

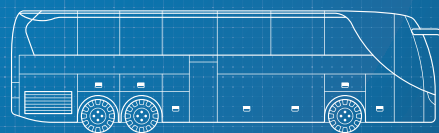
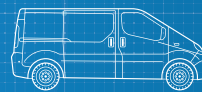


# REGIONAL HUMAN SERVICES TRANSPORTATION COORDINATION PLAN

*Vol. III*



BERKELEY-CHARLESTON-DORCHESTER  
COUNCIL OF GOVERNMENTS  
PLANNING, PARTNERSHIP & PROSPERITY



**Title**

Regional Human Services Transportation Coordination Plan

**Author**

Berkeley-Charleston-Dorchester Council of Governments

**Supersedes**

Regional Human Services Transportation Plan (2015)

**Funding Source**

U.S. Department of Transportation's Federal Highway Administration and Federal Transit Administration under the Metropolitan Planning Program, Section 104(f) of Title 23, U.S. Code.

**Board of Directors Adoption**

XX/XX/22 (anticipated)

**Asistencia Lingüística**

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The Arc of South Carolina  
Trident Area Agency on Aging  
Unlimited Possibilities



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Section Title

# CONTEXT

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# PURPOSE

*Everyone - regardless of age, ability, or income - needs to be able to get around.*

As people age, experience a physical or cognitive disability, or struggle to afford rising cost of living in our region, it helps to have an accessible and affordable travel option available.

Without it, people are challenged to get to work, attend school, visit a doctor, buy groceries, or complete one of the million other daily tasks or items on their to-do lists. This Regional Human Services Transportation Coordination Plan brings together public transit<sup>1</sup> and “human service” providers<sup>2</sup> to identify the mobility needs of people that might otherwise fall through the cracks.



## Who does it serve?

Specifically, this Plan is intended to identify and suggest actions that will address the needs of 3 groups:

- + Older adults
- + People with disabilities
- + Low-income residents

## How will it make a difference?

The process outlined in this Plan seeks to coordinate otherwise siloed transportation providers to leverage scarce transportation resources and expand the region’s available mobility options.

# TRANSPORTATION DISADVANTAGED



**15%**  
of  
*Total Population*

## Older Adults

As people age, their transportation needs change. Private vehicle use may no longer be possible due to loss of physical abilities.<sup>3,4,5</sup>

While the need for commuting to work may decrease with

age, the need for more routine medical visits may increase<sup>6</sup>. However, the desire to continue living independently at home, with the ability to access necessary goods and services or to participate in social activities, does not necessarily diminish with age. In short, reliable and affordable transportation for older adults ensures a high-quality of life and, to the extent possible, an independent lifestyle.

For the purposes of this Plan, older adults are defined as people 65 and older to align with the U.S. Census Bureau<sup>7</sup>. The total population of individuals 65 and older in the tri-county region increased by almost 50% between 2012 and 2019, from 76,000 people to 113,000 people of the region's total population<sup>8</sup>. Should the BCD region continue to grow in the same way it has been growing, older adults may constitute as much as 22% (126,000 people) of the total population by 2035<sup>9</sup>.

## People with Disabilities

Like older adults, limited mobility options for people with disabilities can also impact access to employment and social opportunities. A 2004 survey by the National Organization on Disability found

that only 35% of people with disabilities reported being employed part- or full-time compared to 78% of people without a disability. Compared to their counterparts, people with disabilities were also less likely to socialize, eat out, or attend religious services and were three times more likely to live in poverty.

A major contributing factor identified in the 2004 survey was a lack of access to transportation, where reportedly 31% of people with disabilities did not have access to transportation compared to just 13% of people without a disability<sup>10</sup>.

The U.S. Census Bureau defines a disability as a serious difficulty in hearing, vision, cognition, ambulation, self-care, or independent living<sup>11</sup>. While the proportion of the total population in the tri-county region with a disability has remained relatively steady, increasing slightly from 11% in 2012 to 12% in 2019, the region's total population has ballooned over that same time period. Consequently, the total number of people with at least one disability increased from approximately 74,000 in 2012 to 93,000 in 2019.

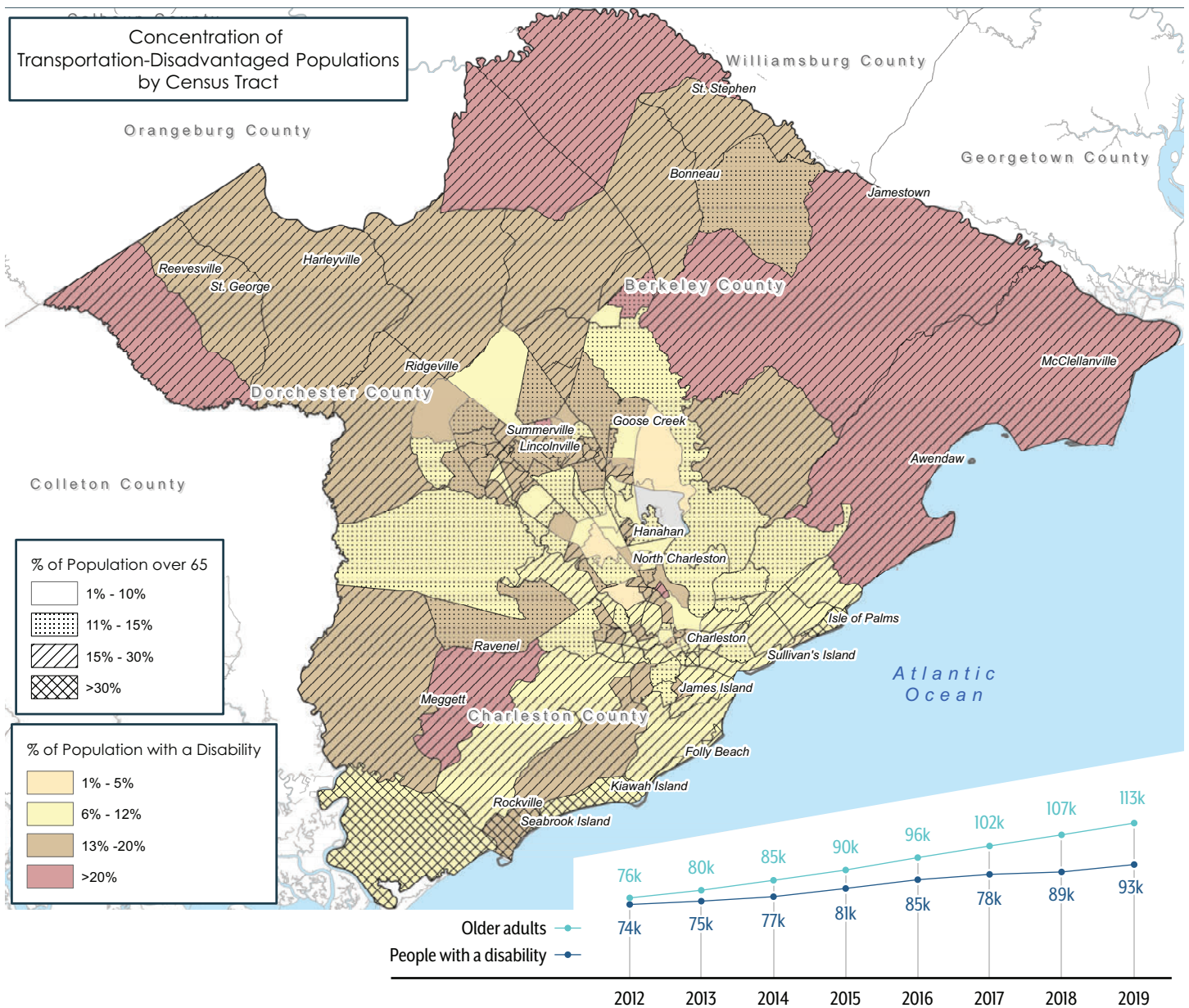
In addition, disabilities often exist in combination, with individuals experiencing more than one disability<sup>12</sup>. In the tri-county region, 46% of people with a disability over the age of 4 experience multiple disabilities<sup>13</sup>.

Just as people may experience multiple disabilities, there is a large overlap in demographics between older adults, people with disabilities, and low-income residents in our region.

The U.S. Census Bureau estimated that approximately 34% of older adults in the tri-county region experience at least one disability in 2019<sup>14</sup>. In addition, a similar overlap existed between disability status and the percent of people living below the Federal poverty line<sup>15</sup> (18% of people with a disability compared to 12% without a disability)<sup>16,17</sup>.

**Figure 1** shows the concentration and overlap of older adults and people with at least one disability across the three counties.

**FIGURE 1:** Transportation Disadvantaged Populations (ACS, 2015-2019)<sup>18</sup>



**Low-income Residents<sup>19</sup>**

**13%**  
of  
**Total Population**

The income disparities that exist between poverty and disability status is seemingly compounded when considering the combined cost of housing and transportation in the tri-county region.

According to the Center for Neighborhood Technology, the average household in the tri-county region spends right around the Center’s recommended amount of ‘30% or less’ of income on housing, but spends more (and often much more) than the recommended 15% of income on transportation<sup>20</sup>.

This may suggest that residents are locating further away from employment centers to find affordable housing but at the expense of spending more on transportation and risking having fewer transportation options available.



# REQUIREMENTS



This Plan is designed to help leverage the limited transportation resources available, roughly \$500,000 per year in federal funding, specifically for improving transportation options for older adults, people with disabilities, and low-income residents.

As the designated recipient for federal funding, the BCDCOG administers this funding in urban areas of the tricounty region as part of FTA's 'Section 5310' program<sup>21</sup>, and has the flexibility to select sub-recipients for urban Section 5310 funding, as long as recipients are funding transportation services and objectives clearly documented in this Plan<sup>22</sup>. Using a comparable process, the South Carolina Department of Transportation (SCDOT) administers the 'Section 5310' program to distributed funding to sub-recipients serving rural areas across the state<sup>23</sup>.

## Eligible Activities

Below is a list of activities that are eligible for Section 5310 funding:

### *Capital (80% Federal Funding with 20% Local Match)*

- › Vehicle purchases (buses, vans, or supporting new accessible taxi, ridesharing, or vanpooling programs)
- › Wheelchair lifts, ramps, and securement devices
- › Transit-related technology for scheduling and routing
- › Pedestrian facilities that improve access to transit stops
- › Wayfinding signage or technology

### *Programmatic (50% Federal Funding and 50% Local Match)*

- › Training
- › Volunteer driver programs
- › Incremental cost of providing same-day or door-to-door service
- › Meal delivery services for homebound individuals
- › Mobility management programs that decrease reliance on paratransit service
- › Acquisition of transportation services via a contract, lease agreement, or other agreement

## Timeline

Plans for coordination of human services transportation serves, like this one, create a systematic way for communities to improve collaboration and communication among transportation providers and human service organizations. FTA requires the following be included in this Plan<sup>24</sup>:

- + Documentation of existing public, private, and nonprofit transportation services
- + Assessment, either qualitatively or quantitatively, of the unmet transportation needs of transportation disadvantaged populations
- + Listing of potential strategies to address the identified transportation needs
- + Prioritized potential strategies based on feasibility and available resources
- + Timeframes for implementation of the prioritized strategies

FTA requires that this Plan be updated at least every five years so that it follows the regular update cycle of the region's long-range transportation plans.

Below is a brief timeline of how the Section 5310 program has evolved with federal transportation authorizations:

- **2005: Adoption of SAFETEA-LU<sup>25</sup>**
  - Created the first requirements for transportation coordination plans
  - Linked three grant programs - Section 5310, Section 5316<sup>26</sup>, and Section 5317<sup>27</sup> - by consolidating a collective set of strategies to address mobility challenges for disadvantaged populations into a single plan
- **2012: Adoption of MAP-21<sup>28</sup>**
  - Made sweeping changes to the transit coordination plan requirements, including the repeal of the Section 5316 and Section 5317 programs and the bolstering of the Section 5310 program
  - Required that strategies funded by Section 5310 must be specifically identified in a coordination Plan
  - Change placed an increased emphasis on the need for public engagement early in the planning process to help identify mobility challenges and to shape the recommended list of strategies
- **2016: Adoption of the FAST Act<sup>29</sup>**
  - Included additional recommendations to increase participation by recipients of federal grants in locally developed, coordination planning processes

*Note: Adoption of the Infrastructure Investment & Jobs Act in 2022<sup>30</sup> made no structural, formulaic, or programmatic changes to Section 5310*

# STATUS OF PRIOR PLAN IMPLEMENTATION



This Plan serves as an update to BCDCOG’s most recently adopted Transportation Coordination Plan from 2015. As shown in **Figure 2**, most of the identified strategies (or a slightly modified version of the strategies) from the 2015 Plan have become ongoing regular activities through BCDCOG’s administration of the rural and urban transit systems.<sup>31</sup>

**FIGURE 2:** *Status of 2015 Strategies*

PREVIOUSLY-IDENTIFIED NEEDS	2015 STRATEGIES	STATUS THROUGH 2021
<b>ADMINISTRATION:</b> Explore non-traditional transit options	Conduct a pilot project to subsidize taxi, private transportation providers, or ride-hailing (Transportation Network Companies) services for medical trips	Ongoing: CARTA partnered with Uber and UZURV to launch CARTA OnDemand in February 2021 to provide subsidized transportation to medical appointments, including dialysis
	Create a specific shuttle service for dialysis patients	
	Coordinate volunteer transportation for passengers receiving cancer treatment	Incomplete: No progress to-date
	Examine the potential for a water shuttle	Incomplete: In 2018, CARTA identified a potential ferry route between Daniel Island and downtown Charleston; however, this service did not advance to a pilot project <sup>32</sup>

PREVIOUSLY-IDENTIFIED NEEDS	2015 STRATEGIES	STATUS THROUGH 2021
<p><b>ACCESSIBILITY:</b> Improve physical access to bus stops</p>	<p>Hire new transit planning staff with a focus on improving the accessibility of bus stops</p>	<p>Ongoing: BCDCOG expanded its transit planning team in 2019 to include a staff member focused on bus stop amenities and accommodations</p>
	<p>Develop uniform design guidelines for bus stops within the region, including guidance for temporary shelter locations during roadway construction and ADA-compliant sidewalk and curb ramp access</p>	<p>Ongoing: CARTA's Board of Directors adopted the Transit &amp; Bus Stop Design Guidelines in December 2021; however, the document does not include guidance on temporary shelters during roadway construction</p>
	<p>Work with municipal and human service providers to install new transit shelters with enhanced amenities</p>	<p>Ongoing: Between 2016 and 2021, CARTA installed 54 shelters, 31 benches, 9 bike racks, 14 digital signs, over 130 solar lights, and 4 new Park-&amp;-Ride lots. Many of these additions were made possible through partnerships with local businesses and municipalities</p>
	<p>Coordinate the location of major bus stops near human service providers, concentrate future development/ redevelopment near high-frequency transit routes, and examine the role of transit-oriented development as a way to support land use plans</p>	<p>Ongoing: the Shipwatch Square Transit Center (expected completion -2024) will be co-located with a library, Social Services Hub, and substance abuse treatment facility</p> <p>Ongoing: BCDCOG is currently planning the Lowcountry Rapid Transit system and completing a related Transit-oriented Development Study</p>

PREVIOUSLY-IDENTIFIED NEEDS	2015 STRATEGIES	STATUS THROUGH 2021
<p><b>ACCESSIBILITY:</b> Improve accessibility of route information</p>	<p>Update CARTA website so that it is more user-friendly</p>	<p>Ongoing: BCDCOG revamped CARTA's website in 2017 and plans to make further changes as part of a 2022 scheduled rebranding</p>
	<p>Develop a mobile smartphone app to provide passengers with route and real-time bus arrival information</p>	<p>Ongoing: BCDCOG launched the mobile "Transit" app in 2017 and the "MyTCLink" app in 2019</p>
	<p>Install updated transit route maps at bus shelters</p>	<p>Ongoing: BCDCOG redesigned route and system maps following a Comprehensive Operational Analysis of CARTA in 2017 and plans to redesign its transit shelter maps as part of a 2022 scheduled rebranding</p>
	<p>Develop a "bus buddies" program to pair experienced bus riders with interested but hesitant bus riders</p>	<p>Ongoing: BCDCOG established the CARTA Transit Ambassador program in the early 2010s and TriCounty Link offer a "Travel Training" program</p>
<p><b>ACCESSIBILITY:</b> Expand route frequency and coverage</p>	<p>Expand transit coverage, including greater rural coverage, longer hours of operation, and extended weekend availability</p>	<p>Ongoing: Added CARTA Route 33 in 2016, increased frequency on CARTA Route 31 and CARTA Route 32 in 2021, expanded weekend service, and implemented Hospitality on the Peninsula (H.O.P.) route with service until 2:00 AM (temporarily discontinued due to COVID-19 pandemic)</p>
	<p>Study the potential for fixed-guideway bus rapid transit service with dedicated right of way to improve transit travel times</p>	<p>Ongoing: BCDCOG is currently planning the Lowcountry Rapid Transit system and completing a related transit signal prioritization pilot project along Dorchester Road</p>

PREVIOUSLY-IDENTIFIED NEEDS	2015 STRATEGIES	STATUS THROUGH 2021
<b>COORDINATION:</b> Improve coordination among transportation agencies, human service agencies, 211 centers, and local communities	Convene regular advisory board meetings to track progress towards implement of the Plan	Ongoing: “Human Service Transportation Partners” meetings convened regularly between 2015 and 2019 (temporarily discontinued during the COVID-19 pandemic)
	Create new advisory board subcommittees to improve the public perception of transit, to change perceptions of who rides transit, and to advocate for transit issues at State Coordinating Council	Ongoing: CARTA established two Transit Rider Advisory Committees (TRACs) for fixed-route and Tel-A-Ride services in 2017
	Use new advisory boards to conduct workshops with potential stakeholders and business groups	Incomplete: No progress to-date

Strategies not yet completed include the previously proposed BCDCOG-coordinated volunteer transportation services, dedicated funding for a water shuttle, employer workshops, and continued advisory group meetings for implementing the 2015 plan.



This Plan is one piece of a puzzle of transportation plans addressing regional transportation needs. The Plan works in conjunction with BCDCOG’s Regional Transit Framework and the region’s long-range transportation plans to support a broader vision of regional mobility.



## Regional Transit Framework Plan

This document sets the foundation for transit investments in the tri-county region, including fixed-route bus, express bus, bus rapid transit, bus rapid transit lite, and microtransit zones. To inform the recommendations in this framework, BCDCOG completed a transit needs assessment to identify where gaps in transit service exist for concentrations of youths, older adults, people with disabilities, low-income residents, and zero-vehicle households.

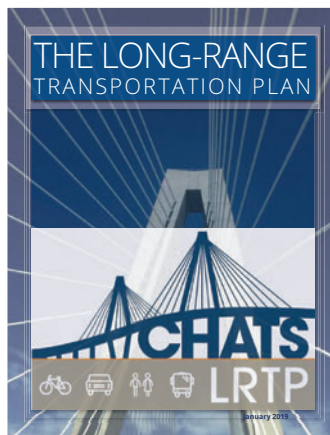
BCDCOG found that the highest transit need for these groups existed in downtown Charleston (near East Bay Street, south of US-17, and near Beaufain Street), in West Ashley (along Ashley River Road), in North Charleston (along Dorchester Road, Ashley Phosphate Road, and Otranto Road), in Goose Creek (along Harbour Lake Drive), and near Hanahan (between I-526 and Yeamans Hall Road)<sup>33</sup>.

## Long-range Transportation Plans

The metropolitan and rural<sup>34</sup> long-range transportation plans (LRTPs) prioritize spending on federal funds for transportation projects in the tri-county region, including highways, roads, bridges, transit facilities and service, and micromobility facilities. As part of the metropolitan or CHATS LRTP<sup>35</sup>, BCDCOG completed an equity analysis that identified the concentration of vulnerable populations, including older adults and people with disabilities<sup>36</sup>.

The greatest concentration of vulnerable communities was identified along the edges of Dorchester and Berkeley counties and in the downtown areas of Charleston and North Charleston.

Both regional LRTPs are shared with SCDOT to help inform their *Statewide Multimodal Transportation Plan*<sup>37</sup>, and then incorporated into the CHATS, rural, and state Transportation Improvement Programs (TIPs). TIPs essentially function as short-term budgets for prioritized transportation projects with dedicated federal funding attached to them. Projects must be eligible to receive federal funding.



## THE LONG-RANGE TRANSPORTATION PLAN

The Long-Range Transportation Plan (LRTP) provides a look forward to the transportation future of the CHATS MPO planning area in 2043. This project workbook describes the process that led to the plan’s development and the project recommendations stemming from that process.

CHATS PLANNING AREA	THE LRTP PROCESS	ROLE OF THE REPORT
<p>The Berkeley-Charlestown, Dorchester, and Berkeley Council of Governments (BCDCOG) serves as the Charleston Area Transportation Council (CHATS) Metropolitan Planning Organization (MPO) for transportation planning in the CHATS planning area.</p> <p>The MPO planning area for the CHATS planning area includes Charleston, Goose Creek, and West Ashley communities, and covers a 50-mile radius around the center of Charleston, South Carolina, from the intersection of Ashley River Road and South to Market Corner, to the north and east of the planning area.</p>	<p>The LRTP process involved public meetings and surveys to gather input from the public, transportation agencies, and other stakeholders. The process also involved a series of public hearings to gather input from the public and other stakeholders.</p> <p>The LRTP process also involved a series of public hearings to gather input from the public and other stakeholders.</p>	<p>This report provides the development, identifies and addresses the issues, and provides the plan’s recommendations. The plan’s recommendations will be used to guide transportation planning and other transportation efforts.</p>
<p><b>State of South Carolina</b></p> <p>South Carolina is a state of opportunity and innovation. It is a state of opportunity and innovation. It is a state of opportunity and innovation.</p>	<p><b>Business District</b></p> <p>A vibrant, thriving business district is a key component of a strong, resilient community. It is a key component of a strong, resilient community. It is a key component of a strong, resilient community.</p>	<p><b>High Beach</b></p> <p>High-quality beaches are a key component of a strong, resilient community. It is a key component of a strong, resilient community. It is a key component of a strong, resilient community.</p>



# PROGRAMS



BCDCOG's first mobility manager shares the benefits of the Lowcountry Go program with elementary school student

BCDCOG established its Mobility Management program in 2007 following adoption of the first volume of this Plan. The program uses the following Transportation Demand Management (TDM) strategies to encourage a shift from single-occupancy motor vehicle trips to lower-impact modes of travel:

- + Promotes regional ridematching initiatives like carpooling and vanpooling
- + Supports an "Emergency Ride Home" program to reimburse people that planned on sharing a ride through the program, but had a change in plans and needed to use a taxi or other private transportation service to get home
- + Helps employers incorporate flex time, teleworking, compressed work week, and staggered work hours
- + Encourages people to walk, bicycle, ride transit, and live near transit stops



## Timeline

2011

- › BCDCOG launched “Trident Rideshare”, an online ridematching platform accompanied by Emergency Ride Home reimbursement

2013

- › SCDOT finalized the Corridor Analysis for I-526 between North Charleston & West Ashley which included an employer survey and presented a menu of commuter-, employer-, and operations-based TDM strategies

2017

- › BCDCOG completed employer and employee surveys to learn more about existing commuter travel behaviors
- › BCDCOG finalized the Commuter Services Program Guide, a marketing plan for launching of a rebranded version of the “Trident Rideshare” platform

2018

- › BCDCOG launched the “Lowcountry Go” platform for desktop and mobile<sup>38</sup>, a successor program to “Trident Rideshare”
- › BCDCOG promoted the platform through a “LowGoTober” marketing campaign with gift baskets as incentives for participation<sup>39</sup>

2020

- › The COVID-19 pandemic drastically changed travel behaviors

2021

- › SCDOT finalized the I-26 Corridor Management Plan which identified pinch points and safety conditions along the corridor but only briefly discussed potential TDM strategies<sup>40</sup>



[Ways to Commute](#)

[About & FAQs](#)

[Employer Services](#)

[Resources](#)

[LowGoTober](#)

[Connect](#)

**WE CONNECT REAL PEOPLE WITH REAL SOLUTIONS**

CARPPOOL

SCHOOLPOOL

WALK TO WORK

BIKE TO WORK

WORK FROM HOME

BUS TO WORK

VANPOOL

EMERGENCY RIDE HOME

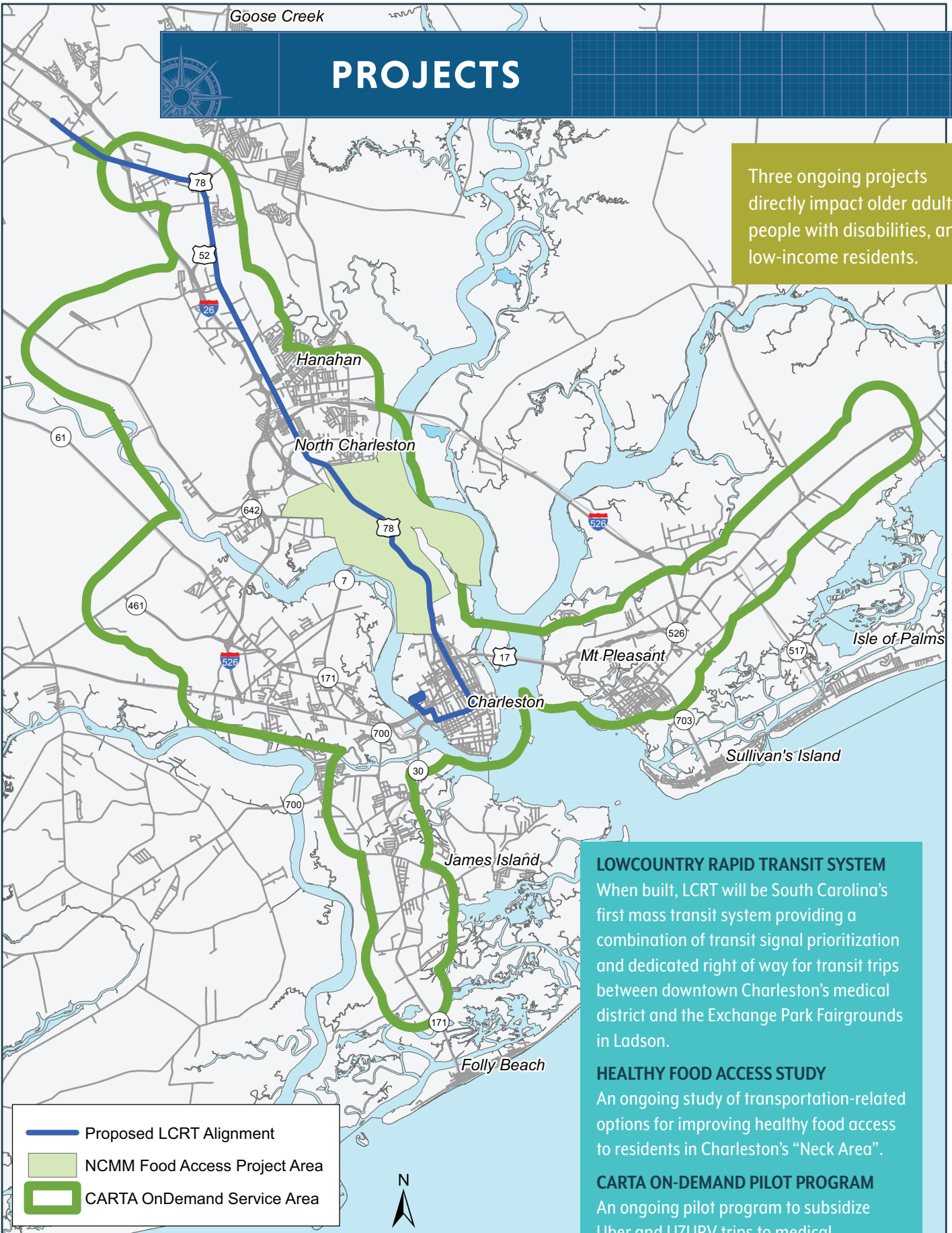
Get going and improve your commute!



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Lowcountry Go is a Berkeley-Charleston-Dorchester Council of Governments program.





**FIGURE 3:** Ongoing Projects<sup>41</sup>

# ENGAGEMENT



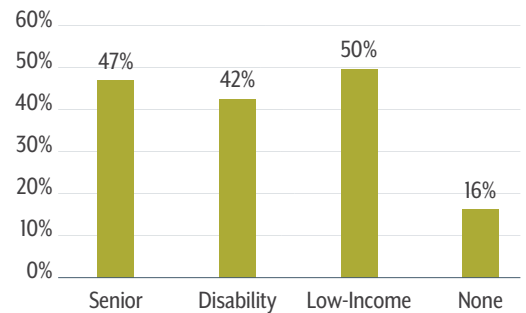
To inform the needs assessment and proposed strategies identified in the subsequent sections of this Plan, the BCDCOG engaged the general public and conducted targeted outreach to stakeholders from human service providers and advocacy groups.

## Community Survey

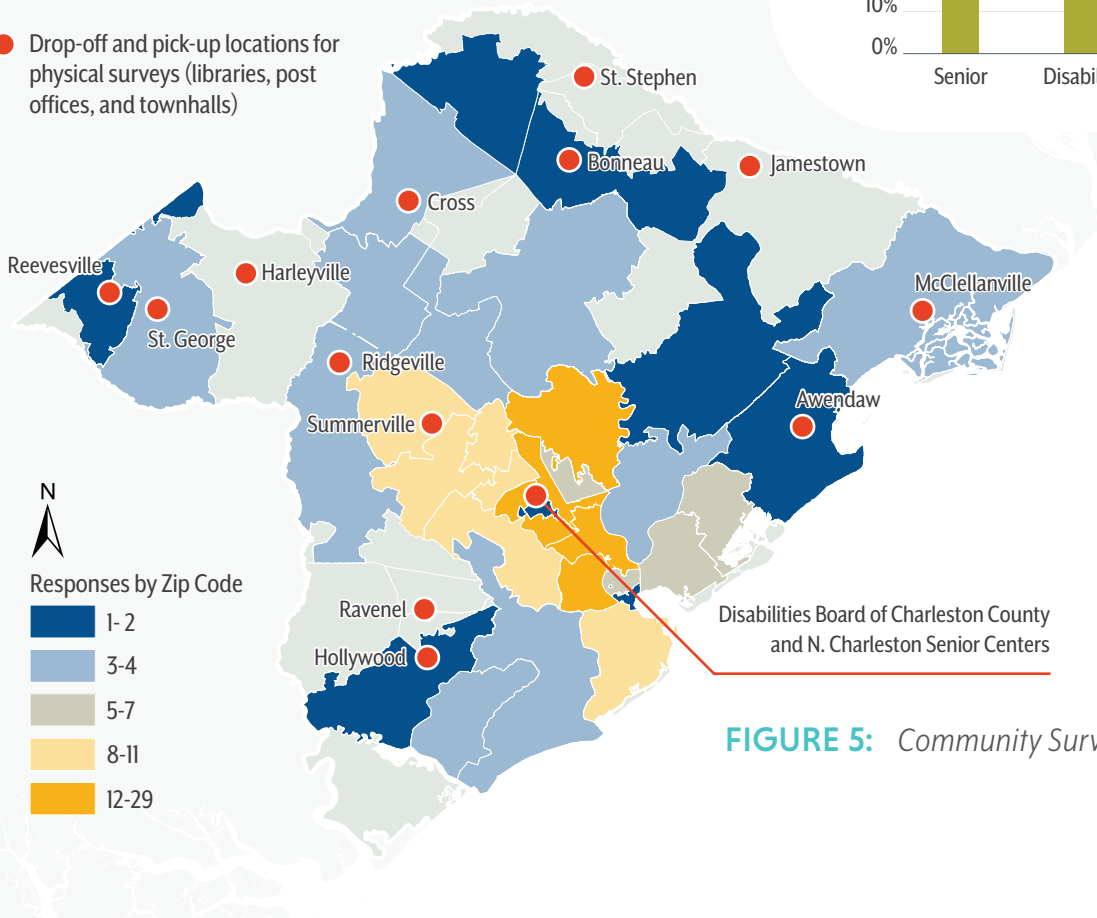
BCDCOG conducted a community survey targeted towards potential end users of this Plan's proposed strategies. BCDCOG received 272 responses to our 13-question survey over a three-week period between late May and early June of 2021.

Figure 4 shows that the survey largely captured responses from people self-identifying into one or more of the transportation disadvantaged groups. In addition, efforts were made to reach rural areas of the region. The survey collected responses from 38 of the tri-county region's 81 zip codes as shown in Figure 5. The survey instrument can be found in Appendix B.

**FIGURE 4:** Demographics of Community Survey Respondents (n=391)



● Drop-off and pick-up locations for physical surveys (libraries, post offices, and townhalls)



**FIGURE 5:** Community Survey Drop-off Locations

## Stakeholder Survey & Group Virtual Meeting

BCDCOG received 11 responses from human service providers and advocacy groups to a 10-question survey in December 2020. See Appendix C for the survey instrument. The results of the survey were discussed at a virtual meeting in January 2021 (the ability to meet in person was limited due to the COVID-19 pandemic).

In total, 12 representatives from different human service providers and advocacy groups attended the meeting. Attendees provided feedback related to technology, customer service, public transportation system improvements, infrastructure, and changing demographics. Much of the discussion was centered around the responses to the survey, with attendees elaborating on the unmet needs that they had previously identified.

## Stakeholder One-on-One Discussions & Prioritization Virtual Meeting

Between December 2021 and January 2022, BCDCOG held one-on-one discussions with representatives from 23 different human service providers and advocacy groups, plus public transit staff. At the end of January 2022, eight stakeholders participated in a virtual meeting to complete an exercise to inform this Plan's priorities.



The proposed strategies within this Plan are organized by the following four goal areas:

## Goal 1: Administration

Adopt policies, conduct training, and provide customer service that is responsive to the needs of transportation-disadvantaged populations

## Goal 2: Accessibility

Build and maintain transportation accommodations that serve the needs of people of all ages and abilities

## Goal 3: Partnerships

Create a venue for transportation providers and “human service” agencies to discuss needs, opportunities, and funding

## Goal 4: Coordination

Forge agreements for expanding services, reducing costs, or fostering resiliency through shared transportation responsibilities





## Goal 1

# ADMINISTRATION

### Goal Objective

*Adopt policies, conduct training, and provide customer service that is responsive to the needs of transportation-disadvantaged populations.*

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# PARATRANSIT SERVICES

## Objective 1.1: CARTA Tel-A-Ride

Improve existing and potential Tel-A-Ride passengers' satisfaction with the application process, communication of existing policies, and travel times

### ● Strategy 1.1.1: Tel-A-Ride Application

Simplify the CARTA Tel-A-Ride application process to reduce the burden on applicants and to help a potential applicant pre-screen whether the origin and destinations of their trips are within the service boundary

### ● Strategy 1.1.2: Tel-A-Ride Processing

Monitor the length of time it takes for an ADA Eligibility Specialist to review a Tel-A-Ride application and notify an applicant if they qualify

### ● Strategy 1.1.3: Tel-A-Ride Boundary

Study the financial feasibility of expanding the Tel-A-Ride boundary from a  $\frac{3}{4}$ -mile radius around CARTA's fixed-route bus system to the full municipal boundaries of cities in which CARTA's fixed-route system operates or identify potential Park-&-Ride locations within the existing Tel-A-Ride boundary that have comfortable waiting areas and can serve as pick-up "islands" for people who do not live in the service boundary

### ● Strategy 1.1.4: Ride Pooling System

Evaluate the existing ride combining software/process for CARTA's pre-scheduled Tel-A-Ride system and compare to alternative options

*Paratransit refers to any shared ride public service intended to serve as a safety net for people with disabilities that are unable to ride a system's standard bus service.*



## CARTA Tel-A-Ride

Responsibilities for the Charleston region's urban public transit system - Charleston Area Regional Transportation Authority (CARTA) - are shared by BCDCOG and its private sector contractor, Transdev. BCDCOG oversees the system's administrative and planning tasks while Transdev manages its day-to-day operations (hiring drivers, training drivers, and maintaining CARTA vehicles).

Although the largest share of CARTA trips take place on its fixed-route bus network, some passengers with mobility impairments require supplementary support to ease the burden of traveling to and from bus stops<sup>42</sup>. Unlike the fixed-route network that travels between designated bus stops, CARTA Tel-A-Ride provides a pre-scheduled "curb-to-curb" service.

CARTA's existing "curb-to-curb" policy for paratransit service means that it is the rider's responsibility to meet the driver at the curb. As a safety precaution, drivers are required to stay with their vehicles and passengers. Drivers may assist passengers in and out of the vehicle, but they cannot assist riders up and down steps or ramps, and under no circumstances are drivers permitted to enter a passenger's residence.

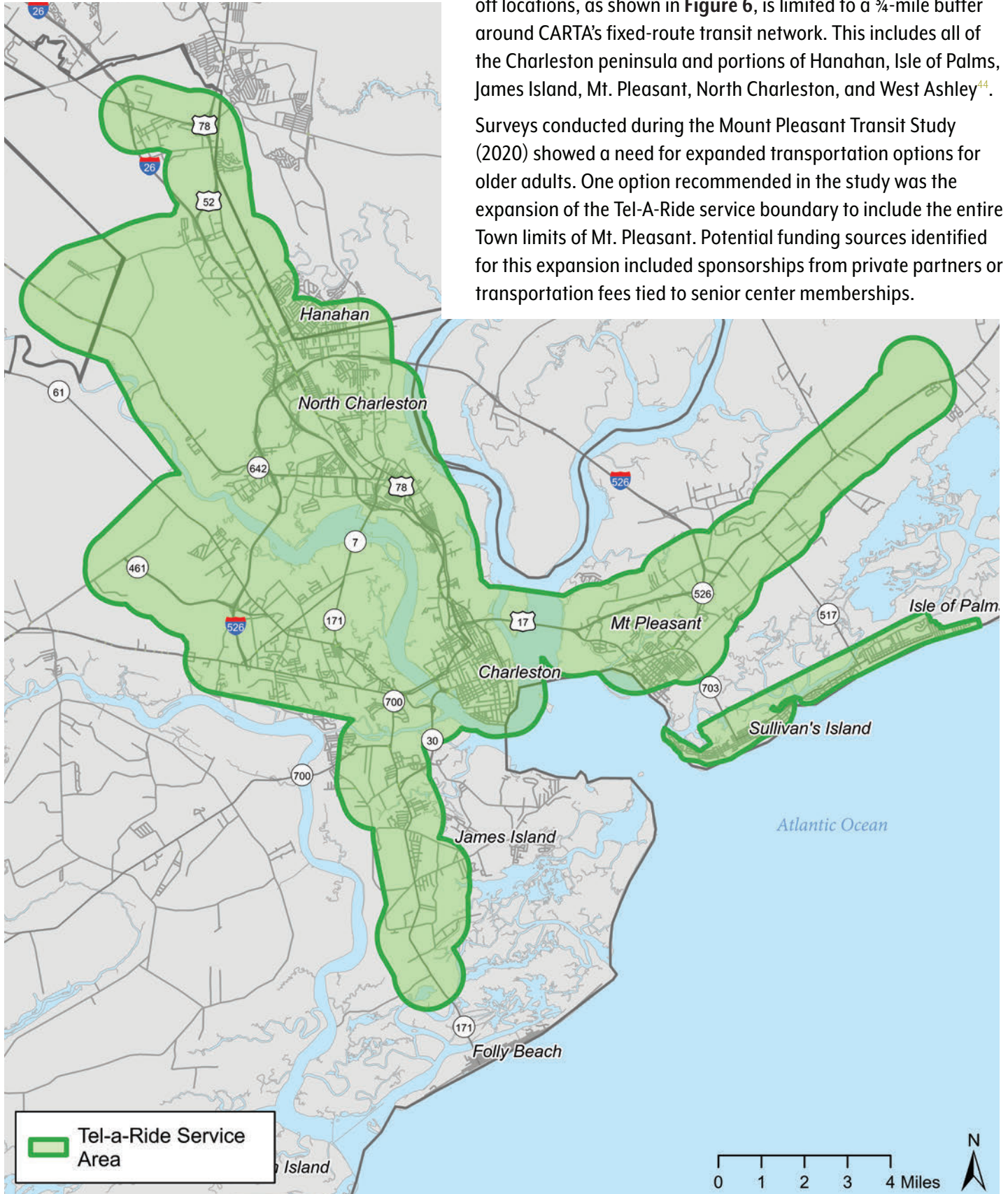
Tel-a-Ride is available on a first come - first serve basis, so passengers must make advanced reservations. Eligible passengers can schedule a trip with Tel-A-Ride 1 to 14 days in advance by calling the Tel-A-Ride office any day of the week between 8:00 AM and 5:00 PM. During the day of the trip<sup>43</sup>, CARTA strives to arrive within 15 minutes of the passenger's scheduled time. Drivers pick up passengers directly outside of their selected pick-up location and then drop the passenger off at their selected destination.

If a passenger is returning from a medical appointment and the exact time of their return trip cannot be scheduled in advance, the passenger can call the Tel-A-Ride office when they are ready to return. However, this may mean that a passenger may have to wait for an extended period of time before the Tel-A-Ride vehicle arrives. If a passenger needs to use Tel-A-Ride for a regularly recurring trip, such as commuting to work or school, they can join Tel-A-Ride's subscription service and bypass the need to individually schedule their trips.





**FIGURE 6:** CARTA Tel-A-Ride Service Boundary



## Service Boundary

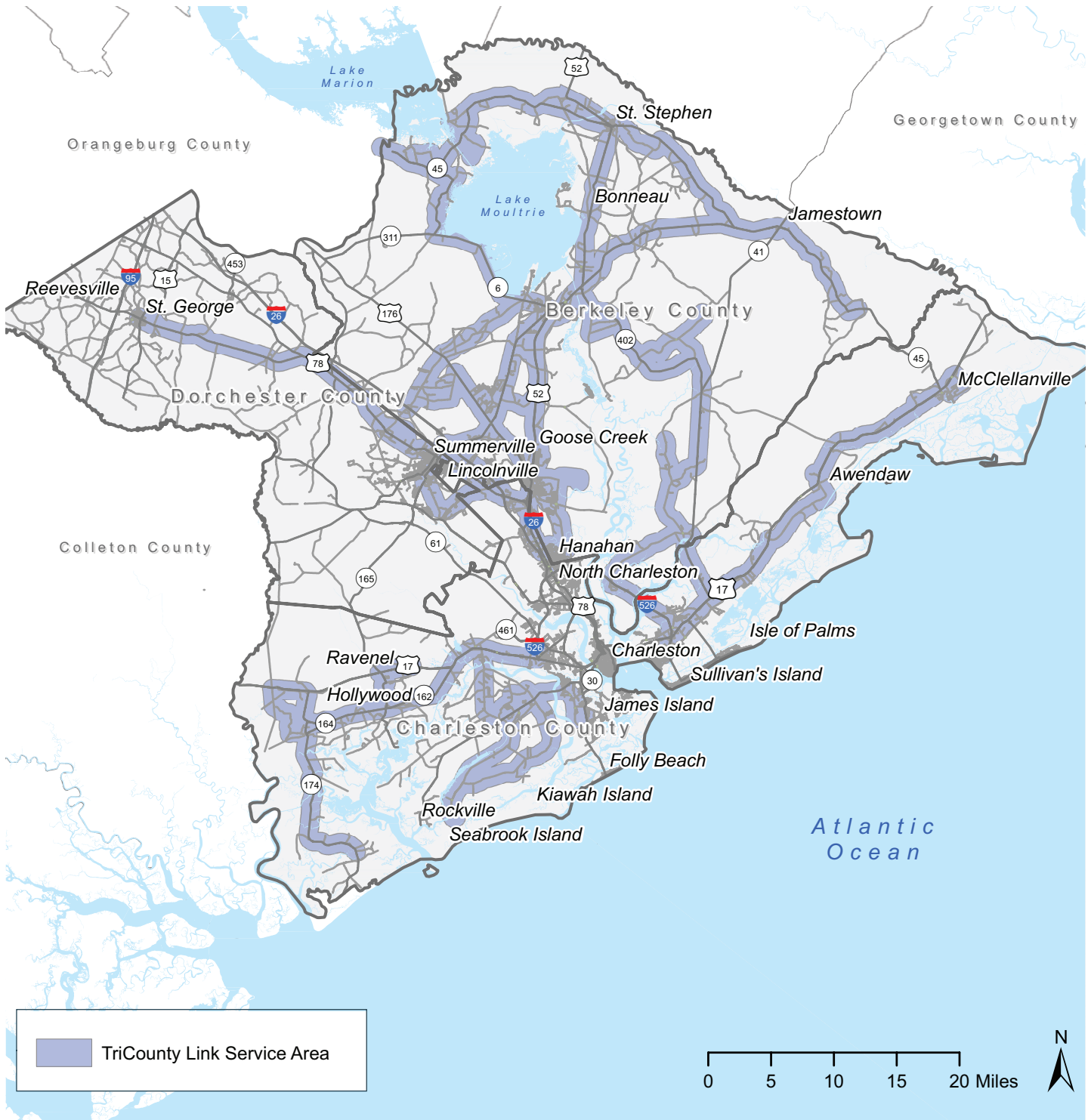
The current Tel-A-Ride service boundary for pick-up and drop-off locations, as shown in **Figure 6**, is limited to a ¼-mile buffer around CARTA's fixed-route transit network. This includes all of the Charleston peninsula and portions of Hanahan, Isle of Palms, James Island, Mt. Pleasant, North Charleston, and West Ashley<sup>44</sup>.

Surveys conducted during the Mount Pleasant Transit Study (2020) showed a need for expanded transportation options for older adults. One option recommended in the study was the expansion of the Tel-A-Ride service boundary to include the entire Town limits of Mt. Pleasant. Potential funding sources identified for this expansion included sponsorships from private partners or transportation fees tied to senior center memberships.



To qualify for TriCounty Link's deviated-route service, passengers must mail-in a completed application form<sup>47</sup> and take part in an in-person interview with a member of TriCounty Link staff to establish that the passenger is unable to use TriCounty's commuter and fixed-route services. Applicants receive an eligibility determination from TriCounty Link within 21 days after completing their application. If after 21 days, a decision has not been made, an applicant will be temporarily allowed to use TriCounty Link's deviated route service until a determination on their application is made.

**FIGURE 7:** TriCounty Link's Deviated-route Service Boundary







# DEMAND-RESPONSIVE SERVICE

## Objective 1.2: Demand-Responsive Service

Supplement non-emergency medical trips through technology-enabled, demand-responsive services

- **Strategy 1.2.1: Marketing Campaign**

Continue to promote the CARTA OnDemand pilot program through a specific marketing campaign targeted towards existing Tel-A-Ride customers, senior centers, and churches

- **Strategy 1.2.2: Expand Destination List**

Actively solicit suggestions for medical facilities that could be added to the list of eligible destinations for the CARTA OnDemand service from human service providers, existing and potential CARTA OnDemand customers, and directly from medical providers

- **Strategy 1.2.3: Monitor Usage**

Track and regularly report the number of CARTA OnDemand trips to include the origin and destination of the trips and customer demographics to inform the potential conversion of the program to a permanent service



ONDEMAND

Powered by **Uber**

Predicting the overall time it will take to complete a medical appointment can be difficult, which can make it tough to pre-schedule a trip home with paratransit services. Both the 2007 and 2015 versions of this Plan indicated a need to improve regional transportation services for non-emergency medical trips beyond Tel-A-Ride.

## CARTA OnDemand

To address this need, CARTA began a new partnership called CARTA OnDemand in February 2021 to provide a “demand-responsive” service, eliminating the need to schedule a day in advance like with Tel-A-Ride, specifically for pre-scheduled, non-emergency medical appointments.

CARTA partnered with Uber and UZURV, two Transportation Network Companies (TNCs), to subsidize the service for older adults and people with disabilities (passengers only pay \$4 for individual trips costing up to \$25 and any additional costs beyond \$25)<sup>48</sup>. Transportation Network Companies are ridehailing services that (typically) connect automobile owners driving personal vehicles with fee-paying passengers for short trips. Usually, the route scheduling and payment takes place over a smartphone app, and examples include Lyft and Uber.

Policies for both companies include accommodating people with service animals, and UZURV drivers are trained to help passengers in and out of vehicles, similar to Tel-A-Ride drivers.

While the program began as a small pilot limited to just medical trips beginning and ending within Charleston’s peninsula, the service area was expanded in August 2021 to match the boundaries of Tel-A-Ride. The parameters of the program changed once again in February 2022 when the medical trip requirement was lifted, enabling customers to use CARTA OnDemand for any trip purpose within the service area. **Figure 8** shows a jump in use of the service following the change in the boundary in July 2021.

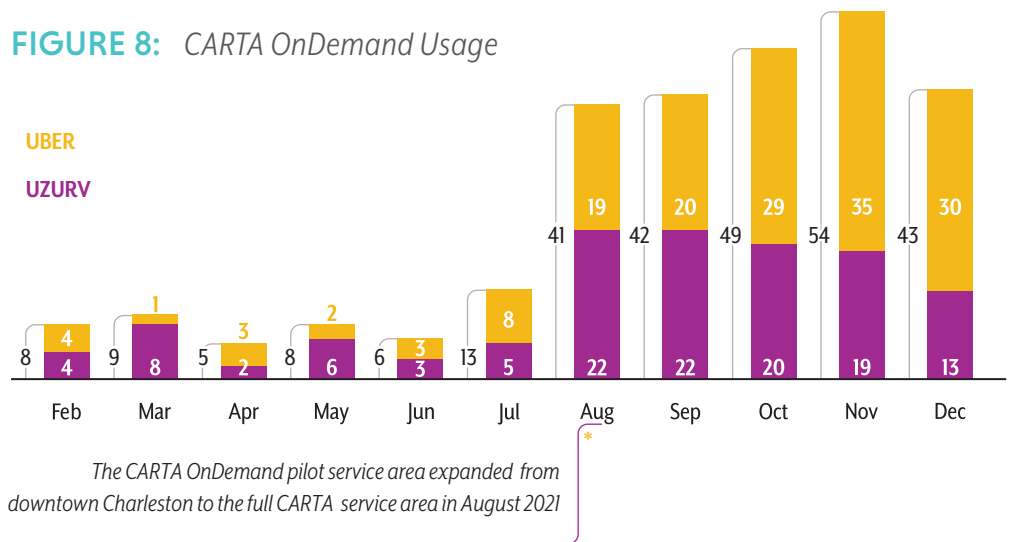
## Eligibility

Existing Tel-A-Ride passengers automatically qualify for CARTA OnDemand service and only have to notify CARTA of their interest to be added to Uber and UZURV’s internal systems. The only qualification for non-existing Tel-A-Ride passengers interested in using CARTA OnDemand is age: Applicants have to fill out a short, online or mail-in application demonstrating that they are at least 55 years old.

## Service Boundary

CARTA OnDemand is limited to a specific service area that mirrors the CARTA paratransit service area with the exception of the Sullivan’s Island and Isle of Palms communities. Service hours are on weekdays from 7:00 AM to 5:00 PM.

**FIGURE 8:** CARTA OnDemand Usage

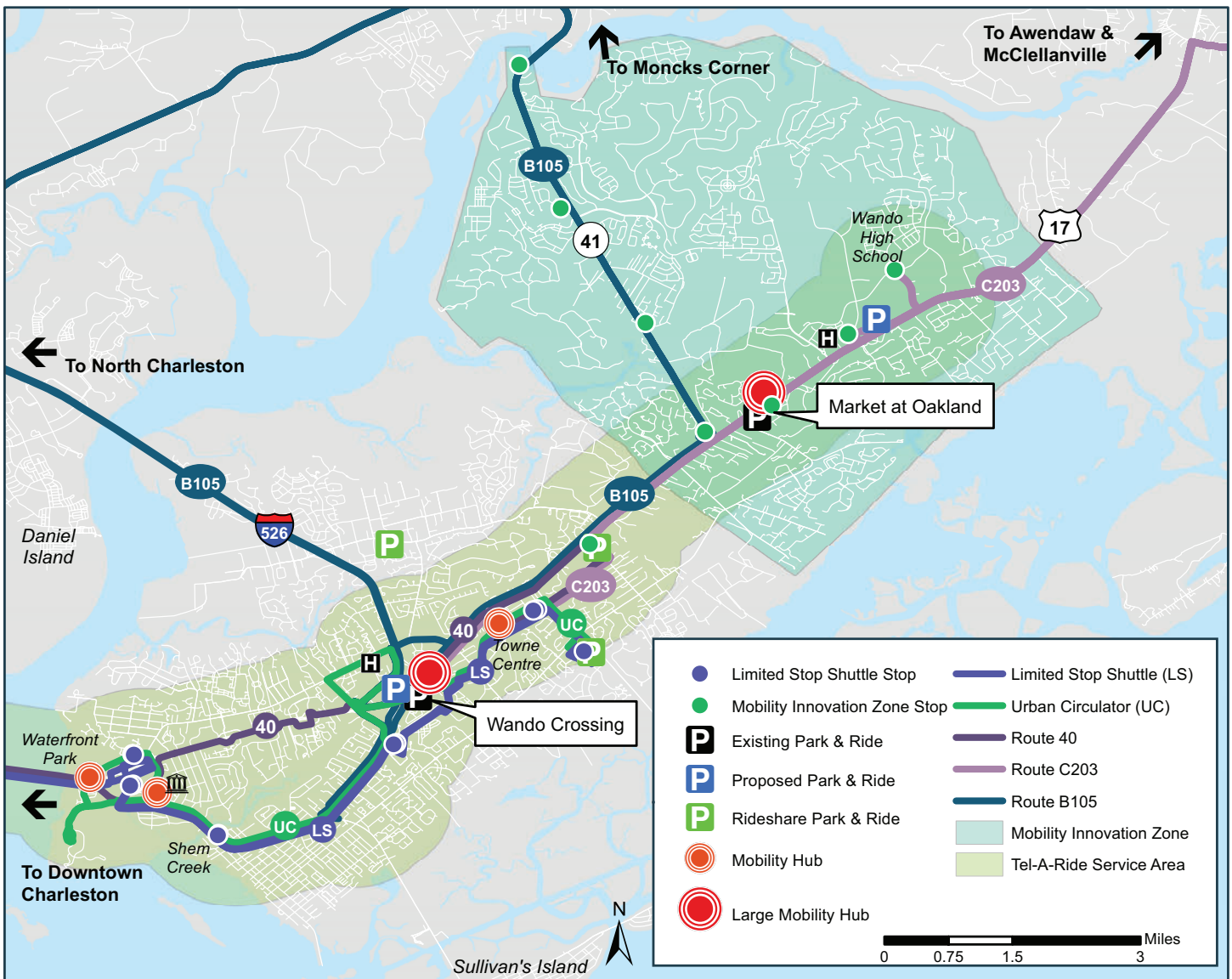


## Additional Demand-Response Service

With continued success, the CARTA OnDemand pilot service may open the door to future demand-responsive public transportation throughout the region. While demand-responsive service can focus on specific demographics, like older adults and people with disabilities, it can also target a specific geographic area in which the population and employment density is too low to support fixed-route service. In addition to taking passengers directly to their destination, demand-responsive service can also be designed to help transit passengers close the gap in traveling the first or last few miles to a transit stop. TNC companies such as Via and Spare offer microtransit technology platforms for transit vehicles which can enable agencies to directly operate demand-response service.

Phase II of the Mount Pleasant Transit Study (2020)'s recommended developing on-demand service in areas of Mt. Pleasant where fixed-route transit service was less financially feasible. As shown in **Figure 9**, the study conceptualized an on-demand service area spanning approximately 20 square miles roughly from Brickyard Parkway/Hamlin Road to the eastern Town boundaries. The service could include "door-to-door" pick-ups or pre-determined stops, and it could allow for passengers to transfer to CARTA Route 40.

**FIGURE 9:** Potential Mt. Pleasant Demand-responsive Service Area









# FARES & PASSES

## Objective 1.3: Fares & Passes

Expand the number of opportunities to purchase transit passes and to access other discounted fares

- **Strategy 1.3.1: Senior Free Ride Days**

Study the financial feasibility of expanding the number of “senior FREE ride days” beyond the existing quarterly promotion

- **Strategy 1.3.2: Multi-trip Fare Passes**

Expand the number of locations at which passengers can purchase multi-trip fare passes





## Electronic Payment

Because multi-trip passes are currently only available in-person and discounts are currently only available to passengers that are willing and able to pay for the upfront costs of multiple trips, CARTA partnered with Token Transit to enable smartphone-based passes. Passengers will be able to download the smartphone application and set up direct billing to pay for trips. Once the passenger is ready to ride CARTA, all they have to do is open the application and tap it to the buses' farebox<sup>59</sup>.

For a passenger that takes multiple trips in a given day or month, the application can be enabled to automatically apply a daily or monthly discount. For example, if a passenger takes four trips in a given day that would otherwise cost \$2.00 per trip or \$8.00 total, the cost of their trip will be capped at the 1-day pass cost of \$7.00 for a savings of \$1.00. Additional trips would lead to more savings as the customer would not be charged beyond the \$7 daily pass rate for that day. CARTA anticipates the launch of the electronic payment system and integration into the CARTA route planning smartphone application in 2022.

Human service providers and other organizations will also be able to complete bulk purchases through Token Transit's electronic payment system. On completion of the purchase, the purchaser will be able to distribute the passes by email instead of physically distributing paper passes.

## TriCounty Link Fares

A one-way fare on the TriCounty Link system is \$2.25. Like CARTA, TriCounty Link also offers customers the option to purchase multiple trip passes at a discounted rate. A weekly unlimited pass is \$18 and a monthly unlimited pass is \$70. Ambulatory customers can also purchase a 10-trip pass for \$22.50 while ADA eligible passengers can purchase a 10-trip pass for \$40. All of TriCounty Link's ticket options can be purchased at the TriCounty Link office building in Moncks Corner or can be purchased directly from TriCounty Link drivers. TriCounty Link also allows electronic fare payment through the Token Transit app.

## Stakeholder Feedback

While existing targeted discounts for public transit reach many of the transportation disadvantaged populations identified in this Plan, there remains a need to make accessing those discounts easier. Most of the existing locations to purchase CARTA passes are limited to standard business hours (weekdays from 8:30 AM to 5:00 PM). For passengers that also work during those standard business hours, they are unlikely to be able to bus to the locations that sell passes during business hours.

The anticipated implementation of a complementary electronic payment system will allow passengers with smartphones to more easily access discounted fares. However, for passengers without access to a smartphone, there may still be a need to expand the availability of in-person locations for purchasing multi-trip passes.

Additionally, during one-on-one discussions with stakeholders, several noted that "Senior FREE Ride Days" were popular and that there was a desire to expand the promotion.

# SENIOR FREE RIDE

Public transportation helps to keep seniors active and independent. Seniors should take advantage of these days and try CARTA and TriCounty Link for free!

*Email us at [cruse@ridecarta.com](mailto:cruse@ridecarta.com) if you or a group would like travel training with CARTA and/or TriCounty Link staff*

## DATES OF FREE RIDES IN 2021:


- March 20th (Saturday)
- May 26th (Wednesday): National Senior Health and Fitness Day
- August 21st (Saturday): National Senior Citizen Day
- December 11th (Saturday)



**FOR INFORMATION**

Visit [www.ridecarta.com](http://www.ridecarta.com) or call (843) 724-7420 for CARTA information regarding routes and schedules.

Visit [www.tricountylink.com](http://www.tricountylink.com) or call (843) 899-4096 for TriCounty Link information regarding routes and schedules.








## Objective 1.4: Customer Service

Complete a high-level review of logged passenger comments and work to ensure that ADA-specific complaints are thoroughly addressed

- Strategy 1.4.1: Patterns of Complaints

Review the customer service department's comment log to identify potential recurring issues



*If something needs attention, CARTA and TriCounty Link are committed to systematically tracking it through our customer service department so that service can be improved.*





## Objective 1.5: Operator Interactions

Develop more formalized systems for facilitating driver interactions with older adults and people with disabilities to improve the overall passenger experience

### ● Strategy 1.5.1: Notification Card

Work with human service providers to develop a notification card system to support communication between operators and passengers with difficulty communicating verbally because of a disability” to the end of this sentence

### ● Strategy 1.5.2: Personal Care Attendants

Develop a more formal system for operators to identify personal care attendants accompanying eligible Tel-A-Ride passengers

### ● Strategy 1.5.3: Accepted Proofs of Age

Reinforce the full range of accepted proofs of age for senior fares (e.g., Medicare cards or other I.D. cards with stated date of birth) among CARTA fixed-route operators



Avoiding misunderstandings between drivers and passengers requires a strong awareness of the range of disabilities that a passenger may be experiencing, as well as patience to help assist non-verbal passengers in exchanging information. Transdev training requires operators to learn the following strategies for interacting with people with disabilities:

- + Speak directly to the person rather than personal care attendant or friend
- + Always offer to shake hands when introduced
- + Always identify yourself and others you are with when meeting with someone who is blind or visually impaired
- + If you offer assistance, wait for a response and then follow instructions accordingly
- + Treat adults as adults
- + Do not lean against/hang on wheelchairs or mobility devices
- + Listen attentively to people with difficulty speaking
- + Place yourself at eye level when speaking to someone in a wheelchair
- + attempting to communicate if they are not aware you are trying to communicate with them
- + Relax – do not be overly insecure about language or figures of speech
- + Always carry a pen and paper to aid in communicating with non-verbal passengers

**Personal Care Attendants**

CARTA Tel-A-Ride passengers with disabilities can be accompanied by one personal care attendant to help address the passenger’s personal needs while using public transit. Tel-A-Ride passengers must indicate in their application that they will be using an attendant when they travel or when they are making reservations. These attendants can accompany a Tel-A-Ride passenger at no additional cost if the rider notifies the dispatcher of a need for a PCA when making the trip reservation. If a Tel-A-Ride passenger does not reserve space in advance for their attendant, an attendant can still accompany the passenger but must pay the same fare as the passenger. Attendants may not travel alone on Tel-A-Ride services without accompanying an eligible passenger.

Similar to CARTA Tel-A-Ride, TriCounty Link allows one personal care attendant to accompany eligible passengers free of charge. Eligibility for accompaniment of a personal care attendant is documented in the passenger’s letter from TriCounty Link notifying them of their eligibility to use the deviated-route service.

**Stakeholder Feedback**

To better accommodate all of the ways that passengers communicate, CARTA could work to formalize systems for facilitating driver interactions with older adults and people with disabilities to help improve the overall passenger experience. Stakeholders indicated a need for more consistent implementation of existing personal care attendant policies and a more formal way for attendants to be identified by drivers.

Stakeholders also noted inconsistencies in driver knowledge about what identification forms are accepted as proof of a passenger’s age. While drivers receive specific training to help prepare them to work with older adults and people with disabilities, stakeholders noted a need to identify ways to ease the burden on passengers for initiating those interactions.



## Goal 2

# ACCESSIBILITY

### Goal Objective

*Build and maintain transportation accommodations that serve the needs of people of all ages and abilities.*

### Section Navigation

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# ROUTE INFORMATION

## Objective 2.1: Route Information

Continue to build upon existing route information tactics with an emphasis on providing a wide-range of options to cover all comfort levels with technology

- **Strategy 2.1.1: In-vehicle Arrival Information**

Integrate automated stop announcement system that provide audio and visual cues of upcoming bus stop/station names into all procurement for new fixed-route CARTA and TriCounty Link vehicles

- **Strategy 2.1.2: Accessible Brochures**

Incorporate best practices for visual accessibility, such as large typefaces, matte paper stock, and colorblind-aware color schemes, into future route map brochures and work with people with visual impairments as a focus group for usability testing

- **Strategy 2.1.3: Transit Ambassador Program**

Analyze historic CARTA Tel-A-Ride applications to understand what percent of applicants expressed an interest in the CARTA Transit Ambassador program, consider expanding the existing Transit CARTA Ambassador program to TriCounty Link services as a more formal version of the “Travel Training” service, and provide ambassadors with a “train-the-trainer” session on using the mobile “Transit” and “MyTCLink” app features to navigate the fixed-route system

- **Strategy 2.1.4: Web Mapping**

Improve upon desktop-based companion to the mobile “MyTCLink” app by incorporating a built-in screen reader for people that are blind or visually impaired (alternatively, market existing transit planning through Google maps)

- **Strategy 2.1.5: Real-time Bus Information**

Continue to install scrolling digital information boards at high-demand bus stops to provide passengers without access to the mobile “Transit” and “MyTCLink” apps with real-time bus arrival information, as well as potential route detour information



*Highly-accessible route information can help simplify a complicated public transit system.*



To become a Transit Ambassador, an individual must:

- + Complete at least 2 hours of classroom training
- + Complete at least 1 hour of practical, on-bus training
- + Attend quarterly Transit Ambassador meetings
- + Attend at least 4 CARTA marketing events/activities per year
- + Volunteer at least 5 hours per month
- + Wear the Transit Ambassador vest, visor, and name tag while volunteering
- + Commit to at least 12 months of service with the goal of assisting at least 10 new passengers
- + Volunteers that would like to volunteer as senior ambassadors must be at least 55 years old.

In addition to volunteering as a regular ambassador, Transit Ambassadors can elect to participate as a student ambassador, senior ambassador, or at-work ambassador.

To participate as one of these types of ambassadors, volunteers must also help maintain a small informational kiosk to help transit riders stay informed of transit news and events. Progress towards these requirements is tracked through required monthly participation forms.

CARTA Transit Ambassadors receive a free monthly pass, CARTA-branded gear, and a letter of recognition. Currently, there are four Transit Ambassadors helping to support and promote transit in the region.

## Route Information Features

Figure 12 lists all route information features currently available on the CARTA and TriCounty Link systems:

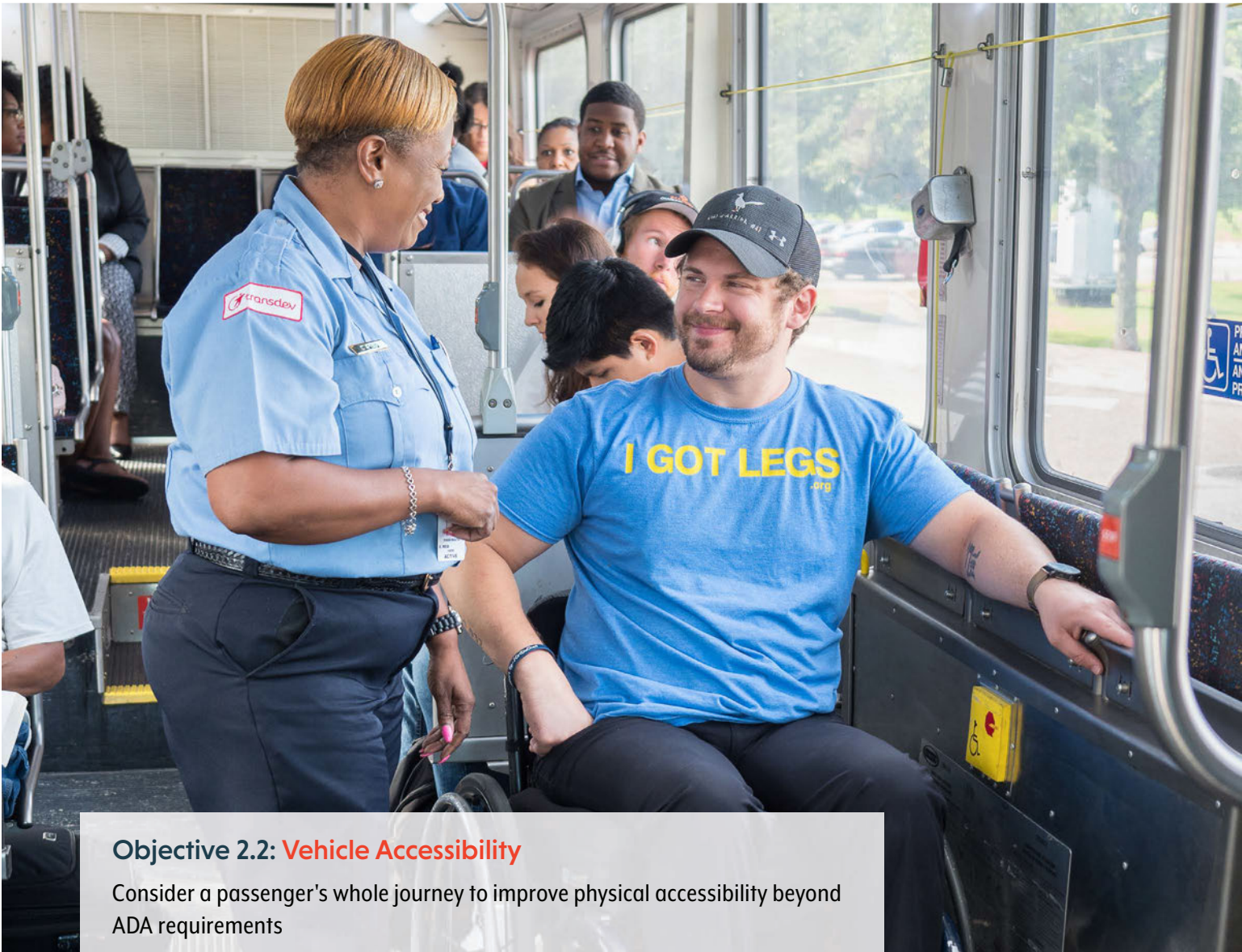
**FIGURE 12:** *Route Information Features*

ROUTE INFORMATION FEATURES	SYSTEM AVAILABILITY
Paper schedules on transit vehicles	CARTA / TriCounty Link
Website with digital system map and downloadable schedules	CARTA / TriCounty Link
CARTA customer service department available via phone, voicemail, chat, mail, or through the online contact	CARTA / TriCounty Link
Operator announcements at major time point stops	CARTA / TriCounty Link
Plans transit trips within Google Maps, including walk-to-transit trips, multi-route trips, and transit connections between CARTA and TriCounty Link	CARTA / TriCounty Link
Route map poster and time schedules posted within bus shelters	CARTA
Mobile “Transit” app and desktop mapping tool	CARTA
Automated call/text system for fixed-route bus stops	CARTA
Mobile “MyTCLink” app	TriCounty Link





# VEHICLE ACCESSIBILITY



## Objective 2.2: **Vehicle Accessibility**

Consider a passenger's whole journey to improve physical accessibility beyond ADA requirements

- **Strategy 2.2.1: At-home Ramps**

Assess the financial feasibility of an at-home accessibility ramp give-away program to help eligible Tel-A-Ride passengers travel from their residences to a Tel-A-Ride vehicle

- **Strategy 2.2.2: Temperature Regulation**

Work with officials representing municipalities to develop shared policies for transit vehicle idling and their implications on vehicle temperature regulation



Anti-idling regulations shown in **Figure 13** may require drivers to shut off buses, and for some passengers, that disruption in temperature control can affect their ability to comfortably ride the bus.

**FIGURE 13:** *Idling Ordinances by Municipality*

MUNICIPALITY	REGULATION
North Charleston	No person shall allow the engine or other mechanical equipment on a motor vehicle stopped or standing on a public street to continue to operate longer than five (5) minutes, unless movement of such vehicle is prevented by traffic control signals or is physically blocked by other vehicles. [Sec. 11-27.]
Charleston	No person shall allow the engine or other mechanical equipment on a motor vehicle stopped or standing on a public street to continue to operate longer than five (5) minutes, unless movement of such vehicle is prevented by traffic control signals or is physically blocked by other vehicles. [Sec. 19-244.]
Mount Pleasant	None

Feedback from the community survey conducted for this Plan, and from a previous online survey for BCDCOG’s Healthy Food Access project, indicated that a particular focus on improving access to grocery stores may directly benefit transportation disadvantaged populations. Responses from the community survey indicated that the three most desired destinations among respondents were healthcare facilities, food outlets, and work. This break-out of desired destinations remained consistent for respondents identifying as people with disabilities or as low-income residents. However, older adults, on average, indicated a greater desire to access places of business (i.e. shops, banks, laundry, hair salons, etc.) than work.

# STOP ACCESSIBILITY



## Objective 2.3: Stop Accessibility

Work to improve passenger's comfort and safety while traveling to bus stops and waiting for buses to arrive

### ● Strategy 2.3.1: Design Guidelines

Review BCDCOG's Transit & Bus Stop Design Guidelines to ensure bus stop placement cues for people with visual impairments are addressed and to identify additional accessibility best practices that could be incorporated into the guidelines such as incorporating barrier-free design principles to improve pedestrian access to bus stops

### ● Strategy 2.3.2: Shelter Installation

Continue to install new bus shelters and related amenities to improve the trip experience for passengers

### ● Strategy 2.3.3: Stop Request Process

Review and amend the formal bus stop request process to ensure that each request is accompanied by a timely response documenting the transit agency's decision and the rationale for the decision



In addition to vehicle accessibility requirements, the Americans with Disabilities Act also mandates that certain accessibility features be included in the design of transit bus stops<sup>62</sup>. A 2016 study found that passengers perceive wait times at bus stops with no amenities as more than twice as long as the actual wait time. The authors of the study found that the combination of a bus shelter, bench, and real-time arrival information could reduce passenger perceptions of wait times to within one minute of their actual wait times<sup>63</sup>.

### CARTA Stops & Shelters

Any new stop that is installed on the CARTA system is designed to be ADA compliant. However – as is the case with agencies across the country – some CARTA stops were installed prior to the passage of the ADA. For these stops, CARTA is making diligent efforts to upgrade the stops to be ADA compliant as funding becomes available.

The amenities at CARTA bus stops vary, some stops only having a sign on a post and others having shelters, benches, trash cans, and lighting. CARTA uses a weighted criteria to decide where to install amenities. The weighted factors include:

- + Passenger activity
- + Existing conditions
- + Zero-vehicle households and environmental justice area
- + Significant transfer point
- + Near medical facility, significant civil building or educational institution
- + Part of a corridor or neighborhood initiative to strengthen identity<sup>64</sup>

Currently, the most prominent stop location in the CARTA system is the “SuperStop” located at the intersection of Rivers Avenue and Cosgrove Avenue in North Charleston. This stop serves as a central stop for many CARTA routes in North Charleston, and waiting passengers can find restrooms and snacks for sale inside the building. An upgraded transit center is expected to open in 2024 at the site of Charleston County’s Social Services Hub. The location for the new transit hub is two blocks north of the existing SuperStop at the intersection of Rivers Avenue and McMillan Avenue.

The Social Services Hub will include a library; a South Carolina Department of Social Services office; a South Carolina Department of Health & Human Services office and clinics; a North Charleston Police Department substation; and Charleston County’s Department of Alcohol and Other Drug Abuse Services office.

In the fall of 2019, BCDCOG demonstrated a commitment to transit stop improvement by expanding transit staff to support the implementation of a bus stop improvement program. Below is an inventory of new bus stop amenities (excluding replaced amenities) that have been installed between 2016 and 2021:



- + 54 shelters
- + 31 benches
- + 14 digital signs
- + 9 bike racks
- + 4 new Park-&-Ride lots
- + 130 solar lights





# ACCESS TO DESTINATIONS

## Objective 2.4: Access to Destinations

Identify new opportunities to improve access to destinations that serve residents' daily needs for people with disabilities

### ● Strategy 2.4.1: Teleworking Jobs

Capitalize on recent employer acceptance of teleworking and flexible work hours to refocus the Lowcountry Go platform towards these activities and working with individual employers to recruit from transportation disadvantaged populations

### ● Strategy 2.4.2: New Employment Areas

Study the financial feasibility of new fixed-route, microtransit, or vanpool service to emerging employment hubs such as Palmetto Commerce Parkway

### ● Strategy 2.4.3: Vehicle Acquisition and Replacement

Enable transportation providers and human services agencies to capitalize on the availability of Section 5310 funding for procuring new vehicles and replacing aging vehicles

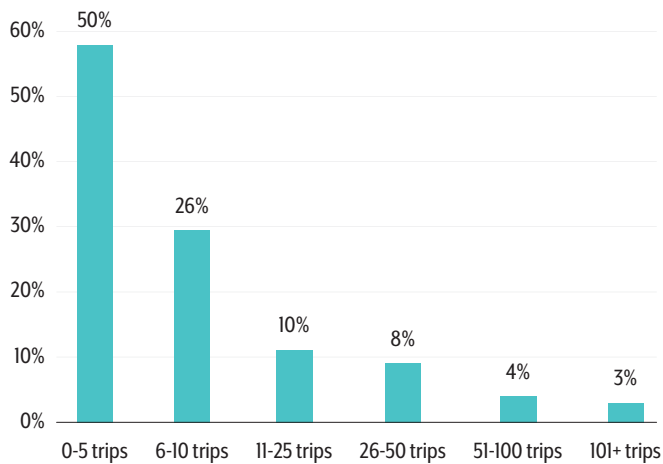
### ● Strategy 2.4.4: Purchase of Service

Encourage human services providers to consider purchased transportation service for transporting clientele including seniors and individuals with disabilities

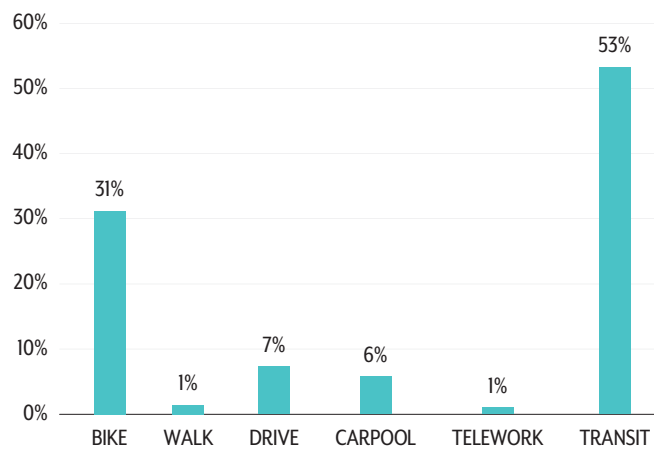
“  
Expanding route information,  
vehicle accessibility, and stop  
accessibility are not the only  
ways to help get people where  
they need to be.  
”







**FIGURE 15:** *Lowcountry Go Trips Logged per Active User (May 1, 2018 - May 31, 2021)*



**FIGURE 16:** *Lowcountry Go Mode of Logged Trips (May 1, 2018 - May 31, 2021)*

Figure 15 shows that 50% of users logged only between zero and five trips. Sustained entries into the system came from a small number of users and people associated with larger institutions that promoted the platform, such as the Medical University of South Carolina and the College of Charleston.

The ridematching feature of the Lowcountry Go platform was designed to identify opportunities to create or participate in a carpool. As shown in Figure 16, the majority (53%) of logged trips on Lowcountry Go were for transit, followed by bicycling (31%), and carpooling (6%). Among the users that did log carpool trips, 49% were for trips of 16 or more miles.

### Traditional Section 5310 Project Opportunities

The Section 5310 Program provides an excellent opportunity for transportation agencies and human services providers to improve access to critical needs destinations for seniors and individuals with disabilities. Two of the most common Section 5310 project types are vehicle acquisitions and purchases of service. Both of these project types are considered capital projects and are therefore eligible to receive 80% federal funding with a 20% local match. BCDCOG and SCDOT have facilitated awards to regional agencies for new vehicles, purchased transportation service, and even the hiring of a driver. All of these projects have demonstrated success in their missions of enhancing the mobility of seniors and individuals with disabilities.

### Rural Vanpools

BCDCOG completed the Rural Workforce Transit Study in 2020 to identify strategies for improving access to training and employment for underserved communities living in rural areas. Figure 17 shows the four transportation strategies evaluated during the study. Feedback from the study’s stakeholders indicated a preference for pursuing the carpool/vanpool strategy because of its relatively greater flexibility and reliability compared to the other strategies and its potential to solicit support from employers and to encourage a sense of community among rural workers. In 2021, BCDCOG purchased 11 vans that can be leased by an individual or an employer to coordinate vanpool groups. In 2019, BCDCOG hired a full-time vanpool coordinator to manage the program.



## Stakeholder Feedback

During one-on-one discussions, stakeholders commented that a lack of consistent transportation remained a barrier for people with disabilities to be able to maintain employment.

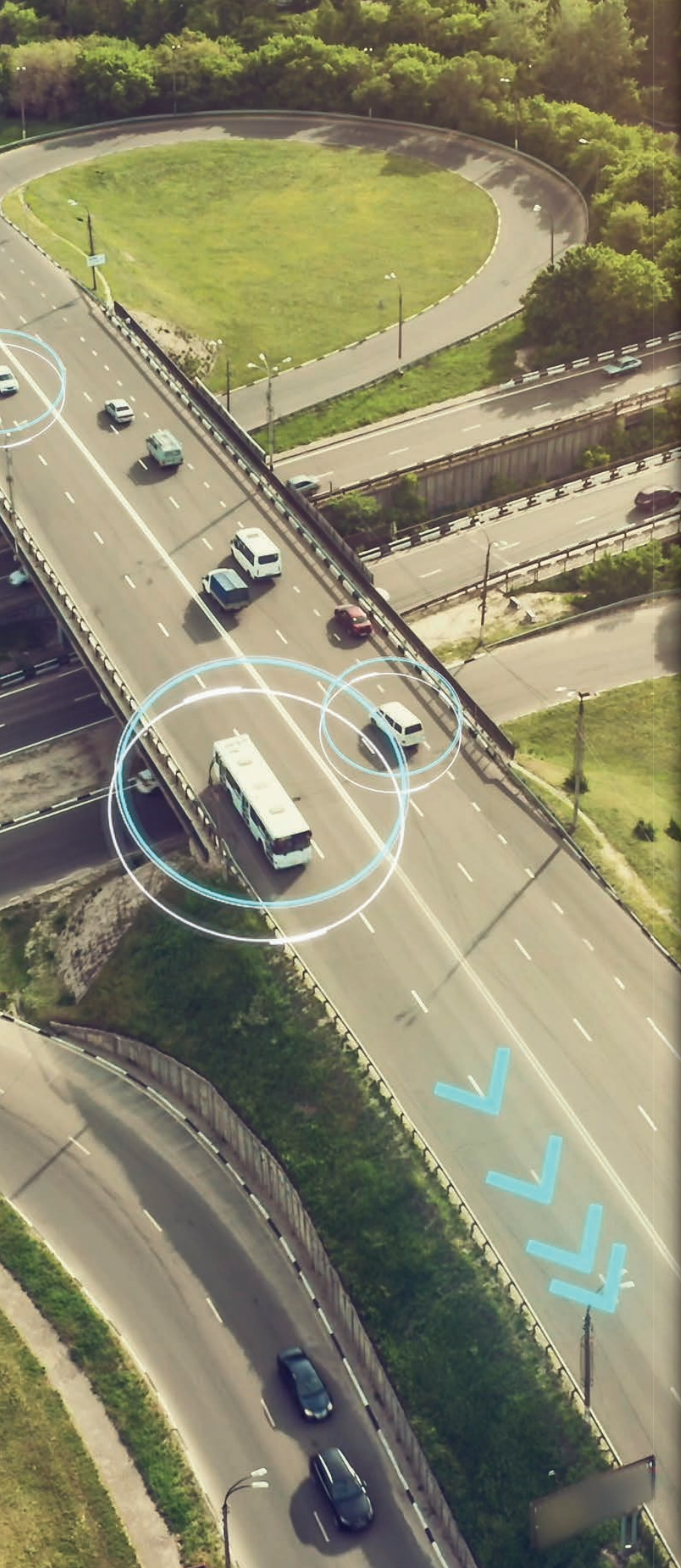
The ADA notes that permitting an employee with a disability to telework may be a reasonable accommodation<sup>70</sup>. In 2016, BCDCOG surveyed large employers located near I-526 and found that 37% of employers offered some form of teleworking for their employees. Among employers that did not already offer teleworking, 22% indicated it was a strategy that they would be open to considering<sup>71</sup>.

As the COVID-19 pandemic disrupted commuters' travel patterns, more and more employers and employees have gained first-hand experience with teleworking. According to the Bureau of Labor Statistics (BLS), approximately 13% of U.S. workers had some form of telework arrangement in 2017. Because of the COVID-19 pandemic, 33% of U.S. workers reported teleworking between May 2020 and June 2020, before declining to a still substantial 22% of the workforce by the end of 2020. Overall, BLS estimated that approximately 26% of jobs in the U.S. were suitable for teleworking, including 22% of jobs held by older adults<sup>72</sup>.

Additional surveying by the Pew Research Center of employed adults in October 2020 found that the percent of U.S. workers that were working from home jumped from 20% pre-pandemic to 71% during the pandemic. More than half of those that say they can do their job remotely, if given a choice, would prefer to continue to telework when the pandemic is over and that there has been no change in their productivity or job security. In addition, 38% of workers that picked up teleworking during the pandemic said that they found it easier to balance work and family because of teleworking. Even still, 65% of new teleworkers said that they feel less connected to their co-workers, but found that online tools were a good substitute for in-person contact<sup>73</sup>.

The COVID-19 pandemic has had a profound impact on the way employers nationwide view the viability of teleworking. However, people with disabilities are still less likely than people without disabilities to have worked remotely during the pandemic<sup>74</sup>. Being able to promote policies that help bridge this divide may go a long way in expanding employers' consideration of people with disabilities for open positions and for helping people with disabilities to overcome the transportation barrier for maintaining employment.

Another strategy highlighted by stakeholders to improve access to employment centers for low-income residents was to consider adding new bus routes into emerging employment centers, such as the Palmetto Commerce Parkway. One option for employees hoping to find lower-cost transportation to these emerging employment centers would be through vanpooling. BCDCOG's recent hire of a full-time vanpool coordinator allows dedicated staff time to recruiting and managing vanpools with employers or groups of workers.



Goal 3

## COORDINATION

### Goal Objective

*Create a venue for transportation providers and human service agencies to discuss needs, opportunities, and funding.*

### Section Navigation

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# INFORMATION SHARING

## Objective 3.1: Information Sharing

Seek opportunities for BCDCOG and human service providers to stay up-to-date on existing services and best practices for providing mobility options for older adults and people with disabilities and share these back with interested parties

### ● Strategy 3.1.1: Aging & Health Practice

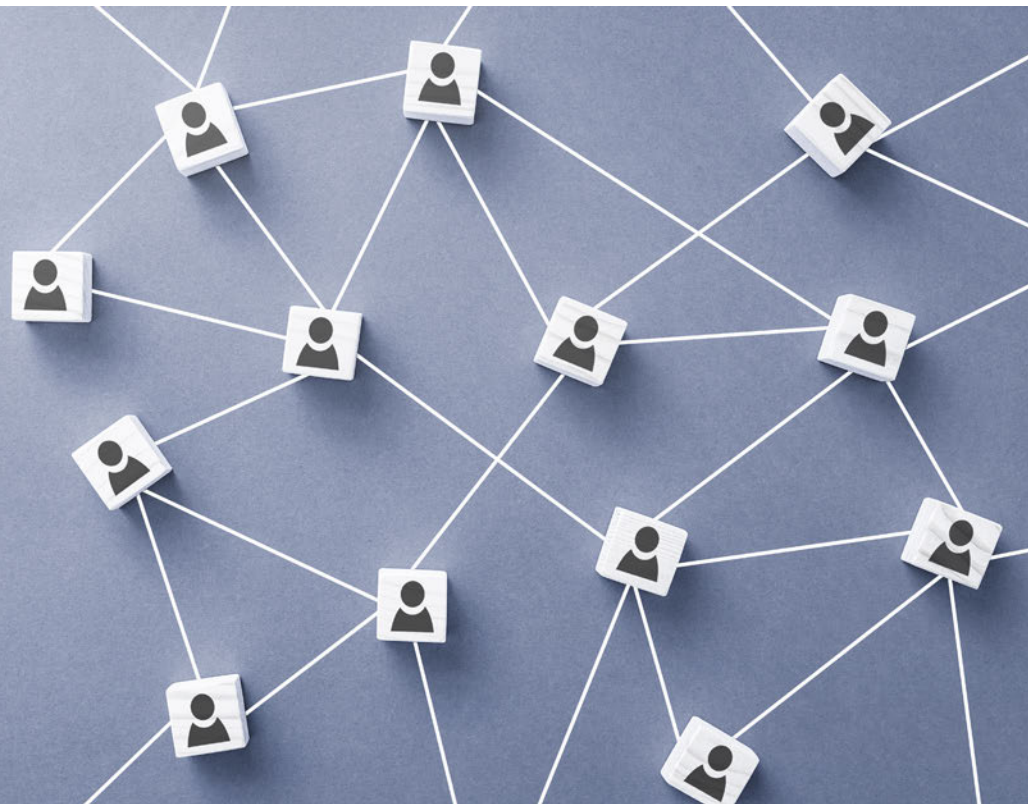
Develop a formal “aging and health” webpage on BCDCOG’s website to share links to human service provider services, such as transportation, housing, and caregiving, as well as to promote “lifelong communities” for older adults and people with disabilities within routine planning, projects, and programs

### ● Strategy 3.1.2: Regular Service Updates

BCDCOG’s mobility manager to regularly attend Lowcountry Senior Network meetings to share knowledge about the range of transportation options available to older adults based on need, trip type, and location, as well as changes in services such as new or expanded pilot programs, real-time bus arrival text alerts, and Transit App’s features that can be promoted through care providers

### ● Strategy 3.1.3: Orientation & Mobility Training

Identify opportunities for BCDCOG and human service providers to promote existing Orientation and Mobility (O&M) training to teach safe travel skills to people interested in independent transit ridership but potentially hesitant due to a visual impairment





**FIGURE 19:** Human Services Providers (Continued)

**SENIOR CENTERS**

- Awendaw Senior Center
- Charleston Area Senior Citizens Center
- City of Goose Creek’s Senior Adult Programs
- David Sojourner Senior Center
- Edisto Island Senior Center
- Faith Sellers Senior Center
- Hanahan Senior Center
- Liberty Hill Senior Center
- Live Oak Senior Center
- Moncks Corner Senior Center
- Mount Pleasant Senior Center
- North Charleston Senior Center at Dorchester Road
- North Charleston Senior Center at Northwoods
- Roper St. Francis Lowcountry Senior Center
- Roper St. Francis Waring Senior Center
- South Berkeley Senior Centers
- South Santee Community Center
- St. Stephen Senior Center
- Thomasina Stokes Marshall Senior Center
- Wadmalaw Island Senior Center

**GROUPS FOCUSED ON A BROAD-RANGE OF ISSUES**

- Charleston Area Justice Ministry (CAJM)
- East Cooper Community Outreach (ECCO)
- Trident United Way

**ADULT DAY CARE CENTERS**

- Active Day of Charleston
- Active Day of the Lowcountry
- Adult Day Care 41
- Aging Gracefully Senior Care Services, LLC
- Alice’s Clubhouse Memory Care Day Center
- East Cooper Senior Day Care
- Graceful Embrace
- Sea Island Adult Day Care



Tracking available services can be a large task that requires continuous coordination. Two existing groups that routinely compile lists of available services are All About Seniors and the Trident Area Agency on Aging (TAAA). *All About Seniors’ Resource & Referral Directory of Greater Charleston, SC* is available online and by mail. TAAA’s *Aging and Disability Resource Directory* is available online. Both track a full-range of resources available to older adults and people with disabilities, including “Orientation & Mobility” training that provides blind and visually impaired individuals with specialized instruction that includes crossing streets, using white canes, and accessing public transportation.

**Stakeholder Feedback**

During one-on-one discussions, stakeholders highlighted their appreciation for BCDCOG’s past efforts to provide service updates at the Lowcountry Senior Network and requested continued updates through this venue. Some stakeholders weren’t aware of ongoing BCDCOG, CARTA, and TriCounty Link transportation services, and continued service updates through existing groups or through a more targeted web presence may help to communicate changes in services and new services.



## Objective 3.2: Sustained Collaboration

Develop a sustainable structure for BCDCOG, CARTA, and TriCounty Link to continue gathering feedback from human service providers and members of the public, as well as facilitating conversations among related groups

### ● Strategy 3.2.1: Reset Coordination Group

Reconstitute the former “Human Service Transportation Coordination Partner” group for semi-annual or annual meetings and broadly recruit participation from public transit staff, private transportation providers, public human service agencies, advocacy groups, and community members that represent older adults and people with disabilities

### ● Strategy 3.2.2: Expand Rural Representation

Actively solicit greater rural representation on existing public transit-related advisory boards such as the Transit Rider Advisory Committees (TRACs) or create a separate, similar rural committee to better understand changing rural transportation needs and to create additional opportunities for promoting available TriCounty Link services

### ● Strategy 3.2.3: Curriculum Collaboration

Designate a sub-group of volunteers within the Human Service Transportation Coordination Group to join Transdev and BCDCOG in a series of collaborative learning sessions to share training materials and identify opportunities to update new operator training curriculum within the context of Transdev’s and TriCounty Link’s standard operating procedures for interacting with people with disabilities

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Based on recommendations of the 2015 version of this Plan, BCDCOG created two separate opportunities for sustained collaboration around implementation of the Plan’s full set of strategies.

## Human Service Transportation Coordination Partners

The first venue for collaboration was the “Human Service Transportation Coordination Partners” meetings that were held regularly between 2015 and 2019. The group was composed of representatives from public transit agencies, non- and for-profit transportation providers, and human service providers with the following two primary objectives:

Updating, maintaining, and determining how best to implement the 2015 version of this Plan

Providing a venue for stakeholder interaction, sharing of human services transportation issues, and developing solutions for further action

Although this group provided a valuable forum for sharing information across agencies, attendance at the meetings declined over time. This may be a result of the target from the 2015 Plan to conduct monthly or quarterly meetings.

## TRACs

The second venue for collaboration that was developed from the 2015 Plan was the creation of two Transit Rider Advisory Committees, one for CARTA fixed-route services (TRAC) and one for CARTA Tel-A-Ride (paraTRAC). These committees were started in 2017, and their primary roles are promoting public transit ridership in the urban areas of the tri-county region and serving as a passenger-led forum for soliciting feedback.

While these two committees help promote transit within the urban area, no such committee exists for rural transit riders. Community survey respondents from Berkeley County (28%) were more likely than other respondents to say that travel was unaffordable, and some stakeholders during one-on-one discussions highlighted a need for more rural representation on committees.

## Operator Training

Transdev, the day-to-day operator of CARTA’s fixed-route and Tel-A-Ride services, tries to incorporate public feedback into their training procedures. As part of its two-week standard operating procedures for new driver training, Transdev dedicates one day specifically to customer service, conflict management, and interacting with people with disabilities. The ADA-related hands-on training covers the technical operations of using lifts, ramps, and securing wheelchair-bound passengers.

It also covers basic rules for interactions with people with disabilities organized into “Ten Commandments” and sensitivity training to understand the full range of disabilities that people experience, practicing common interactive scenarios, and experience-based training<sup>75</sup>. In addition to new driver training, Transdev provides regular refreshers for existing drivers to reinforce policies and hot-topic issues.

Although Transdev provides as comprehensive a sensitivity training as one day will allow, there may be additional opportunities to learn from human service providers in the region to modify the training curriculum or to provide supplementary material. During one-on-one discussions with stakeholders, many offered to participate in an update to the training curriculum for transit drivers.





## Objective 3.3: Institutional Outreach

Identify opportunities to work with larger institutions on documenting mobility needs for older adults and people with disabilities

### ● Strategy 3.3.1: Intracampus Transportation

Create an outreach campaign to higher education institutions (i.e. Charleston Southern University, College of Charleston, MUSC, Trident Technical College and affiliated campuses) to document transportation issues for people with disabilities while on their campuses and encourage their participation within the Human Services Transportation Coordination Group

### ● Strategy 3.3.2: Emergency Preparedness

Review existing emergency evacuation procedures to ensure the needs of older adults and people with disabilities are explicitly identified and coordinate with existing emergency managers at the South Carolina Emergency Management Division, South Carolina Department of Transportation, and South Carolina Highway Patrol's Emergency Traffic Management Unit to share procedures with potentially impacted populations

---

In addition to collaborating with smaller human service providers, an opportunity exists to support larger institutions in managing the mobility needs of older adults, people with disabilities, and low-income residents.

## Stakeholder Feedback

During one-on-one discussions with stakeholders, some noted an overlapping need on educational campuses and suggested that coordinated meetings to discuss shared issues and potential solutions may be beneficial. In addition, one stakeholder highlighted the need to ensure an adequate level of transportation for older adults and people with disabilities during emergency evacuations out of the tri-county area.



Goal 4

**PARTNERSHIPS**

Goal Objective

*Forge agreements for expanding services, reducing costs, or fostering resiliency through shared transportation responsibilities.*

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# SECTION 5310 FUNDING

## Objective 4.1: Section 5310 Funding

Receive urban Section 5310 funding applications from a broader range of public agencies, human service organizations, and private transportation providers, as well as for a more diverse range of proposed activities compared to 2015-2021 applications.

- **Strategy 4.1.1: 5310 One-pager**

Attempt to expand the applicant pool for urban Section 5310 program funding by creating a graphically-engaging overview of the program, applicant eligibility criteria, eligible activities, sample past projects and potential projects, anticipated dates for the annual call for applications, and reporting requirements that can be shared with a broad audience multiple times per year to encourage advance preparation in developing an application

- **Strategy 4.1.2: Simplify 5310 Forms**

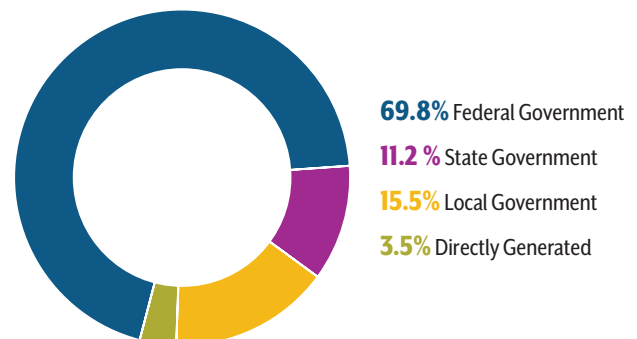
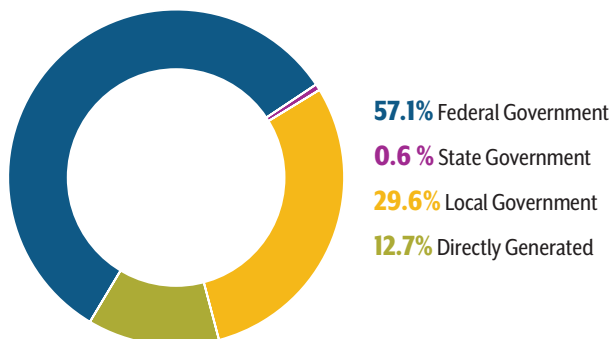
Explore development of an urban Section 5310 program funding application and reporting form using an interactive format (PDF or Google form) that removes redundant or irrelevant questions by creating a custom set of follow-up questions based on how the recipient's responses to a set of initial questions

- **Strategy 4.1.3: Promote 5310**

Bring awareness to the availability of urban Section 5310 program funding among human service providers and actively promote the program at the Transportation Coordination Partner group meetings, at Lowcountry Senior Network meetings, on social media, and through direct relationship building with human service organizations in advance of the call for applications window

Large-scale changes like adding new routes, increasing the number of buses operating on existing routes, and expanded hours of operation are dependent on limited, available funding. As shown in **Figure 20**, funding for CARTA in 2020 came from a combination of the Federal government (57%), State government (1%), local government sales tax (30%), revenue generated from passengers' fares (11%), and advertising (2%).

Similarly, **Figure 21** shows that funding for TriCounty Link in 2020 came from a combination of the federal government (70%), state government (11%), local government (16%), and revenue generated from passengers' fares (4%).



**FIGURE 20:** CARTA Funding Sources (2020)<sup>76</sup>

**FIGURE 21:** TriCounty Link Funding Sources (2020)<sup>77</sup>





**FIGURE 22:** *Urban Section 5310 Applicants (2017-2021)*

YEAR(S)	APPLICANT	PROJECT NAME	DESCRIPTION
2017 - 2021	BCDCOG	BCD Mobility Management Program	Regional commuter services program dedicated to implementing Travel Demand Management strategies
2017 - 2019	Berkeley Citizens, Inc.	Berkeley Citizens Urban Transportation	Purchase of Transportation service from contractor TriCounty Link for providing transportation to clients living in urban areas of the BCD region
2018	CARTA	Demand-Response Pilot Project	Contracting with TNC providers to offer demand-response service to seniors and people with disabilities within the CARTA service area
2017 & 2021	CARTA	Paratransit Vehicle Replacement	Purchase of vehicles to replace Tel-a-Ride vehicles that reached their useful life
2018 & 2021	Charleston Dorchester Mental Health Center	CDMHC Patient Transportation Services	Funding for a full time driver position to transport clients in the urban area
2018	Senior Ride Charleston	Enhanced Mobility for Underserved Seniors & Individuals with Disabilities	Subsidized ride program for seniors and people with disabilities through Charleston Green Taxi
2019	Pattison's Academy for Comprehensive Education	Enhanced Mobility for Children with Multiple Disabilities	Purchase of a vehicle to directly operate transportation service for clients in the urban area (award was forfeited due to impacts of COVID-19 pandemic)
2020	CARTA	Paratransit operations and paratransit vehicle maintenance	Funding for the operations of Tel-a-Ride services as well as preventative maintenance services for Tel-a-Ride vehicles

# RIDESHARE PARTNERSHIP



## Objective 4.2: Rideshare Partnership

Fill the gap created by discontinued coordinated rideshare programs

- **Strategy 4.2.1: Rideshare Sub-group**

Designate a task force within the Human Service Transportation Coordination Group to map existing church rideshare services and engage church members interested in expanding services beyond their congregation on a limited or ongoing basis

- **Strategy 4.2.2: Private Providers**

Build off lists of available non-emergency medical transportation providers published by All About Seniors and Trident Area Agency on Aging to create an easy-to-maintain, shared list of providers sorted by geographic coverage, cost, services (such as “door-to-door” or “door-through-door” assistance), and vehicle accessibility features

- **Strategy 4.2.3: Rotation List**

Work with the Coordination Group to explore the creation of a formal rotating referral list of qualified private transportation providers

- **Strategy 4.2.4: Liability Insurance**

Work with the Coordination Group to explore opportunities for shared financing for driver liability insurance from private, nonprofit, and public institutions to support an economically-sustainable primarily volunteer-based rideshare program



In addition to public transit, human service providers and private transportation companies play a large role in providing transportation for older adults and people with disabilities in the tri-county region. Examples of human service providers that supplement public transit with transportation services in the tri-county region include:

- + Berkeley Citizens, Inc. operates vehicles and contracts with TriCounty Links for services for Berkeley County residents with disabilities working at their center
- + The Disabilities Boards for Charleston and Dorchester counties operate transportation services to and from care facilities and provide vehicles to respite homes throughout the region
- + Sea Island Comprehensive Health Care Corporation provides transportation on Johns Island
- + The South Carolina Department of Health & Human Services contracts out Emergency Medical Transportation in the Charleston area, including Medicaid transportation
- + The South Carolina Head Start operates vehicles on Edisto and Kiawah Islands for children of migrant families
- + Charleston Area Senior Citizens lease state-owned vans for “Meals on Wheels” deliveries, they regularly transport older adults in Charleston, North Charleston, and Mt. Pleasant, and occasionally provide CARTA passes to people that are homeless for travel to medical appointments.
- + Beyond Basic has one donated vehicle, and its staff largely uses personal vehicles to help transport clients.
- + The Trident Area Agency on Aging received a limited amount of funding to provide short-term transportation for older adults receiving life-saving treatments, as well as limited funding for specialty transportation to medical facilities.

### Non-Emergency Medical Transportation Brokerage

Modivcare, formerly known as LogistiCare, is a publicly-traded company that coordinates non-emergency transportation, meal delivery, and personal care attendants for its members across the country. Modivcare’s “WellRyde” – in addition to other similar transportation brokerages - operates as a non-emergency transportation broker service. Their service brings together a network of subcontracted private transportation providers and provides dispatching, automated reminders, live vehicle tracking, and automated billing similar to a TNC such as Uber or Lyft.

### Private Non-Emergency Medical Transportation Providers

Figure 23 includes a list of known private transportation companies offering services for older adults and people with disabilities in the tri-county region.

**FIGURE 23:** *Private Transportation Companies*

PRIVATE PROVIDER	COVERAGE	VEHICLE ACCESSIBILITY	SERVICES	COST
A Golden Ride Personal Senior Transportation	Entire region	Ambulatory <sup>79</sup>	Door-through-door Accompaniment	\$39/hr (1-hr min.) + \$19.50 for each additional half-hour Reservations only (at least 48 hours advance notice) Includes 1 caregiver
A Nurse Next Door Senior Care Services	Entire region+	Ambulatory	Door-to-door	\$1 per mile



PRIVATE PROVIDER	COVERAGE	VEHICLE ACCESSIBILITY	SERVICES	COST
Let's Go Transportation	Entire region+	Ambulatory Wheelchair (bariatric) Stretcher	Door-through-door (limited)	Within a 10-mile radius \$200-250 wheelchair \$100-125 ambulatory Additional fees for extended distances or to accommodate client needs
Lyft	Entire region (service may be limited rural areas)	Ambulatory	Curb-to-curb	Variable (surge pricing)
Mantis Transport of SC	Entire region Mostly Berkeley County and Charleston County	Wheelchair (bariatric)	Curb-to-curb and Door-to-door	"Prices vary for every independent contractor" Charge by every 3 miles around \$13 for ambulatory and around \$20 for wheelchair
McKnight & Rosenthal	Temporary not operating due to COVID pandemic			
MedTrust Medical Transport, LLC	Entire region+	Wheelchair (bariatric) Stretcher	Door-to-door (no private residences except hospices) Evacuation support	Contract with facilities + per-mile costs
Meduport	Entire region+	Wheelchair (bariatric) and Stretcher	Curb-to-curb and door-to-door	Subcontract through Modivcare and do Medicaid trips
Personal Care Ambulance	Entire region+	Wheelchair (bariatric*) + Stretcher	Door-through-door (limited to private residences) Evacuation support	\$70 base (one-way) + \$2/mile



## Stakeholder Feedback

An example of a non-profit filling a large gap in the tri-county region was Senior Ride Charleston (known in a previous iteration as the Independent Transportation Network). The group was operated by a staff of three people and supported by a network of volunteer drivers that would provide transportation for older adults and adults with visual impairments. The program was popular while it was active, and during one-on-one discussions with stakeholders, many noted the gap created by Senior Ride Charleston's discontinuation of services and the financial challenges in operating non-emergency medical transportation.

By seeking alternative funding sources or partnering with organizations that serve older adults and people with disabilities, non-profits, human service providers, and private transportation companies may be able to leverage existing resources to offer low- or no-cost trips for transportation disadvantaged populations.





## Objective 4.3: Transit Matching Funds

Identify opportunities to partner with municipalities to expand the range of transit opportunities that are available to people of all ages and abilities

### ● Strategy 4.3.1: Shuttle Partnerships

Partner with local municipalities to explore the financial feasibility of operating public transit shuttles in commercial districts outside of the Charleston peninsula

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As noted in the “Section 5310 Funding” discussion on [page xx](#), the bulk of public transit funding in the tri-county region comes from the federal government - specifically FTA formula and discretionary apportionments. When local governments and public or private agencies provide additional contributions to the transit system, it can create opportunities that would not be possible otherwise. CARTA in particular has experienced great success with programs that were made possible through local contributions.

### DASH Shuttles

CARTA's Downtown Area Shuttle (DASH) system, shown in [Figure 24](#), is an excellent example of the impact that local transit contributions can have on the community. The system enables local residents, students, and tourists to get around the downtown area conveniently and affordably. DASH, in part, became free to ride in 2010 through contributions from the City of Charleston, the Charleston Area Convention & Visitors Bureau, and the South Carolina Ports Authority. There are currently three DASH routes which provide access to downtown Charleston's most visited destinations:

- + 210 - College of Charleston/Aquarium
- + 211 - Meeting Street/King Street
- + 213 - Lockwood Drive/Calhoun Street

### MUSC Shuttles

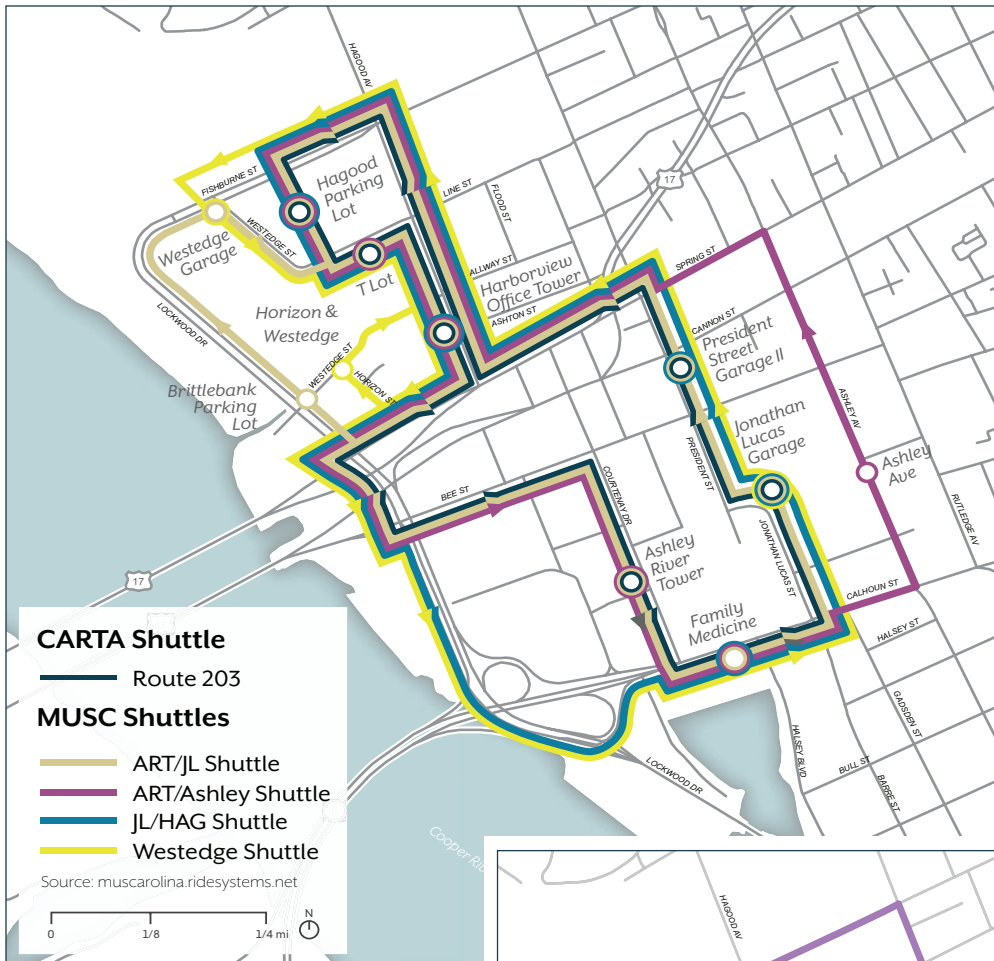
The Medical University of South Carolina (MUSC) operates six shuttles to and from parking and the downtown Charleston medical district, as shown in [Figure 25](#)<sup>80</sup>. The current MUSC shuttles overlap with CARTA Route 203.

- + Jonathan Lucas/ Ashley River Tower (ART)
- + Jonathan Lucas/ Hagood (AM)
- + Jonathan Lucas/ Hagood (PM)
- + Ashley River Tower (ART)/ Ashley (AM)
- + Ashley River Tower (ART)/ Ashley (PM)
- + WestEdge Shuttle

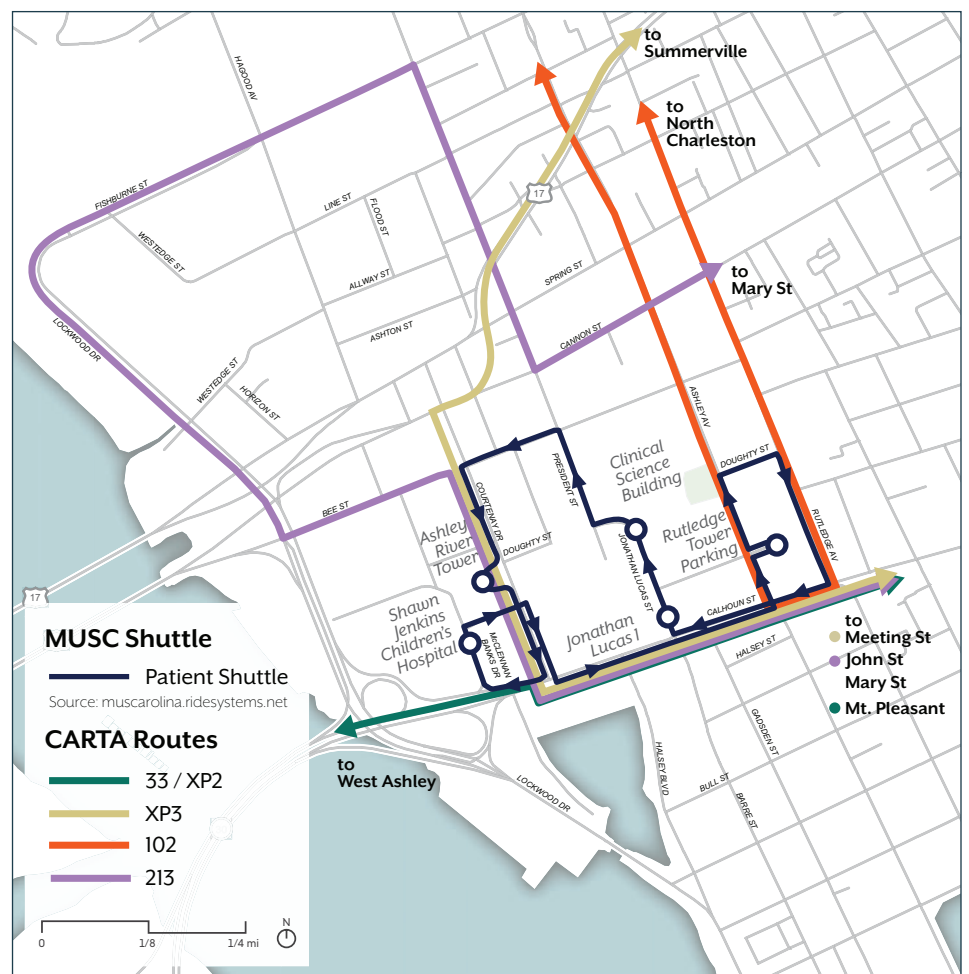
In addition to the parking lot shuttles, MUSC operates a Patient Shuttle to help patients travel within the downtown Medical District. As shown in [Figure 26](#), the Patient Shuttle overlaps several existing CARTA routes.

FIGURE 24: Existing DASH Routes





**FIGURE 25:** Existing MUSC Shuttle Routes to Parking



**FIGURE 26:** Existing MUSC Shuttle Route for Patients







Section Title

# PRIORITIES



# PRIORITIES

Developing a prioritized list of the objectives and strategies resulting from the Plan's unmet needs analysis is essential for making progress towards implementation over the next five years. The prioritization process incorporated stakeholder feedback as well as knowledge of available resources, associated costs, and implementation feasibility.

## Method

To prioritize the list of potential strategies, BCDCOG used four evaluation criteria and scored the proposed strategies out of a total of 100 points.

### *Stakeholder Feedback*

Stakeholders completed an online pairwise exercise to identify the relative importance that they individually placed on each of the four goal areas. Based on the results of this exercise, the goal areas were assigned the following weights.

- › Administration: 8/25 points
- › Accessibility: 25/25 points
- › Coordination: 8/25 points
- › Partnerships: 9/25 points

### *Feasibility*

BCDCOG staff internally scored the feasibility of each strategy in terms of overall cost and ease of implementation. Based on these internal discussions, each project was assigned one of the following weights.

- › Low feasibility: 8/25 points
- › Moderate feasibility: 17/25 points
- › High feasibility: 25/25 points

### *Geographic Equity*

BCDCOG staff internally scored the potential of each strategy to impact a broad geographic area. Based on these internal discussions, each project was assigned one of the following weights.

- › Urban only: 8/25 points
- › Rural only: 17/25 points
- › Urban and rural: 25/25 points

### *Impact on Transportation Disadvantaged Populations*

BCDCOG staff internally scored the potential of each strategy to directly benefit older adults and people with disabilities. Based on these internal discussions, each project was assigned one of the following weights.

- › Benefit to general public: 8/25 points
- › Direct benefit to one disadvantaged group: 17/25 points
- › Direct benefit to both disadvantaged groups: 25/25 points





FIGURE 27: Prioritized Objectives

OBJECTIVE	STRATEGY	PRIORITIZATION CRITERIA						STRATEGY		OBJECTIVE	
		Stakeholder Feedback	Feasibility	Geographic Equity	Disadvantaged Populations	Individual Score	Rank	Individual Score	Rank	Average Score	Rank
1.1: CARTA Tel-A-Ride	1.1.1: Tel-A-Ride Application	8	25	8	17	58	31st	53	13th		
	1.1.2: Tel-A-Ride Processing	8	25	8	17	58	31st				
	1.1.3: Tel-A-Ride Boundary	8	8	8	17	41	40th				
	1.1.4: Ride Pooling System	8	17	8	17	50	36th				
	1.1.5: Origin-to-Destination Service	8	25	8	17	58	31st				
1.2: Demand-responsive Service	1.2.1: Marketing Campaign	8	25	8	25	66	26th	66	11th		
	1.2.2: Expand Destination List	8	25	8	25	66	26th				
	1.2.3: Monitor Usage	8	25	8	25	66	26th				
1.3: Fares & Passes	1.3.1: Senior Free Ride Days	8	17	8	17	50	36st	46	14th		
	1.3.2: Multi-trip Fare Passes	8	17	8	8	41	40th				











Section Title

# IMPLEMENTATION



**FIGURE 29:** Performance Monitoring (2.3: Stop Accessibility)

STOP ACCESSIBILITY STRATEGIES (RESPONSIBLE PARTIES)	PERFORMANCE MEASURES	PERFORMANCE TARGETS					
		2022	2023	2024	2025	2026	2027
2.3.1 Design Guidelines (BCDCOG)	Amend Transit & Bus Stop Design Guidelines to include pedestrian connectivity, bicycle parking demand, and stop placement cues for low-vision and blind bus riders	Review pedestrian connectivity to bus stop best practices as part of scheduled update to regional micromobility plan, including establishing preferences for pedestrian clear zones and buffer zones and a process for assessing demand for bicycle parking at transit and bus stops	Adopt new appendix to Transit & Bus Stop Design Guidelines with transit-related recommendations from regional micromobility plan	Review best practices for stop placement cues for low-vision and blind bus riders	Adopt new appendix to Transit & Bus Stop Design Guidelines with stop placement standards for low-vision and blind bus riders	-	-





STOP ACCESSIBILITY STRATEGIES (RESPONSIBLE PARTIES)	PERFORMANCE MEASURES	PERFORMANCE TARGETS					
		2022	2023	2024	2025	2026	2027
2.3.2: Shelter Installation (BCDCOG + municipalities)	Create and maintain bus stop amenity database	Create bus stop amenity database (and revise baselines if needed)	Maintain bus stop amenity database	Maintain bus stop amenity database	Maintain bus stop amenity database	Maintain bus stop amenity database	Maintain bus stop amenity database
	Number of new shelters installed per year	4	4	4	4	4	4
	Number of new digital message signs installed per year	12	12	12	12	12	12
	Percent of shelters with benches	10% (baseline)	12%	14%	16%	18%	20%
	Percent of shelters with bike racks	5%	7%	9%	11%	13%	15%
	Percent of stops meeting revised pedestrian connectivity standard	-	Establish baseline	Base target off of 2023 baseline	Base target off of 2023 baseline	Base target off of 2023 baseline	Base target off of 2023 baseline
	Percent of newly-installed bus stop poles meeting standard	-	-	-	Establish baseline	Base target off of 2025 baseline	Base target off of 2025 baseline



**FIGURE 31:** Performance Monitoring (2.1: Route Information)

ROUTE INFORMATION STRATEGIES (RESPONSIBLE PARTIES)	PERFORMANCE MEASURES	PERFORMANCE TARGETS					
		2022	2023	2024	2025	2026	2027
2.1.1: In-vehicle Arrival Information (CARTA, TriCounty Link)	Percent of new CARTA and TriCounty Link fleet vehicles with audio and visual cues of upcoming bus stops/stations	50%	100%	100%	100%	100%	100%
2.1.2: Accessible Brochures (BCDCOG, CARTA, TriCounty Link)	Percent of newly-printed brochures that incorporate universal design best practices	100%	100%	100%	100%	100%	100%
2.1.3: Transit Ambassador Program (CARTA, TriCounty Link)	Number of CARTA Transit Ambassadors	4	5	5	5	5	5
	Replicate CARTA program for TriCounty Link						
2.1.4: Web Mapping (TriCounty Link)	Develop MyTCLink desktop companion		Wireframe	Implement		Maintain	
	Identify funding						
2.1.5: Real-time Bus Information (CARTA)	Number of new digital message signs installed per year	12	12	12	12	12	12



**FIGURE 33:** Performance Monitoring (3.2: Sustained Collaboration)

SUSTAINED COLLABORATION STRATEGIES (RESPONSIBLE PARTIES)	PERFORMANCE MEASURES	PERFORMANCE TARGETS					
		2022	2023	2024	2025	2026	2027
3.2.1: Reset Coordination Group (BCDCOG, Human Service Providers)	Minimum number of Human Service Transportation Coordination Group meetings	1	1	1	1	1	1
3.2.2: Expand Rural Representation (BCDCOG, TriCounty Link)	Percent of rural representatives on TRAC	Establish separate rural TRAC	Grow rural TRAC membership	Integrate rural TRAC with existing TRACs	10%	10%	10%
3.2.3: Curriculum Collaboration (CARTA, TriCounty Link)	Training Manual Update	Update	-	-	Update	-	-





**FIGURE 37:** Performance Monitoring (2.4: Access to Destinations)

ACCESS TO DESTINATIONS STRATEGIES (RESPONSIBLE PARTIES)	PERFORMANCE MEASURES	PERFORMANCE TARGETS					
		2022	2023	2024	2025	2026	2027
2.4.1: Teleworking Jobs (N/A)	Percent of workers 16+ working from home	5.8% (ACS, 2015-2019)	6.5%	6.8%	7.0%	7.3%	7.5%
2.4.2: New Employment Areas (N/A)	Percent of workers 16+ riding transit in emerging employment centers	Establish baseline	System-wide transit commute mode share	System-wide transit commute mode share	System-wide transit commute mode share	System-wide transit commute mode share	System-wide transit commute mode share



## CONTEXT ENDNOTES

- 1 In this Plan, public transit is defined as any regular, continuing shared-ride surface transportation service that is open to the general public or open to a segment of the general public defined by age, disability, or income.
- 2 Human service nonprofits are the organizations that most people think of when they hear the word nonprofit. Among many other roles, they feed the hungry, assist crime victims and offenders, provide job training, house the homeless, help prepare for and recover from disasters, maintain recreation facilities, and act as advocates for children. Human services can also include providing transportation to meet the basic, day-to-day mobility needs of transportation-disadvantaged populations.
- 3 Shrestha, B.P., Millonig, A., Hounsell, N.B., and M. McDonald. Review of Public Transport Needs of Older People in European Context. *Journal of Population Aging*. 2017; 10(4): 343-361. <<https://dx.doi.org/10.1007%2Fs12062-016-9168-9>>
- 4 Dickerson, A.E., Molnar, L.J., Adler, G., Bédard, M., Berg-Weger, M., Classen, S., Foley, D., Horowitz, A., Kerschner, H., Page, O., Silverstein, N.M., Staplin, L., and L. Trujillo. Transportation and Aging: A Research Agenda for Advancing Safe Mobility. *The Gerontologist*. 2007; 47(5): 578-590. <<https://doi.org/10.1093/geront/47.5.578>>
- 5 Javalagi, R., Thomas, E., and S.R. Rao. Consumer Behavior in the U.S. Pleasure Travel Marketplace: An Analysis of Senior and Nonsenior Travelers. *Journal of Travel Research*. 1992; 31(2): 14-19. <<https://www.semanticscholar.org/paper/Consumer-Behavior-in-the-U.S.-Pleasure-Travel-An-of-Javalgi-Thomas/832dd3862e7d3ccb4b34cfca2f3a02e6d129bb41>>
- 6 Sikder, S. An Analysis of Travel Patterns and Preferences of the Elderly. Graduate Theses and Dissertations. University of South Florida. 2010. <<https://digitalcommons.usf.edu/cgi/viewcontent.cgi?article=4664&context=etd>>
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- 8 American Community Survey, U.S. Census Bureau. Table ID: S1810. 2012-2019. Five-year Estimates.
- 9 South Carolina Revenue and Fiscal Affairs Office. “South Carolina population estimates from 2000-2018 and population projections from 2019-2035: Four broad age groups”. <<https://rfa.sc.gov/data-research/population-demographics/census-state-data-center/population-estimates-projections>>
- 10 R”Landmark Disability Survey Finds Pervasive Disadvantages” Mobility Lab. June 25, 2004. <<https://mobilitylab.org/wp-content/uploads/2017/07/NationalOrganizationonDisabilityHarrisSurvey.htm>>
- 11 U.S. Census Bureau, American Community Survey. “Disability Status”. <<https://www.census.gov/quickfacts/fact/note/US/DIS010219>>
- 12 American Community Survey, U.S. Census Bureau. Table ID: S1810. 2012-2019. Five-year Estimates.
- 13 American Community Survey, U.S. Census Bureau. Table ID: B18108. 2019. One-year Estimates.
- 14 American Community Survey, U.S. Census Bureau. Table ID: S1810. 2019. Five-year Estimates.
- 15 Office of the Assistant Secretary for Planning and Evaluation. 2019 Poverty Guidelines. <<https://aspe.hhs.gov/topics/poverty-economic-mobility/poverty-guidelines/prior-hhs-poverty-guidelines-federal-register-references/2019-poverty-guidelines>>
- 16 American Community Survey, U.S. Census Bureau. Table ID: C18130. 2019. Five-year Estimates.
- 17 No such disparity between age and poverty status was present for our region according to five-year estimates from American Community Survey.
- 18 Steven Manson, Jonathan Schroeder, David Van Riper, Tracy Kugler, and Steven Ruggles. IPUMS National Historical Geographic Information System: Version 16.0 [dataset]. Minneapolis, MN: IPUMS. 2021. <http://doi.org/10.18128/D050.V16.0> Table ID: B18101. American Community Survey, U.S. Census Bureau. 2015-2019. Five-year Estimates.
- 19 American Community Survey, U.S. Census Bureau. Table ID: S1701. 2015-2019. Five-year Estimates. <<https://data.census.gov/cedsci/e?t=Poverty&g=05000000US45015,45019,45035&y=2019&tid=ACSST5Y2019.S1701>>
- 20 The Center for Neighborhood Technology, Brookings Institution. <[https://htaindex.cnt.org/about/HTMethods\\_2016.pdf](https://htaindex.cnt.org/about/HTMethods_2016.pdf)>



- 35 Metro Long-range Transportation Plan. CHATS. 2019. <<https://www.bcdco.org/transportation/planning/long-range-transportation-plan/>>
- 36 More precisely, the equity analysis was first completed in our region's micromobility plan, Walk Bike BCD (2016), and then incorporated into the metro long-range transportation plan.
- 37 Statewide Multimodal Transportation Plan. SCDOT. 2020. <<https://www.scdot.org/multimodal/>>
- 38 Lowcountry Go. BCDCOG. <<https://www.lowcountrygo.com/>>
- 39 Lowcountry Go, LowGoTober. BCDCOG. <<https://www.lowcountrygo.com/lowgotober>>
- 40 I-26 Corridor Management Plan. SCDOT. 2021. <<https://www.scdot.org/projects/i26-corridor.aspx>>
- 41 The second most desired destinations indicated by community survey respondents was grocery stores/restaurants, only trailing healthcare facilities/pharmacies. Older adults were more likely to list grocery stores/restaurants as one of their top three desired destinations compared to people with disabilities and low-income respondents.

## ADMINISTRATION ENDNOTES

- 42 To learn more about CARTA's full range of services, visit: <https://www.ridecarta.com/services/>
- 43 Tel-A-Ride trip hours: Monday to Friday - 5:15 AM to 1:00 AM / Saturday - 6:00 AM to 12:00 AM / Sunday - 7:00 AM to 9:00 PM
- 44 Although there are no existing routes serving Sullivan's Island and Isle of Palms, parts of these communities are served by Tel-a-Ride because of previous routing
- 45 CARTA's existing Tel-A-Ride application form: <https://www.ridecarta.com/wp-content/uploads/2019/07/TelARide-Temp-App-072019.pdf>
- 46 See TriCounty Link's website for more information on its deviated-route service policy: <https://ridetricountylink.com/ada-policy/>
- 47 To see TriCounty Link's application form for deviated-route service, please visit: <https://ridetricountylink.com/wp-content/uploads/2015/04/TCLADADeviatedRouteApplication.pdf>
- 48 See the CARTA OnDemand webpage for more information: <https://www.ridecarta.com/services/ondemand/>
- 49 BCDCOG. TriCounty Link Routes final report. October 17, 2017
- 50 Vogels, E.A. Digital divide persists even as Americans with lower incomes make gains in tech adoption. Pew Research Center. June 22, 2021. <<https://www.pewresearch.org/fact-tank/2021/06/22/digital-divide-persists-even-as-americans-with-lower-incomes-make-gains-in-tech-adoption/>>
- 51 American Community Survey, U.S. Census Bureau. Table ID: B28001. 2015-2019. Five-year Estimates
- 52 American Community Survey, U.S. Census Bureau. Table ID: B28004. 2015-2019. Five-year Estimates
- 53 Vogels, E.A. Digital divide persists even as Americans with lower incomes make gains in tech adoption. Pew Research Center. June 22, 2021. <<https://www.pewresearch.org/fact-tank/2021/06/22/digital-divide-persists-even-as-americans-with-lower-incomes-make-gains-in-tech-adoption/>>
- 54 For more information, visit: <https://gogograndparent.com/faq>
- 55 For a full and routinely updated list of fares, visit: <https://www.ridecarta.com/fares-passes/>
- 56 For a full and routinely updated list of fares, visit: <https://www.ridecarta.com/fares-passes/>
- 57 To use qualify for this discount, passengers must receive a Disabled Fare identification card at the SC Works Charleston Career Center
- 58 In-person locations for CARTA pass purchases:
- › **Charleston Visitor Center**  
375 Meeting Street, Charleston  
Mon-Sun, 8:30 AM - 5:00 PM
  - › **Mt. Pleasant Visitor Center**  
99 Harry M. Hallman Boulevard, Mt. Pleasant  
Mon - Sun, 9:00 AM - 5:00 PM
  - › **CARTA Main Office**  
3664 Leeds Avenue, North Charleston  
Mon - Fri, 8:30 AM - 5:00 PM
  - › **SC Works Career Center**  
1930 Hanahan Road, North Charleston  
Mon - Fri, 8:30 AM - 5:00 PM
  - › Piggly Wiggly  
8780 Rivers Avenue, North Charleston  
Mon - Sun, 7:00 AM - 11:00 PM
  - › **Price Wise**  
1270 Yeamans Hall Road  
Mon - Sat, 7:00 AM - 10:00 PM  
Sun, 8:00 AM - 9:00 PM



- 78 For more information on this program, visit: <https://www.transit.dot.gov/funding/grants/enhanced-mobility-seniors-individuals-disabilities-section-5310>
- 79 A Golden Ride Personal Senior Transportation can accommodate passengers in wheelchairs if they are able to stand and pivot
- 80 For real-time bus arrival information for the Medical University of South Carolina's shuttles, visit: <http://www.muscarolina.ridesystems.net/routes/23/stops>
- 81 For more information on the VA's van service, visit: <https://www.va.gov/charleston-health-care/dav-vans-transportation-for-veterans/>
- 82 For more information on the VA's shuttle services, visit: <https://www.va.gov/charleston-health-care/locations/ralph-h-johnson-department-of-veterans-affairs-medical-center/>
- 83 For more information on the VA's Beneficiary Travel program, visit: <https://www.va.gov/health-care/get-reimbursed-for-travel-pay/>
- 84 CofC/Grice Shuttle Service. Accessed February 15, 2022. <<https://ssm.cofc.edu/shuttle.php>>
- 85 For more information on the College of Charleston's subsidized CARTA trips, visit: <https://parkingservices.cofc.edu/information-for/carta-bus-service.php>
- 86 For more information on the Medical University of South Carolina's subsidized CARTA trips, visit: <https://web.musc.edu/about/facilities/sustainability/transportation>
- 87 BCDCOG. Regional Park-&-Ride Study. September 2018. <<https://www.bcdcog.com/transportation/planning/regional-park-and-ride-study/>>
- 88 BCDCOG. TriCounty Link Routes final report. October 17, 2014
- 89 For more information on the HOP lot, visit: <https://www.ridecarta.com/services/hop-park-and-ride-shuttle/>
- 90 For more information on MUSC's bikeshare program, visit: <https://www.mymuschousing.com/resource>
- 91 This discounted pricing information was accurate for the Holy Spokes bikeshare service operated by Gotcha Bike up through January 2021. At the time of this publication, it is unknown if the City of Charleston's new bikeshare operator, Lime, will maintain the same incentives for students
- 92 For more information on the College of Charleston's bikeshare program, visit: <https://bike.cofc.edu/bike-share-program/index.php>



Section Title

## APPENDICES

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# APPENDIX A: SUMMARY



TOP 10 OBJECTIVES (2022-2027)	PROGRESS MADE (2015-2021)	PERFORMANCE TARGETS (2022-2027)
<p><b>VEHICLE ACCESSIBILITY -</b> Consider a passenger’s whole journey to improve physical accessibility beyond ADA requirements</p>	<p>All new CARTA vehicle purchases are ADA-compliant, new fixed-route vehicles include a built-in stop announcement system, and BCDCOG is currently studying potential transportation strategies to improve healthy food access</p>	<p>By 2027, help human service provider to install 15 ADA-accessible ramps at eligible Tel-A-Ride passengers’ residences</p>
		<p>Work with local municipalities to allow bus idling during scheduled layovers in the summer months to maintain temperature control</p>
<p><b>STOP ACCESSIBILITY -</b> Work to improve passenger’s comfort and safety while traveling to bus stops and waiting for buses to arrive</p>	<p>BCDCOG hired a transit planning team member in 2019 to facilitate installation of new bus stop accommodations</p>	<p>Send 100% of notifications to people requesting bus stops within 21 days</p>
	<p>CARTA’s Board of Directors adopted the Transit &amp; Bus Stop Design Guidelines in 2021</p>	<p>Add new appendices for pedestrian connectivity, bicycle parking demand, and stop placement cues for low-vision and blind bus riders</p>
	<p>Between 2016 and 2021, BCDCOG helped municipalities install 54 shelters, 31 benches, 14 digital signs, 4 Park-&amp;-Ride lots, and over 130 solar lights</p>	<p>By 2027, install 60 new shelters, 72 new digital message signs, obtain 20% of shelters with benches, obtain 15% of shelters with bike racks</p>
<p><b>INFORMATION SHARING -</b> Seek opportunities to stay up-to-date on existing services and best practices for providing mobility options for older adults and people with disabilities and share these back with interested parties</p>	<p>BCDCOG staff periodically attended Lowcountry Senior Network meetings to provide service updates</p>	<p>Develop a new landing page for “Aging &amp; Health” on the BCDCOG website and attend Lowcountry Senior Network meetings on a quarterly basis to stay informed on changes in the industry</p>

TOP 10 OBJECTIVES (2022-2027)	PROGRESS MADE (2015-2021)	PERFORMANCE TARGETS (2022-2027)
<p><b>ROUTE INFORMATION -</b> Continue to build upon existing route information strategies with an emphasis on providing a wide-range of options to cover all comfort levels with technology</p>	BCDCOG revamped CARTA's website in 2017	Incorporate universal design best practices into planned newly-printed route brochures
	BCDCOG launched the mobile "Transit" app in 2017 and the mobile "MyTCLink" app in 2019	Develop a desktop companion to the mobile MyTCLink app
	The CARTA Ambassador program was established in the early 2010s and is ongoing	Expand the number of existing CARTA Transit Ambassadors and expand the program to TriCounty Link
	BCDCOG installed 14 digital message signs and began the installation in-vehicle audio and visual cues in CARTA fixed-route buses	Continue to install at least 12 new digital message signs per year and add in-vehicle audio and visual cues of upcoming stops to all new transit vehicles
<p><b>RIDESHARE PARTNERSHIP -</b> Fill the gap created by discontinued coordinated rideshare programs</p>	Senior Ride Charleston's operations ceased in 2019 leaving a large gap in the region for affordable transportation for older adults	Routinely update a list of private transportation providers and share with All About Seniors, the Trident Area Agency on Aging, and other interested groups for inclusion in their publications; work through the reconvened Coordination Group to engage churches about transportation services, explore shared financing for a volunteer-based rideshare program, and the creation of a referral list of private transportation providers
	BCDCOG launched the "Lowcountry Go" mobile and desktop platforms in 2018	
	BCDCOG purchased a fleet of vans to support its vanpool program in 2021 and hired a full-time vanpool coordinator in 2022	Continue to promote the vanpool program as a transportation option for low-income workers
<p><b>SUSTAINED COLLABORATION -</b> Develop a sustainable structure for BCDCOG, CARTA and TriCounty Link to continue to solicit feedback from human service organizations and members of the public, as well as facilitate conversations among related groups</p>	BCDCOG convened "Human Service Transportation Coordination Partners" meetings between 2015 and 2017	Reconvene annual Coordination Group meetings, and work through the group to update transit training manuals every three years
	Starting in 2017, CARTA regularly convenes two Transit Rider Advisory Committees (TRACs) for fixed-route and Tel-A-Ride service	Expand TRAC to include at least 10% rural representation



TOP 10 OBJECTIVES (2022-2027)	PROGRESS MADE (2015-2021)	PERFORMANCE TARGETS (2022-2027)
<p><b>OPERATOR INTERACTIONS -</b> Develop more formalized systems for facilitating driver interactions with older adults and people with disabilities to improve the overall passenger experience</p>	New objective!	<p>Develop and distribute notification cards to assist non-verbal passengers in communicating trip needs with transit drivers</p> <p>Work with CARTA and TriCounty Link to clarify existing policies regarding personal care attendants and approved documents for demonstrating proof of age</p>
<p><b>SECTION 5310 FUNDING -</b> Receive urban Section 5310 funding applications from a broader range of public agencies, human service organizations, and private transportation providers, as well as for a more diverse range of proposed activities compared to 2015-2021 applications</p>	In 2020, BCDCOG transitioned from a more open-ended narrative format for Section 5310 (Urban) funding recipients to report their activities on a quarterly basis to a 6-page standardized, interactive PDF	Expand (from 3-5 applicants per year to and 10 per year) diversify the applicant pool for Section 5310 funding through simplified forms and direct outreach to human service providers
<p><b>INSTITUTIONAL OUTREACH -</b> Identify opportunities to work with larger institutions on documenting mobility needs for older adults and people with disabilities</p>	New objective!	<p>Solicit participation from higher education institutions in the Coordination Group and document campus-related transportation needs for people with disabilities and low-income students</p> <p>Collate existing emergency evacuation procedures for older adults and people with disabilities</p>
<p><b>ACCESS TO DESTINATIONS -</b> Identify new opportunities to improve employment access for people with disabilities</p>	BCDCOG is currently developing the Lowcountry Rapid Transit (LCRT) system, including a Transit-oriented Development Study and transit signal prioritization project	<p>Promote the post-pandemic benefits of teleworking to employers and employees through Lowcountry Go</p> <p>Increase transit and carpool commute mode share near emerging employment centers to system-wide percentages</p>



# APPENDIX B: COMMUNITY FEEDBACK



BERKELEY-CHARLESTON-DORCHESTER  
COUNCIL OF GOVERNMENTS

## HUMAN SERVICES COORDINATION SURVEY



Scan here to access the  
online survey

1. What is your current primary means of transportation to essential services (medical, grocery, etc.)?
  - a. Personal vehicle
  - b. Friend, family, or social organizations (church, senior center, etc.)
  - c. Transit (bus)
  - d. Walk
  - e. Bicycle
  - f. Taxi/Rideshare
  - g. Other \_\_\_\_\_
2. Is your current mode of transportation easy and efficient?
  - a. Yes
  - b. No
3. Is your current mode of transportation affordable?
  - a. Yes
  - b. No
4. How many trips per week to essential services to you make?
  - a. 1-2
  - b. 3-4
  - c. 5 or more?
5. What are your top 3 destinations you would need transport to?
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
6. Is public transportation an option for you?
  - a. Yes. I use it.
  - b. No. It is not available where I live.
  - c. No. It does not go where I need to go.
  - d. No. It is not available at the times or days when I need it.
  - e. No. The vehicles are not wheelchair accessible
  - f. Other: \_\_\_\_\_





# APPENDIX C: STAKEHOLDER FEEDBACK

## Coordination Plan - Strategy Prioritization

**Admin** – Adopt policies, conduct training, and provide customer service that is responsive to the needs of transportation-disadvantaged populations

**Access** – Build and maintain transit accommodations that serve the needs of people of all ages and abilities

**Coordination** – Create a venue for transportation providers and human service agencies to discuss needs, opportunities, and funding

**Partnerships** – Forge agreements for expanding services, reducing costs, or fostering resiliency through shared transportation responsibilities

Compare the importance of these goals by picking where you fall on the scale from +3 (much more important) to +1 (slightly more important). Note: You must select one goal as being as important as the other; there is no *neutral* option.

OK

*Example*—What do you value more in picking a college: sports or academics?

0 of 7 answered

### \* Admin v. Access

Admin +3    Admin +2    Admin +1    Access +1    Access +2    Access +3

### \* Admin v. Coordination

Admin +3    Admin +2    Admin +1    Coordination +1    Coordination +2    Coordination +3

### \* Admin v. Partnerships

Admin +3    Admin +2    Admin +1    Partnerships +1    Partnerships +2    Partnerships +3

### \* Access v. Coordination

Access +3    Access +2    Access +1    Coordination +1    Coordination +2    Coordination +3

### \* Access v. Partnerships

Access +3    Access +2    Access +1    Partnerships +1    Partnerships +2    Partnerships +3

### \* Coordination v. Partnerships

Coordination +3    Coordination +2    Coordination +1    Partnerships +1    Partnerships +2    Partnerships +3

# APPENDIX D: SECTION 5310 REQUIREMENTS



Transit assistance programming for older adults and people with disabilities from the Federal Transit Administration's 2014 Circular 9070.1G (which supersedes previous guidance from 2007) for 49 U.S.C. 5310:

[https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/C9070\\_IG\\_FINAL\\_circular\\_4-20-15%281%29\\_1.pdf](https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/C9070_IG_FINAL_circular_4-20-15%281%29_1.pdf)

ELIGIBLE PROJECT TYPES OVERVIEW	
Eligible for Capital (55% minimum)	Eligible for Operations (45% maximum)
ELIGIBLE PROJECT TYPES KEY*	
Capital projects that meet the 55% minimum requirement	Operating projects that meet the 45% maximum requirement
<ol style="list-style-type: none"> <li>1. Rolling stock and related activities for Section 5310-funded vehicles</li> <li>2. Passenger facilities related to Section 5310-funded vehicles</li> <li>3. Support facilities and equipment for Section 5310-funded vehicles</li> <li>4. Lease of equipment when lease is more cost effective than purchase</li> <li>5. Acquisition of transportation services under a contract, lease, or other arrangement</li> <li>6. Support for mobility management and coordination programs among public transportation providers and other human service agencies providing transportation</li> <li>7. Capital activities (e.g., acquisition of rolling stock and related activities, acquisition of services, etc.) to support ADA-complementary paratransit service may qualify toward the 55 percent requirement, so long as the service is provided by an eligible recipient/subrecipient as defined in section 5, above, and is included in the coordinated plan.</li> </ol>	<ol style="list-style-type: none"> <li>1. Exceed the ADA minimum requirements</li> <li>2. Improve access to fixed-route service and decrease reliance by individuals with disabilities on ADA-complementary paratransit service</li> <li>3. Provide alternatives to public transportation that assist seniors and individuals with disabilities with transportation</li> </ol>

\*refer to FTA C 9070.1G pp. III-9 - III-15



# APPENDIX E: FUTURE SURVEY QUESTIONS

## User Survey

1. In general, which of these phrases best describes how well your household's transportation needs are currently being met?
  - a. Can always get places
  - b. Can usually get places
  - c. Can get places but it takes a long time
  - d. Sometimes cannot get places
  - e. Often cannot get places
2. If you need information about public transportation services, how do you currently get it?
  - a. I've never tried to get public transit information
  - b. I use the internet
  - c. I ask a friend or family member
  - d. I call the transportation agency
  - e. I look in the phone book
  - f. I ask a bus driver
  - g. I use the system's printed guidance (, printed bus schedules, brochures, et)
  - h. I ask a social worker, case worker, or social service provider
  - i. Other: \_\_\_\_\_
3. How would you like to get information about public transit services?
  - a. By calling the transit agency on the telephone
  - b. In printed materials such as bus schedules and brochures
  - c. On the internet
  - d. Displays or signs at the bus stop
  - e. From a social worker, case worker, or social service provider
  - f. From friends or family
4. How familiar are you with the following transportation programs?

• Very familiar	c. CARTA OnDemand
• Somewhat familiar	d. CARTA Transit Ambassador program
• Not very familiar	e. CARTA's Transit App
• Don't know about at all	f. Tri-County Link deviated route service
a. BCDCOG's vanpool program	g. Tri-County Link traveler training
b. CARTA Tel-A-Ride	h. TriCounty Link's MyTCLink app

