service Guidelines and Performance Measures

Wake Transit Plan – Wake Transit Bus Plan

The Wake Transit Plan service standards set requirements for the maximum average vehicle loads by service type and time of day (Figure 6). The standard reflects the average number of passengers relative to seating capacity for both the peak and off-peak periods, at the busiest point on the route.

**Figure 6 | Average Vehicle Loading Maximums**

<table>
<thead>
<tr>
<th></th>
<th>Frequent Route</th>
<th>Local Route</th>
<th>Community Route</th>
<th>Microtransit</th>
<th>All-Day Regional Route</th>
<th>Peak-Only Route</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak</td>
<td>120%</td>
<td>120%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Off-Peak</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

Note: Maximums are averages over one-hour periods; individual trips may exceed averages.

**Bus Stop Spacing**

Spacing bus stops is an essential part of effective transit service. Closely spaced stops provide convenient access because riders are more likely to have a shorter walk to the nearest bus stop. However, closely spaced bus stops make bus service slow, as each additional stop requires the bus to decelerate, come to a complete stop, load, and unload riders, and then accelerate and re-merge into traffic. Since most riders want service that balances convenience and speed, the number and location of stops is a key component of determining that balance.

Bus stop spacing should also reflect service types. In general, services that emphasize speed and productivity (e.g., frequent routes) should have fewer stops that are spaced further apart, while services that emphasize accessibility (e.g., community routes) have stops spaced more closely together.

Standards for minimum stop spacing (or maximum stops per mile) are shown in Figure 8. Where multiple routes operate in the same corridor, the standard for the highest level of service operation applies. Exceptions to these standards should only be made in locations where walking conditions are particularly dangerous, significant topographical challenges impede pedestrian access, or factors compromise safe bus operations and dwelling. This includes level of walkability, the absence of pedestrian accommodations, and the presence of a dendritic street network throughout much of the region.
Service Guidelines and Performance Measures

Wake Transit Plan – Wake Transit Bus Plan

Figure 7 | Industry Standard Bus Stop Spacing Standards

<table>
<thead>
<tr>
<th></th>
<th>Frequent Route</th>
<th>Local Route</th>
<th>Community Route</th>
<th>All-Day Regional Route</th>
<th>Peak-Only Route</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Stop Spacing in Feet</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moderate to High Density</td>
<td>1,300</td>
<td>1,300</td>
<td>1,300</td>
<td>2,600</td>
<td>—</td>
</tr>
<tr>
<td>Low Density</td>
<td>1,300</td>
<td>1,300</td>
<td>1,300</td>
<td>2,600</td>
<td>—</td>
</tr>
<tr>
<td>Maximum Number of Bus Stops per Mile</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moderate to High Density</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>—</td>
</tr>
</tbody>
</table>

Notes: Moderate to high density defined as greater than or equal to 4,000 persons per square mile; low density defined as less than 4,000 persons per square mile

Bus Stop Amenities

Bus stops should include passenger amenities that are appropriate for the level of passenger activity occurring at each stop. This standard serves several purposes: it ensures amenities are distributed with equity, as required by Title VI, as well as ensuring transit providers are efficiently investing capital resources in locations where it is most appropriate. Since passenger amenities enhance multiple routes, these standards are not specific to the type of service, only the total number of boardings, as described.

Where practicable, all new or improved bus stops and passenger waiting areas must conform to the ADA requirements as laid out in the Department of Transportation ADA standards for Transportation Facilities (2006). These standards specify a variety of requirements for platform surface, widths, and connectivity to surrounding sidewalk infrastructure and shelter facilities. As funds are available, existing bus stops and passenger waiting areas should be updated to meet ADA requirements.

Additionally, all stops should include clear signage. Additional amenities such as benches should be provided, as appropriate, depending on the level of passenger activity. Figure 9 provides a description of recommended amenities by type of stop.
Figure 8 | Bus Stop and Transit Station Types

**Bus Stop and Transit Station Types**

**BASIC BUS STOP**
- **ELEMENTS:**
  - Bus stop sign
  - Pedestrian boarding area
  - Sidewalk connection
  - Street lighting
- **APPROXIMATE COST:** $20,000-$25,000
- **MODE:** Bus
- **TYPICAL RIDERSHIP:** Fewer than 25 daily passenger boardings

**BUS STOP + SHELTER**
- **ELEMENTS:**
  - Bus stop sign
  - Pedestrian boarding area
  - Sidewalk connection
  - Street lighting
  - Pavered markings
- **APPROXIMATE COST:** $25,000-$30,000
- **MODE:** Bus
- **TYPICAL RIDERSHIP:** 25-75 daily passenger boardings

**HIGH VOLUME BUS STOP**
- **ADDITIONAL ELEMENTS:**
  - Real-time display
  - Bus pull-off roadways
- **APPROXIMATE COST:** $35,000-$45,000
- **MODE:** Bus
- **TYPICAL RIDERSHIP:** 75-200+ daily passenger boardings

**TRANSIT STATION / SUPER STOP**
- **ADDITIONAL ELEMENTS:**
  - Station signage
  - Raised platforms/level boarding
  - Large shelter/walking
  - Bicycle racks/locking
  - Branding elements
  - Distinctive design
  - Off-board fare payment
  - Newspaper vending machines
- **APPROXIMATE COST:** $100,000 - $300,000
- **MODE:** Bus
- **TYPICAL RIDERSHIP:** 200+ daily passenger boardings
- **EXAMPLE:** Crabtree Valley Mall Station

**BUS TRANSIT CENTER**
- **ADDITIONAL ELEMENTS:**
  - Lighting and Security
  - Trash receptacles
  - Off-street bus bays
  - Enclosed waiting areas/restrooms
  - Bike and Bike storage
  - Bicycle access/parking
  - Rideshare/Transit facilities
  - Enhanced passenger amenities
  - Information/commuter center
- **APPROXIMATE COST:** $5 million-$20 million
- **MODE:** Bus, Bus Rapid Transit (BRT)
- **TYPICAL RIDERSHIP:** 1000+ daily passenger boardings
- **EXAMPLE:** GoRaleigh Station
4 Performance Measures

Introduction

The Wake Transit Plan measures a combination of network-level and route specific performance measures. Network-level performance measures will measure progress towards overall goals and guide investment at a strategic level. An examples of a network-level performance measure in the Wake Transit Plan is the percentage of Wake County residents and jobs within ¾ of a mile of all-day transit. Ensuring progress towards this goal is incorporated into the project prioritization process and determining where to develop new bus routes.

Route-level performance measures, on the other hand, are designed to ensure the productivity of individual bus routes matches the level of investment. The process of tracking and evaluating individual bus routes helps both the Wake Transit Plan and individual transit operators to identify which bus routes meet their performance targets, as well as routes that may be over performing the expectations for the classification and potentially warrant additional investment. Likewise, bus routes that are under-performing relative to their standards may require adjustments or reduced investment. In this way, the performance standards guide investment in individual bus routes and encourage transit operators to adjust service levels to match expectations.

Performance measures consist of a limited set of measures that capture the critical aspects of service productivity, efficiency, and effectiveness; at the same time, these performance measures can be easily reproduced and communicated. Performance measures are set for each of the six service classification types, recognizing that the productivity of individual bus route will be shaped by the underlying market and operating characteristics.

The performance measures included in this report were developed by:

1) Considering the existing performance measures and productivity levels of similar services as measured in the 2021 Route Performance Assessment.

2) Reviewing performance measures and productivity levels used by peer agencies, including both peers of the current network as well as peers applicable to the evolving transit network (see Appendix B).

Updates to Performance Measures

In 2018, the Wake Transit Plan Service Guidelines and Performance Measures included four route-level metrics, one of which was designed to track service quality (on-time performance) and three related to service productivity (riders per hour or trip, cost per rider and farebox recovery rate). The 2018 guidelines and measures also set expectations for measuring customer satisfaction through a rider survey conducted regularly (see Chapter 6).

The 2023 Wake Bus Plan evaluated individual bus routes according to the metrics set out in the Wake Transit Plan Service Guidelines and Performance Measures. The analysis was based on
data for the month of April for the six-year period between 2016 and 2021. While the impact of the pandemic on transit ridership and bus route performance was clear, the evaluation process routes revealed opportunities and challenges with the approach developed in 2018, namely:

- In some cases, standards require adjusting because they were too stringent or too lenient. Examples include operating cost per rider and riders per trip.
- Farebox recovery ratio became meaningless when transit agencies eliminated fares during the pandemic. It also did not offer additional meaningful insights into route productivity beyond operating cost per rider.
- While on-time performance is an important measure of service quality, it might not be the most appropriate metric for the Wake Transit Plan.
- A renewed emphasis and desire to capture the value or impact of service, especially for the lowest income residents, people of color and other historically disadvantaged populations.

**Wake Transit Plan Performance Measures**

As part of updating the Service Guidelines and Performance Measures in 2023, the Wake Bus Plan Working Group recommended adjusting the 2018 measures (or metrics) to focus on service quality, service effectiveness, service effectiveness and customer satisfaction.

**Service Quality**

The Wake Transit Plan uses on-time performance to capture service quality. It measures how closely a transit service adheres to its published schedule, indicating the percentage of time a route is arriving on time, early or late. It is an important customer facing measure because it impacts service reliability.

- **On-time performance** – compares scheduled and actual bus departure and arrival times at fixed time points.

**Service Effectiveness**

Service effectiveness measures provide insights into how many riders benefit from using Wake Transit Plan funded service compared to how much that service costs to operate and maintain. These measures are designed to ensure the Wake Transit Plan is a good steward of taxpayer funds. Service effectiveness is measured in two ways – productivity and cost effectiveness.

**Productivity**

The productivity of a bus route is measured according to:

- **Riders per revenue hour** – the number of boardings divided by the total number of hours the vehicles on a route are in service.
Service Guidelines and Performance Measures

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- **Riders per revenue trip** – the number of boardings divided by the number of trips a route makes during the day. Peer agencies use this metric as a more appropriate way to measure routes that run fewer trips each day over longer distances.

The standard sets a minimum for the average number of passenger boardings that a route should generate for each service hour (Figure 14). The standards vary by service type and by day of the week and time of day.

**Figure 9 | Minimum Productivity Levels**

<table>
<thead>
<tr>
<th></th>
<th>Frequent Route</th>
<th>Local Route</th>
<th>Community Route</th>
<th>Microtransit</th>
<th>All-Day Regional Route</th>
<th>Peak-Only Route</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekdays – All Day</td>
<td>25/hour</td>
<td>15/hour</td>
<td>8/hour</td>
<td>2/hour</td>
<td>10/trip</td>
<td>10/trip</td>
</tr>
<tr>
<td>Weekdays – Early Morning and Late Night</td>
<td>15/hour</td>
<td>8/hour</td>
<td>8/hour</td>
<td>2/hour</td>
<td>6/trip</td>
<td>-</td>
</tr>
<tr>
<td>Saturday</td>
<td>20/hour</td>
<td>10/hour</td>
<td>8/hour</td>
<td>2/hour</td>
<td>8/trip</td>
<td>-</td>
</tr>
<tr>
<td>Sunday</td>
<td>15/hour</td>
<td>8/hour</td>
<td>8/hour</td>
<td>2/hour</td>
<td>6/trip</td>
<td>-</td>
</tr>
</tbody>
</table>

*Note: “Early Morning and Late Night” refers to service before and after the minimum span of service. All day refers to the complete span of service, including early morning and late night service. “-” indicates that the standard does not apply.*

**Cost Effectiveness**

Measuring a route’s operating cost per rider shows how many people are using the bus route compared to how much it costs to run.

- **Operating Cost per Rider** – the amount spent on operating a bus route (fuel, vehicle maintenance and repairs, and operator wages and benefits) divided by the number of riders carried on the bus route.

Operating cost per rider varies by route type (see Figure 15).

**Figure 10 | Operating Cost per Boarding**

<table>
<thead>
<tr>
<th></th>
<th>Frequent Route</th>
<th>Local Route</th>
<th>Community Route</th>
<th>Microtransit</th>
<th>All-Day Regional Route</th>
<th>Peak-Only Route</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost per boarding</td>
<td>$5.00</td>
<td>$10.00</td>
<td>$10.00</td>
<td>$30.00</td>
<td>$10.00</td>
<td>$10.00</td>
</tr>
</tbody>
</table>

**Service Impact**

Productivity and cost effectiveness alone cannot capture the full impact and importance of transit service to individual neighborhoods and the region overall. A route that has low productivity, for example, may serve residents in neighborhoods with historic disinvestment and/or higher...
Service Guidelines and Performance Measures

Wake Transit Plan – Wake Transit Bus Plan

concentrations of individuals and families with low incomes. The value – or impact – of these bus routes may not be reflected purely in cost per rider or rider per hour (or trip).

Rather than a standard, the Service Impact measure qualifies bus routes for a relaxed standard, given the added impact of serving low-income and historically disadvantaged communities.

- CAMPO’s 2050 Metropolitan Transportation Plan developed a methodology to identify “communities of concern” for environmental justice analysis using six American Community Survey metrics: race (non-white), ethnicity (Hispanic or Latino origin), poverty (below 150% of the poverty line), elderly population (65+), vehicle availability (zero-vehicle households), and English proficiency (people who do not speak English or speak English “less than very well”). A block group meets the indicator threshold for each metric if the percentage of the targeted population is in the 75th percentile of all CAMPO block groups.¹

- Bus routes would be eligible for a **FIXED** service impact benefit if at least 50% of the stops are located within one-quarter mile of block groups that include at least four (4) equity groups identified on CAMPO’s communities of concern map.

- Bus routes that qualify for the **FIXED** service impact benefit are required to meet 80% of the standard for riders per hour / riders per trip and 120% of the standard for cost per rider.

- Bus routes would be eligible for a **VARIABLE** service impact benefit if at least 25% of the stops are located within one-quarter mile of block groups that include at least four (4) equity groups identified on CAMPO’S communities of concern map.

- Bus routes that qualify for the **VARIABLE** service impact benefit are required to meet the annual standard for riders per hour/riders per trip less 5% (-5%) and the annual standard for cost per rider plus 5% (+5%).

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Performance Standard (Wake Transit Routes)</th>
<th>Performance Standard (Cost Effectiveness)</th>
<th>Service Impact Benefit (Equity Routes – 50%)</th>
<th>Service Impact Benefit (Equity Routes 25%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY2017-2023</td>
<td>80% of Service Targets</td>
<td>120% of Cost Targets</td>
<td>80%/120%</td>
<td>80%/120%</td>
</tr>
<tr>
<td>FY2024-2026</td>
<td>90% of Service Targets</td>
<td>110% of Cost Targets</td>
<td>80%/120%</td>
<td>85%/115%</td>
</tr>
<tr>
<td>FY2027 and beyond</td>
<td>100% of Service Targets</td>
<td>100% of Cost Targets</td>
<td>80%/120%</td>
<td>95%/105%</td>
</tr>
</tbody>
</table>

¹ [https://www.campo-nc.us/transportation-plan/2050-metropolitan-transportation-plan-mtp](https://www.campo-nc.us/transportation-plan/2050-metropolitan-transportation-plan-mtp)
Phasing Performance Standards

Service effectiveness performance measures are designed to evaluate routes in year 2027 of the Wake Transit Plan. Individual route performance is expected to improve as the overall network of transit service expands and improves. The standards set out in this document reflect the service effectiveness expected from a mature and complete transit network. Bus services associated with the Wake Transit Bus Plan will be phased in over time as are the expectations associated with individual routes. This approach ensures the performance targets will be appropriate for the life of the Wake Transit Plan. Phasing does not apply to measures of service quality or service impact.

The measure of productivity (riders per revenue hour and riders per trip) will be phased in over time, with individual routes and services evaluated according to the following schedule:

- Fiscal Years 2017-2021 – 80% of target
- Fiscal Years 2022-2026 – 90% of target
- Fiscal Year 2027 and beyond – 100% of target

The measure of cost effectiveness (operating cost per passenger boarding) is expected to decrease as service improves and ridership increases. For that reason, the phased schedule is the inverse and will be evaluated according to the following schedule:

- Fiscal Years 2017-2021 – 120% of target
- Fiscal Years 2022-2026 – 110% of target
- Fiscal Year 2027 and beyond – 100% of target

Applying the Performance Standards

The TPAC understands that transit providers are solely responsible for operating their services. As such, transit providers have discretion to recommend and implement changes to their routes as needed. Transit providers are encouraged to integrate the Service Guidelines and Performance Measures as they review and evaluate their transit services. This internal review process, as proposed for the Wake Transit Bus Plan, should consider transit operations as well as the impact of exogenous variables that may impact route productivity, such as gas prices.

However, the TPAC designed these performance standards and measures to strike a balance between setting realistic and achievable goals with a desire to encourage ongoing improvement. As such, the TPAC recommends that transit providers compare route performance relative to the Wake Transit Bus Plan standards. Routes that consistently over-perform relative to the Wake Transit Plan may warrant additional investment; and conversely routes that consistently under-perform relative to their standard may warrant a reduced investment. Recognizing that not every bus route will meet all performance standards, all the time, over-performing routes are defined as services that surpass at least three performance measures for three or more consecutive quarters. Under-performing routes are defined as routes that fall below the minimum standards for three or more performance measures for a period of three or more consecutive quarters.

Local transit providers will develop a report, submitted to the TPAC quarterly, that shows performance on individual performance measures at a route level. This report will also include information on the number of consecutive quarters the route has over- or under-performed relative to the standards. The TPAC will not be taking action on the routes on a quarterly basis, but transit providers will make the information available on a quarterly basis.
The TPAC recommends a tiered system for addressing over- and under-performing routes. This process is designed to be clear, consistent, and fair while ensuring the most cost-effective investments are prioritized.

1. New routes or routes undergoing significant changes (defined as a 20% change in revenue miles or hours) will be classified as new and exempt from performance measures services for a period of 18 months to build ridership and the market for transit services. This grace period is intended to reflect the major changes in transit service development in Wake County. The time period is longer than the one currently adopted by GoTriangle and GoRaleigh.

2. Local transit providers will review route productivity annually (in conjunction with the annual work plan process). **Routes identified as under- or over-performing will be considered as part of the local transit provider’s existing route review process.** This process will be conducted in advance of the annual work plan development process and may consider corrective actions such as minor changes to include service design, strengthening connections, coordination with other routes; and/or marketing or information systems. Any actions resulting from this are at the discretion of the transit providers.

3. **Any significant changes to the funding of individual routes will be recommended as part of the update to the Wake Transit Bus Plan,** a process that is envisioned to occur at least once every four years. As part of this process, routes that have over- or under-performed relative to at least three of their respective standards for the past three or more consecutive quarters will be subjected to more strenuous review. This process will include reviewing:
   - The specific performance measures where over- or under-performance has been recorded, including duration and the magnitude of the gap.
   - Exogenous variables out of the transit providers’ control may have contributed to over- or under-performance.
   - Efforts under-taken by the transit provider to address over- or under-performance.

Routes that consistently over-perform set targets and have not received additional investment **may** be considered for additional resources. Additional resources may be used to advance the route classification to a higher tier or service (i.e., graduate service from a local route to a frequent route).

Likewise, routes that have exhausted their route development period and have not improved with annual adjustments **may** be recommended for a reduction or elimination of funding. For example, a reduction in funding may be used to move a route down a classification tier (i.e., from a community route to a demand response service).
5 Measuring Customer Satisfaction

Customer satisfaction is a critical element of the Wake Transit Plan as the vision adopted by the voters includes clear guidelines for enhancing customer service. The goal with these guidelines is a transit system that prioritizes accessibility, comfort, security, reliability, cleanliness, courtesy, and communication. Customer satisfaction measures also allow TPAC member agencies to understand if complaints are incidental to a particular individual or systemic to the overall network. Regular, periodic customer satisfaction surveys also allow Wake Transit Governing Boards to track satisfaction in the overall transit network as it evolves.

Customer Satisfaction Survey

Each of the transit providers in Wake County will administer an annual customer satisfaction survey to gauge customer satisfaction (see Figure 18). The annual survey should include four key elements:

1. **Create a baseline survey:** The fiscal year 2019 survey will be the first comprehensive survey among all providers in Wake County. This survey will provide the baseline to compare future surveys against as transit improvements are implemented.

2. **Survey by provider and region:** The core of the survey instrument should include a set of identical questions for each transit provider. Uniform questions will allow the survey to provide comparable data among providers and assess regional satisfaction, while providing useful data to individual providers.

3. **Survey annually:** To utilize the survey as a performance measure, surveys should be conducted annually to monitor changes in customer satisfaction.

4. **Ensure statistical confidence:** The survey should obtain a 95% level of confidence for each provider.

Survey results should be reported annually to the TPAC, along with the network-level performance measures. Success or challenges identified in the survey process can be incorporated into the annual work plan review process to make minor adjustments as needed. Recommendations for major changes that result from the customer satisfaction survey process should be included in the major review process schedule.
Figure 11 | Onboard Customer Satisfaction Survey (20238 GoCary)
Appendix A  Existing Service Policies of Wake County Transit Providers

Four independent transit agencies operate public transportation services in Wake County. Each operator follows prescribed guidelines and performance measures to govern the provision of transit services (Figure 16).

Figure 12 | Wake County Transit Provider Policy Guidelines

<table>
<thead>
<tr>
<th>Transit Provider</th>
<th>Governing Service Guidelines and Performance Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>GoRaleigh</td>
<td>GoRaleigh Service Change Initiation Policy</td>
</tr>
<tr>
<td></td>
<td>GoRaleigh Rider Notification Policy</td>
</tr>
<tr>
<td></td>
<td>GoRaleigh Shelter and Bench Policy</td>
</tr>
<tr>
<td></td>
<td>GoRaleigh Title VI Program</td>
</tr>
<tr>
<td>GoTriangle</td>
<td>GoTriangle Regional Bus Service Standards</td>
</tr>
<tr>
<td></td>
<td>GoTriangle Title VI Program</td>
</tr>
<tr>
<td>GoCary</td>
<td>Town of Cary Fixed Route Transit Service Standards</td>
</tr>
<tr>
<td></td>
<td>Town of Cary Title VI Program</td>
</tr>
<tr>
<td>WCTS</td>
<td>Wake Coordinated Transportation Service Operations Guide</td>
</tr>
</tbody>
</table>

GoRaleigh Policies

Several GoRaleigh policies are related to transit service changes and the provision of transit amenities. GoRaleigh adopted its Service Change Initiation Policy in 2002. The policy states that no changes shall be made to a new route for at least six months after service initiation, unless safety, operational, or productivity issues warrant review by the provider.

GoRaleigh’s Rider Notification Policy defines changes in transit service and outlines the required procedure for handling major service changes. According to GoRaleigh’s Shelter and Bench Policy, shelters and benches are warranted at bus stops where there are at least 25 and 10 boardings a day, respectively. The policy states that special facilities should be provided, if necessary, at locations such as hospitals, clinics, senior centers, or recreation facilities serving seniors or persons with disabilities.

In addition to these written policies, GoRaleigh tracks:

- Predictive policy: Review routes with farebox revenue less than 50% of the systemwide average
- On-time performance: Defined as zero minutes early and five minutes late. Routes performing at 74.9% or less require review.

GoRaleigh also maintains standards based on Title VI requirements. These standards guide Title VI compliance, ensuring that minority and low-income individuals receive equitable transit service. The GoRaleigh Title VI Program defines the following standards:
Service Guidelines and Performance Measures

Wake Transit Plan – Wake Transit Bus Plan

- Load: Routes experiencing passenger load ratios between 1.01 to greater than 1.50 at any point should be reviewed.
- Headway: Headways shall vary between peak periods and off-peak periods where demand dictates in order to minimize operating expenses and provide the most efficient service during weekday peak demand periods.
- On-time performance: 85% of trips should be completed no later than five minutes after the scheduled time point.
- Service availability: Evaluate the availability of transit service within Raleigh’s minority Census Block Groups.
- Passenger amenities: Provide bus shelters for stops with 25 daily boardings or more and benches for stops with 10 boardings or more.
- Vehicle assignments: Randomly assign vehicles to routes on a daily basis to ensure that buses are distributed equitably.

GoTriangle Policies

GoTriangle’s service guidelines are contained within the 2004 GoTriangle Regional Bus Service Standards. This document provides detailed expectations for GoTriangle services and establishes several service performance indicators, including:

- Unlinked Passenger trips per Vehicle Revenue Hour
- Cost Recovery Ratio
- Operating Cost per Unlinked Passenger Trip
- Subsidy per Passenger
- Unlinked Passenger Trips per Vehicle Revenue Mile

GoTriangle classifies routes as Peak Period, Daytime, Evening, or Weekend; routes are also classified as New (in operation for less than six months) or regular (in operation for six months or more) services. For each service standard, GoTriangle sets performance expectations based on the average of all routes in the category. Accordingly, once an average has been calculated, each route can be classified as low-performing (less than 75% of average), average (from 75% to 125% of average), or high-performing (greater than 125% of average).

According to the Regional Bus Service Standards, GoTriangle uses the results of the performance evaluation to address both low-performing routes and high-performing routes. Low-performing routes are defined as routes that score “low” on three to five indicators; depending on the indicators, GoTriangle will consider alignment modifications or schedule changes to improve performance. Passenger amenity improvements are often recommended for high-performing GoTriangle routes.

The Regional Bus Service Standards also guide Title VI compliance. Although Title VI evaluations are processed separately from service standards, GoTriangle evaluates additional indicators to compare predominantly minority Census tracts with predominantly non-minority Census tracts, to ensure they are distributing and allocating services, amenities, and other resources equitably. Indicators considered under GoTriangle’s Title VI evaluation include:

- Impact on minority communities and minority-owned businesses during and after construction.
• Impacts that may be felt in minority communities, including increased traffic and the amount of available parking.
• Transit vehicle load factors between minority and non-minority Census tracts.
• Vehicle headways in minority and non-minority Census tracts.
• Distribution of amenities (benches, shelters, etc.) in minority and non-minority Census tracts.
• Transit access (distribution of transit services, number of people within a one-half mile walking distance to the system) in minority and non-minority Census tracts.

GoCary Policies

GoCary developed Fixed Route Transit Service Standards in 2014, in part to ensure that the Town of Cary complies with nondiscrimination laws and regulations, including Title VI. The goal of the service standards is to establish policies necessary to ensure that GoCary service does not create disparate impacts on minority populations nor pose disproportionate burdens on low-income populations. Beyond this overarching goal, the document also outlines several standards:

• Vehicle loads: Vehicle loads should not exceed seating capacity on 30% or more of the trips provided on a given route, or exceed a load factor of 1.30.
• Vehicles will be assigned based on ridership demand.
• Service frequency: Thirty minute frequency on all routes during peak periods and 60-minute frequency on all fixed loop routes and off-peak period service
• On-time performance: Average system-wide on-time performance of 95%
• Service availability: Provide bus service to at least 50% of Cary residents living within three-quarters of a mile of a bus route
• Distribution of amenities: Provide a shelter at bus stops with over 20 boardings per day

WCTS Policies

WCTS's Operations Guide (2015) outlines how the system's coordinated public and human service transportation operations are designed, operated, and delivered. The requirements and standards included in the Operations Guide are specific to coordinated service provision.

WCTS's primary service indicator is on-time performance. The Operations Guide states that the contractor is responsible for maintaining a minimum standard of "on-time vehicle trips" of 95% on both a daily trip basis and over the course of the contract period. The operations guide also sets several requirements regarding scheduling and dispatch, including:

• Daily scheduling sets a target that establishes that 99% of all trips (individual riders) do not spend more than one hour "in-vehicle" riding time.
• On-time performance measures the actual pick-up time with the scheduled pick-up time, as well as arrival prior to appointment time. A trip is considered "on-time" if the vehicle arrives for the rider within ± 30 minutes of the scheduled time in addition to arriving at appointment no later than appointment time. A minimum of 95% of all trips within Raleigh should be picked up within 60 minutes. Outside of Raleigh, a minimum of 95% of all trips should be picked up within 90 minutes.
Service Guidelines and Performance Measures

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- The contractor should schedule and dispatch services that average at least 1.5 trips per hour monthly.
Appendix B  Wake Bus Plan
Classification of Routes

All Wake Transit Plan funded fixed route bus routes have been categorized according to the recommended and updated service guidelines (see Figure 13). Categorized routes include bus routes in the 2023 Wake Bus Plan and funded through Fiscal Year 2025.
### Figure 13  Wake Transit Plan Funded Routes by Category (2023)

<table>
<thead>
<tr>
<th>Category</th>
<th>GoRaleigh</th>
<th>GoCary</th>
<th>GoTriangle</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequent Route</strong></td>
<td>▪ 1 Capital</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 5 Biltmore Hills (FY24)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 6 Glenwood (FY24)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 7 South Saunders</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 9 Hillsborough (FY24)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 11 Avent Ferry (FY25)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 15 WakeMed (replaced FY25)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 19 Apollo Heights</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Local Route</strong></td>
<td>▪ 2 Falls of Neuse</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 3 Glascock</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 4 Rex Hospital</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 8 Six Forks</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 10 Longview</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 12 Method</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 16 Oberlin</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 18 Poole</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 21 Caraleigh</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 27L Blue Ridge-Trinity</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 36 Creedmoor</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Community Route</strong></td>
<td>▪ 11L Southwest</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 15L Trawick Connector</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 17 Rock Quarry</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 18L Poole-Barwell</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 20 Garner</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 25L Triangle Town Link</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ Wake Forest Loop</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>All-Day Regional Route</strong></td>
<td>▪ 33 Knightdale</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 40X Wake Tech Express</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 70X Glenwood North</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Peak-Only Route</strong></td>
<td>▪ 55X Poole Road Express</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ FRX Fuquay-Varina-Raleigh Express</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ WRX Wake Forest-Raleigh Express</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 100X Raleigh-RTC-Durham</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 300 Cary-Raleigh</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 305 Holly Springs-Apex-Raleigh</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 310 Cary-RTC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ CRX Chapel Hill-Raleigh Express</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ DVX Duke-VA Express</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ ZWX Zebulon-Wendell-Raleigh Express</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Appendix C  Peer Review

Peer transit systems were identified through the National Transit Database (NTD) to determine appropriate performance measures for the Wake Transit Bus Plan. This process identified 11 peers, including four North Carolina agencies (Charlotte, Durham, Greensboro, and Winston-Salem); and eight national peers (Charleston, SC; Fort Wright, KY; Indianapolis, IN; Little Rock, AR; Madison, WI; Nashville, TN; Phoenix, AZ; and Richmond, VA). As a reference, the document also includes standards used by national leaders in transit service development and aspirational peers for Wake County. These agencies include the Regional Transit District in Denver; Tri-Met in Portland, Oregon; and Miami-Dade Transit in Miami; and Sound Transit in Seattle.

The information obtained in this peer review:

- Identifies best practices used in the setting and development of performance measures by transit agencies.
- Explores the existing productivity levels of transit providers operating service within Wake County
- Considers the performance standards achieved by similarly sized and positioned peer transit agencies, as well as three aspirational peers.

Best Practices

This review of transit performance measures identified best practices that ensure performance measures are used in a constructive and appropriate way and work to encourage ongoing improvement and development. The most relevant of these best practices include:

- Setting performance standards based on route type.
- Adjusting performance expectations to reflect new and existing services.
- Calculating performance based on specific standards, not averages, which by design are continually shifting and result in an unstable baseline and target that can never be achieved.
- Collecting data on route performance quarterly, but evaluating routes annually.

Peer Systems and Underlying Operating Characteristics

The peer review includes operating characteristics (service area, service area population, annual operating costs, and peak vehicles) to help interpret relative performance (Figure 14). Data on both the operating characteristics and performance measures were compiled using the National Transit Database (NTD) (2021 reporting data). Figure 15 compares GoTriangle, GoRaleigh, and GoCary to the selected peers on several measures of service performance and efficiency, while Figure 15 provides the same information for WCTS.

As part of setting performance measures, this document balances what is realistic in Wake County today (2023) with the future expected investment in the transit network. The frequent and regional bus service operated by agencies in Denver, Portland, Miami, and Seattle are monitored under standards comparable to the Wake Service Guidelines and Performance Measures (see Figure 17).
### Service Guidelines and Performance Measures

#### Wake Transit Plan – Wake Transit Bus Plan

**Figure 14 | Wake County Transit Providers and Peer Systems – Fixed Route Service Statistics (2021)**

<table>
<thead>
<tr>
<th>City</th>
<th>Service Provider</th>
<th>Service Area Size (sq. mi.)</th>
<th>Service Area Population (2010)</th>
<th>Annual Operating Costs (in millions)</th>
<th>Fixed-Route Vehicles in Peak Service</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transit Agencies Operating in Wake County</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triangle Region, NC²</td>
<td>GoTriangle</td>
<td>1,665</td>
<td>1,924,805</td>
<td>$22.5</td>
<td>61</td>
</tr>
<tr>
<td>Raleigh, NC</td>
<td>GoRaleigh</td>
<td>125</td>
<td>474,069</td>
<td>$31.4</td>
<td>75</td>
</tr>
<tr>
<td>Cary, NC</td>
<td>GoCary</td>
<td>59</td>
<td>173,587</td>
<td>$3.9</td>
<td>11</td>
</tr>
<tr>
<td><strong>Peer Agencies</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charleston, SC</td>
<td>Charleston Area Regional Transportation Authority</td>
<td>138</td>
<td>351,988</td>
<td>$16.8</td>
<td>52</td>
</tr>
<tr>
<td>Charlotte, NC</td>
<td>CATS</td>
<td>675</td>
<td>1,302,619</td>
<td>$104.1</td>
<td>159</td>
</tr>
<tr>
<td>Durham, NC</td>
<td>Durham Area Transit Authority</td>
<td>93</td>
<td>283,506</td>
<td>$24.8</td>
<td>43</td>
</tr>
<tr>
<td>Fort Wright, KY</td>
<td>TANK</td>
<td>267</td>
<td>278,653</td>
<td>$19.0</td>
<td>97</td>
</tr>
<tr>
<td>Greensboro, NC</td>
<td>Greensboro Transit Authority</td>
<td>127</td>
<td>269,666</td>
<td>$16.1</td>
<td>41</td>
</tr>
<tr>
<td>Indianapolis, IN</td>
<td>IndyGo</td>
<td>396</td>
<td>928,281</td>
<td>$83.9</td>
<td>127</td>
</tr>
<tr>
<td>Little Rock, AR</td>
<td>Rock Region Metro</td>
<td>64</td>
<td>126,103</td>
<td>$15.4</td>
<td>34</td>
</tr>
<tr>
<td>Madison, WI</td>
<td>Metro Transit</td>
<td>126</td>
<td>348,359</td>
<td>$47.4</td>
<td>139</td>
</tr>
<tr>
<td>Nashville, TN</td>
<td>Metropolitan Transit Authority</td>
<td>504</td>
<td>694,144</td>
<td>$76.5</td>
<td>117</td>
</tr>
<tr>
<td>Phoenix, AZ</td>
<td>Valley Metro</td>
<td>520</td>
<td>2,034,618</td>
<td>$179.7</td>
<td>421</td>
</tr>
<tr>
<td>Richmond, VA</td>
<td>GRTC</td>
<td>185</td>
<td>492,198</td>
<td>$44.9</td>
<td>122</td>
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<tr>
<td>Winston-Salem, NC</td>
<td>Winston-Salem Transit Authority</td>
<td>134</td>
<td>252,434</td>
<td>$15.1</td>
<td>31</td>
</tr>
<tr>
<td><strong>Peer Average</strong></td>
<td></td>
<td>269</td>
<td>613,547</td>
<td>$53.6</td>
<td>115</td>
</tr>
</tbody>
</table>

Source: National Transit Database (2021), U.S. Census and local provider data

²Includes service outside of Wake County
### Service Guidelines and Performance Measures

#### Wake Transit Plan – Wake Transit Bus Plan

Figure 15 | Wake County Transit Providers and Peer Systems – Fixed Route Operating Statistics (2021)

<table>
<thead>
<tr>
<th>City</th>
<th>Service Provider</th>
<th>Passenger Boardings per Revenue Hour</th>
<th>Passenger Boardings per Revenue Mile</th>
<th>Operating Cost per Passenger Boarding</th>
<th>Cost per Revenue Hour</th>
<th>Farebox Recovery (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transit Agencies Operating in Wake County</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triangle Region, NC³</td>
<td>GoTriangle</td>
<td>8.8</td>
<td>0.4</td>
<td>$19.24</td>
<td>$168.87</td>
<td>10.3%</td>
</tr>
<tr>
<td>Raleigh, NC</td>
<td>GoRaleigh</td>
<td>10.8</td>
<td>0.9</td>
<td>$9.20</td>
<td>$99.10</td>
<td>14.2%</td>
</tr>
<tr>
<td>Cary, NC</td>
<td>GoCary</td>
<td>4.3</td>
<td>0.3</td>
<td>$20.87</td>
<td>$89.90</td>
<td>9.5%</td>
</tr>
<tr>
<td><strong>Peer Agencies</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charleston, SC</td>
<td>Charleston Area Regional Transportation Authority</td>
<td>9.8</td>
<td>0.8</td>
<td>$9.19</td>
<td>$90.09</td>
<td>19.05%</td>
</tr>
<tr>
<td>Charlotte, NC</td>
<td>CATS</td>
<td>8.5</td>
<td>0.6</td>
<td>$17.62</td>
<td>$149.33</td>
<td>6.34%</td>
</tr>
<tr>
<td>Durham, NC</td>
<td>Durham Area Transit Authority</td>
<td>20.7</td>
<td>1.6</td>
<td>$5.62</td>
<td>$116.63</td>
<td>0.00%</td>
</tr>
<tr>
<td>Fort Wright, KY</td>
<td>TANK</td>
<td>7</td>
<td>0.5</td>
<td>$14.28</td>
<td>$100.69</td>
<td>9.16%</td>
</tr>
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<td>Greensboro, NC</td>
<td>Greensboro Transit Authority</td>
<td>11.3</td>
<td>0.9</td>
<td>$8.95</td>
<td>$101.04</td>
<td>7.47%</td>
</tr>
<tr>
<td>Indianapolis, IN</td>
<td>IndyGo</td>
<td>7.5</td>
<td>0.6</td>
<td>$20.14</td>
<td>$150.40</td>
<td>4.55%</td>
</tr>
<tr>
<td>Little Rock, AR</td>
<td>Rock Region Metro</td>
<td>9.9</td>
<td>0.7</td>
<td>$12.71</td>
<td>$126.26</td>
<td>5.45%</td>
</tr>
<tr>
<td>Madison, WI</td>
<td>Metro Transit</td>
<td>16.2</td>
<td>1.3</td>
<td>$8.80</td>
<td>$142.30</td>
<td>17.56%</td>
</tr>
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<td>Nashville, TN</td>
<td>Metropolitan Transit Authority</td>
<td>10.7</td>
<td>0.9</td>
<td>$18.43</td>
<td>$197.06</td>
<td>4.89%</td>
</tr>
<tr>
<td>Phoenix, AZ</td>
<td>Valley Metro</td>
<td>14.3</td>
<td>1.3</td>
<td>$7.32</td>
<td>$104.46</td>
<td>1.22%</td>
</tr>
<tr>
<td>Richmond, VA</td>
<td>GRTC</td>
<td>11.3</td>
<td>0.9</td>
<td>$8.82</td>
<td>$99.45</td>
<td>5.07%</td>
</tr>
<tr>
<td>Winston-Salem, NC</td>
<td>Winston-Salem Transit Authority</td>
<td>9.8</td>
<td>0.8</td>
<td>$9.19</td>
<td>$90.09</td>
<td>19.05%</td>
</tr>
<tr>
<td><strong>Peer Average</strong></td>
<td></td>
<td><strong>22.1</strong></td>
<td><strong>1.7</strong></td>
<td><strong>$4.38</strong></td>
<td><strong>$93.62</strong></td>
<td><strong>20.4%</strong></td>
</tr>
</tbody>
</table>

Source: National Transit Database (2021) and local provider data

³Includes service outside of Wake County
## Service Guidelines and Performance Measures

### Wake Transit Plan – Wake Transit Bus Plan

Figure 16 | Wake County Transit Providers and Peer Systems – Demand-Response and ADA Paratransit Statistics (2021)

<table>
<thead>
<tr>
<th>City</th>
<th>Service Provider</th>
<th>Passenger Boardings per Revenue Hour</th>
<th>Passenger Boardings per Revenue Mile</th>
<th>Operating Cost per Passenger Boarding</th>
<th>Cost per Revenue Hour</th>
<th>Farebox Recovery (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transit Agencies Operating in Wake County</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wake County, NC</td>
<td>WCTS</td>
<td>1.3</td>
<td>0.1</td>
<td>$44.52</td>
<td>$57.44</td>
<td>48.1%</td>
</tr>
<tr>
<td>Triangle Region, NC</td>
<td>GoTriangle</td>
<td>2.1</td>
<td>0.1</td>
<td>$166.87</td>
<td>$358.67</td>
<td>0.1%</td>
</tr>
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<td>Raleigh, NC</td>
<td>GoRaleigh</td>
<td>1.9</td>
<td>0.2</td>
<td>$18.00</td>
<td>$34.58</td>
<td>0.5%</td>
</tr>
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<td>Cary, NC</td>
<td>GoCary</td>
<td>1.1</td>
<td>0.1</td>
<td>$127.74</td>
<td>$138.11</td>
<td>1.8%</td>
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<td>Peer Agencies</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charleston, SC</td>
<td>Charleston Area Regional Transportation Authority</td>
<td>1.8</td>
<td>0.1</td>
<td>$42.44</td>
<td>$74.30</td>
<td>3.00%</td>
</tr>
<tr>
<td>Charlotte, NC</td>
<td>CATS</td>
<td>1.2</td>
<td>0.1</td>
<td>$97.18</td>
<td>$120.09</td>
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<tr>
<td>Durham, NC</td>
<td>Durham Area Transit Authority</td>
<td>2</td>
<td>0.1</td>
<td>$61.85</td>
<td>$102.89</td>
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<tr>
<td>Fort Wright, KY</td>
<td>TANK</td>
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<td>0.1</td>
<td>$55.30</td>
<td>$76.10</td>
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<td>Indianapolis, IN</td>
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<td>$118.92</td>
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<tr>
<td>Little Rock, AR</td>
<td>Rock Region Metro</td>
<td>2.3</td>
<td>0.1</td>
<td>$28.75</td>
<td>$65.43</td>
<td>5.81%</td>
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<td>Madison, WI</td>
<td>Metro Transit</td>
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<td>$54.04</td>
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</tr>
<tr>
<td>Nashville, TN</td>
<td>Metropolitan Transit Authority</td>
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<td>0.1</td>
<td>$85.51</td>
<td>$144.12</td>
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<tr>
<td>Phoenix, AZ</td>
<td>Valley Metro</td>
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<td>0.1</td>
<td>$69.72</td>
<td>$82.13</td>
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<td>Richmond, VA</td>
<td>GRTC</td>
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<td>0.1</td>
<td>$30.63</td>
<td>$51.61</td>
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<td>Winston-Salem, NC</td>
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<td>0.2</td>
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<td>9.21%</td>
</tr>
<tr>
<td>Peer Average</td>
<td></td>
<td>1.8</td>
<td>0.1</td>
<td>$52.69</td>
<td>$85.46</td>
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Source: National Transit Database (2021) and local provider data

*Includes service outside of Wake County
### Figure 17 | Performance Standards Reported by Aspirational Peers

<table>
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<tr>
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<th>Frequent Route Performance Standards</th>
<th>Core Regional Route Performance Standards</th>
<th>Demand-Response Performance Standards</th>
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<tr>
<td></td>
<td>City</td>
<td>Service Provider</td>
<td>Passenger Boardings per Revenue Hour</td>
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<tr>
<td>Denver, CO</td>
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<td>RTD</td>
<td>25</td>
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<td>Portland, OR</td>
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<td>Tri-Met</td>
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<tr>
<td>Miami, FL</td>
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<td>Miami-Dade County</td>
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<td>Seattle, WA</td>
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<td>Sound Transit</td>
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<tr>
<td>Wake County, NC</td>
<td></td>
<td>Wake Transit Bus Plan (Proposed)</td>
<td>25</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>

5 Passengers per trip
6 Passengers per trip
## Service Guidelines and Performance Measures

### Wake Transit Plan – Wake Transit Bus Plan

<table>
<thead>
<tr>
<th>Wake County, NC</th>
<th>Wake Transit Bus Plan (Proposed)</th>
<th>$30</th>
<th>5%</th>
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</table>

Appendix A: Engagement Summary Report

As part of the FY2025-2030 Wake Bus Plan development process, community stakeholders, a core technical team and program staff reviewed the previously adopted Service Standards and Performance Guidelines, which provides Wake Transit program staff with a blueprint for conducting the annual Bus Service Performance review, informs the transit provider’s quarterly reporting process, and ultimately is used to help inform investment into future transit services.

- **Service design guidelines** set consistent standards by service type, so that similar types of service are implemented the same way across the county.
- **Performance measures** track and report on the productivity of individual routes and the overall network.

**This combined framework sets a clear, consistent, and equitable investment strategy that is understandable to Wake Transit’s stakeholders, including transit riders, transit operators, elected officials, and the taxpayers.**

Throughout the COVID-19 pandemic, Wake County fixed-route transit operators have suspended fare collection on all routes making fare collection a moot performance metric. It has been removed from the updated policy.

A notable addition to the policy was made in direct response to increased public and agency attention to ensuring equitable transit services throughout Wake County. The Service Impact Benefit provides reduces the route performance standard by a set amount for those routes that have a high community impact by providing regular transit access to transportation disadvantaged community members.

The draft Wake Bus Plan: Service Standards and Performance Guidelines was recommended by the TPAC’s Program Development Subcommittee on October 24, 2023. It is being released, along with an update to the Wake Bus Plan: ADA Funding Policy, for a 14-day public review and comment period from November 6th-November 20th, 2023. This engagement effort is being conducted in accordance with the Wake Transit Community Engagement Policy.

Members of the community can visit [https://www.goforwardnc.org/wake-county/get-involved/](https://www.goforwardnc.org/wake-county/get-involved/) to view documents available for public review and other Wake Transit-related outreach and communications activities. On that page, you can submit questions and comments to the planning team as well as sign up to receive emails for future Wake Transit program updates and activities.

This section, Engagement Summary Report, will be updated with information and comments collected during the public review period to be provided to the CAMPO and GoTriangle governing boards prior to their consideration for adoption.