

Moving Our

Vision Forward

Innovative. Bold. Regional.

Our growing region is centered on an economic engine that supports over 2.6 million people. As a region, our mobility challenges and solutions extend well beyond the borders of any one city, town, or county.

We simply cannot address our common mobility challenges alone.

Charlotte City Council has adopted a series of innovative and bold plans to guide Charlotte's growth and complement our region's mobility vision – CONNECT Beyond. The Charlotte Future 2040 Comprehensive Plan serves as the foundation for our holistic city vision, and our Strategic Mobility Plan defines a mobility future with expanded travel choices that are safe and equitable.

As Charlotte and our regional partners continue to plan our mobility future, we must work together to connect our common goals. Coordinated partnerships will ensure that our challenges are addressed with regional, multimodal, and timely strategies that create increased access to jobs, housing, and education – resulting in upward mobility for all.



The Charlotte Future 2040 Comprehensive Plan shapes the places where we live & work.

Manufacturing

Shrinking the jobs and housing divide is key to unlocking upward economic mobility. Community 1

The ways we move need to be as varied as the places we create.

Pedestrian

Our "places" and streets make walking and rolling part of every trip we make between jobs, daily needs, and neighborhoods.

Vehicles

Our streets and roadways facilitate the efficient movement of people and goods in vehicles, while also providing space for all users.

Bike & **Micromobility**

> Our greenways and streets create a network for bikes, scooters, and emerging technologies for commuting, recreation, and short daily trips.

High-Frequency Bus Transit

> Our network of highfrequency bus corridors reaches into our neighborhoods making daily needs, services, and jobs accessible across the city.

Rapid Transit

Our city and regional transit corridors provide efficient, affordable, highcapacity mobility to link our communities to regional job opportunities.

Heighborhood 2

Streetcar Transit

Our streetcar corridor ties our transit system to our most intense concentration of regional jobs, healthcare services, and educational institutions.

Microtransit Zones

Our on-demand mobility service completes the first/ last mile of trips to jobs, services, and housing beyond the current reach of fixed transit routes.

Innovation

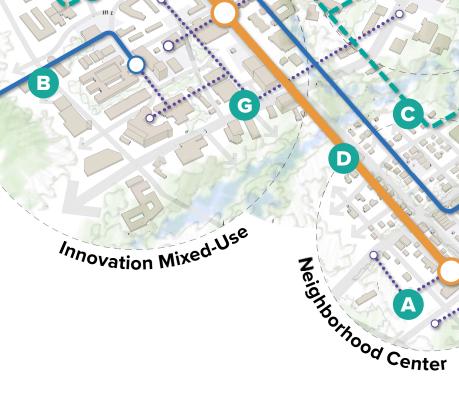
Commercial

Our infrastructure is prepared for autonomous mobility and ongoing advancements in vehicle-to-infrastructure (V2I) communication.

agional Activity Center

10-Minute **Neighborhoods**

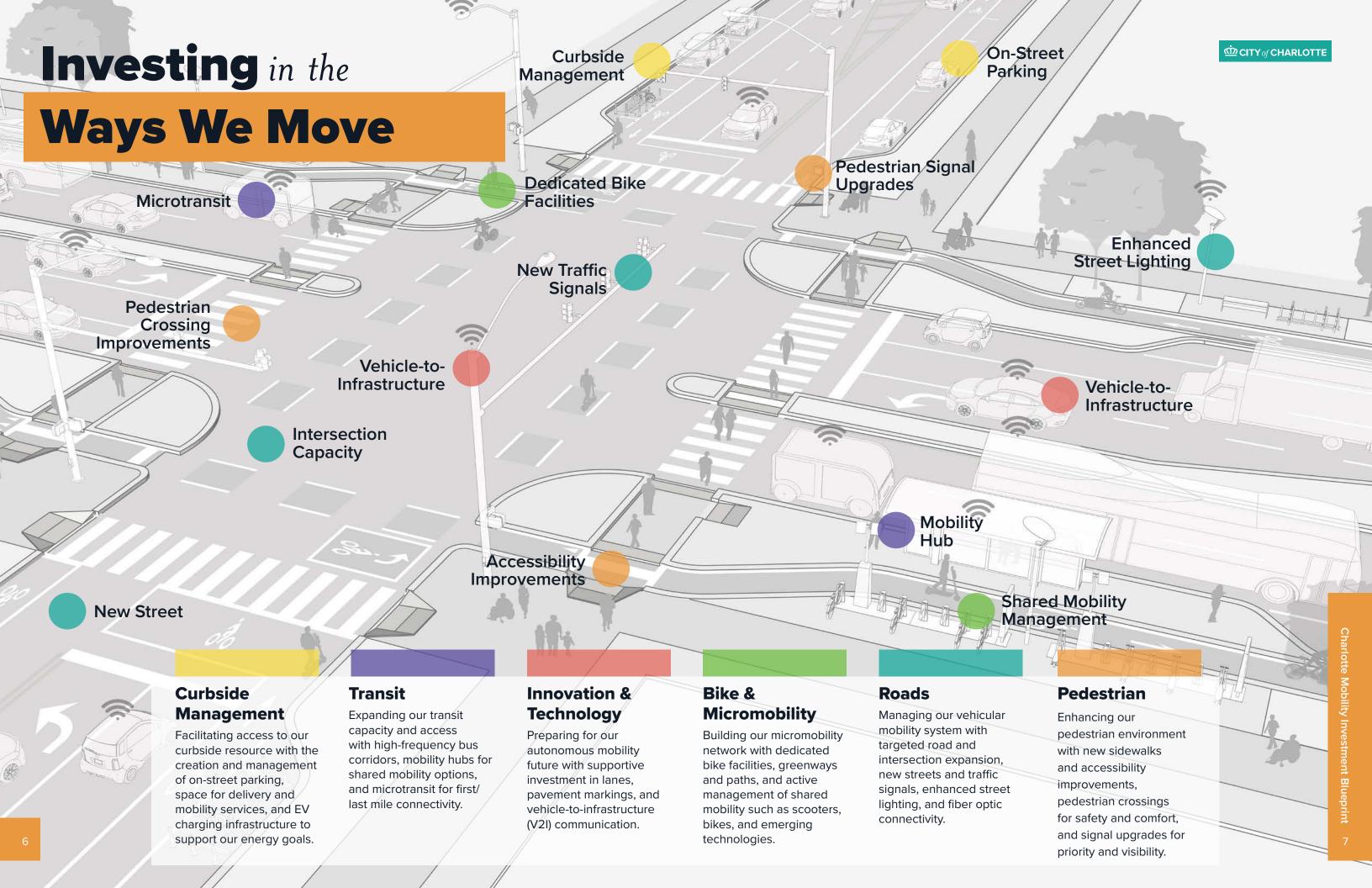
> Our vision of "places" puts more jobs, housing, and services closer together, which reduces and shortens trips on our streets.













Step

1 Mobility Priorities

COMPLETE

Established data-driven analysis, based on criteria derived from the goals of the Charlotte Future 2040 Comprehensive Plan and Strategic Mobility Plan, identifying areas where our mobility policies and priorities align for further project exploration and definition.

The results of this analysis are represented by the blue areas highlighted on the map.

Step

2 Mobility Opportunities

COMPLETE

Cataloged unfunded infrastructure opportunities based on current knowledge of real-world conditions.

Deliverable: Identified Mobility Opportunities Report

Step Step Strategic Investment Areas ONGOING

Prepare a draft Strategic Investment Area Workbook addressing areaspecific mobility needs with a menu of potential investments (big and small, short and long-term).

Step 5 Project Feasibility

UPCOMING

Conduct initial project feasibility within the Strategic Investment Areas to establish a list of potential

4. Public Engagement

Engage the public during the

potential mobility investment.

Charlotte Future 2040 Community

Area Planning process on the draft

Strategic Investment Areas to ensure

community priorities are aligned with

UPCOMING

projects for prioritization based on benefit and need.

Step

Step

6 Advanced **Planning**

UPCOMING

Advance the planning and design of prioritized projects to evaluate benefit to cost and select the most impactful projects for continued design, funding consideration, and implementation.

Spotlights

The spotlights on this map represent a sample of *Mobility* **Opportunities** overlaid on our *Mobility* **Priorities**. For more information on these opportunities, see the Citywide Mobility Opportunities summary on pages 10 and 11 and the Mobility Opportunities by Council District on pages 12 to 25.

The **Identified Mobility Opportunities Report** contains a full list of opportunities.

Roads & Complete Streets

miles of Road Widenings & **Complete Streets**

Existing streets in which additional vehicular capacity may be needed, as well as multimodal facilities

miles of **New Street Connections**

Identified new streets that would enhance the overall street network by providing alternate routes and relieving pressure on existing streets

NCDOT Project Partnerships

Funded by NCDOT for construction but requires city betterments funding for enhanced complete street multimodal improvements

36 **High Congestion Intersections**

Identified intersections in which consistent traffic delay significantly impedes the flow of traffic

Bridge Replacements

Bridges that are functionally obsolete or where maintenance of the bridge is no longer the preferred strategy

Thoroughfares

Street segments where street lighting could be installed or upgraded to LED to increase visibility and improve safety in support of the city's Vision Zero strategy

miles of Fiber Optic Connections

Locations where traffic signal and traffic camera communications can be modernized to support the efficient management of traffic

Traffic Signals

Locations identified for new traffic signals or modifications to existing signals, such as turn signals, to support efficient management of traffic

Transit

High-Frequency Bus Corridors

An identified and expanded network of bus corridors that will increase frequency and minimize travel time to jobs, services, and recreation

Transit

Identified expansions of the LYNX Rapid Transit System to support the 2030 Transit Corridor System Plan

Mobility Hubs

Defined centers for clustered transportation options and amenities, including walking, biking, transit, and micromobility

Microtransit Zones

Flexible service model with on-demand service in lower-density areas with high need

Pedestrian

Thoroughfares Without Sidewalks

Identified sidewalk gaps along thoroughfare streets

Pedestrian Crossings

Locations identified for pedestrian improvements, such as pedestrian hybrid beacons and refuge islands, to support safe street crossings

Pedestrian Signal Upgrades

Locations identified for technology solutions, such as Accessible Pedestrian Signal push buttons and Leading Pedestrian Intervals, to support safe street crossings

Micromobility

miles of

Mecklenburg County

Greenways

Identified greenway segments for expansion to provide additional multimodal network for pedestrians, cyclists, and micromobility users

miles of **Bike Priority** Network

Identified gaps in the Bike Priority Network

These infrastructure opportunities represent current knowledge of real-world conditions that will evolve and be refined over time. All of these opportunities are unfunded, and no advanced planning work has been completed to determine project viability or cost estimates. All mileages are approximate until alignments have been refined through advanced planning. 11

Spotlights

Roads & Complete Streets

- **New Street Connections**
- **Traffic Signals**
- **Bridge Replacements**
- **Fiber Optic Connections**
- Road Widenings & **Complete Streets**
- Unlit **Thoroughfares**
- **Intersections**
- **High Congestion**

Micromobility

Bike Priority Network

Mecklenburg County Greenways

Transit

Pedestrian

High-Frequency miles of Bus Corridors

Pedestrian

Crossings

Mobility Hubs

- **Pedestrian Signal Upgrades**
- Microtransit **Zones**
- **Thoroughfares** Without Sidewalks

- Rapid miles of Transit

The spotlights on the map represent a sample of Mobility Opportunities. The Identified Mobility Opportunities Report contains a full list of opportunities. All mileages are approximate until alignments have been refined through advanced planning.

Pedestrian Signal Upgrades

Upgrade 102 signalized intersections with leading pedestrian intervals, blankout signs, and/or accessible pedestrian signals, including at key intersections along North Graham and North Tryon Streets. Construction of sidewalk gaps may be paired with signal upgrades for enhanced pedestrian safety.

Microtransit Zones

Implement the Hidden Valley Microtransit Zone to better serve the neighborhood with first/last mile on-demand connectivity to bus routes 11 and 39 and the LYNX Blue Line, while also connecting residents to amenities such as the Eastway Regional Recreation Center.

New Street Connections

Extend Philemon Avenue from East Craighead Road to East 36th Street to restore access to North Davidson Street and support economic development along the LYNX Blue Line and Cross Charlotte Trail.

Bike Priority Network

Complete the Uptown CycleLink, a 7-mile network of bike facilities around Center City that connects a citywide network of over 40 miles of existing bikeways including the Blue Line Rail Trail, Cross Charlotte Trail, The Seam Trail, and Irwin Creek Greenway.

Rapid Transit

Construct LYNX Silver Line light rail and CityLYNX Gold Line Phase 3 of the streetcar to create important east/ west connections, provide multimodal amenities, and incorporate equitable transit-oriented development planning along the corridors to ensure housing options, a mix of uses, and mobility improvements.

Spotlights

Mobility Opportunities

Roads & Complete Streets

- **NCDOT Project Partnerships**
- **Traffic Signals**
- **New Street Connections**
- **Fiber Optic Connections**
- **Bridge** Replacement
- Unlit **Thoroughfares**
- **Road Widenings & Complete Streets**
- **High Congestion Intersections**

Micromobility

- **Bike Priority** Network
- **Mecklenburg County Greenways**

Transit

- **Pedestrian**
- **High-Frequency Bus Corridors**
- **Pedestrian Crossings**

Mobility Hubs

- **Pedestrian Signal Upgrades**
- Microtransit Zones
- **Thoroughfares** Without Sidewalks

Rapid miles of Transit

Construct shared use paths along several key corridors, including Mt Holly-Huntersville Road, Bellhaven Boulevard, and Rozzelles Ferry Road, to provide dedicated facilities for pedestrians and cyclists, and to connect

Thoroughfares Without

Sidewalk

to a network of parks and greenways, such as Gum Branch Greenway, Coulwood Community Park, and Shuffletown Community Park.

Unlit **Thoroughfares**

Advance Vision Zero goals and improve safety along Statesville Avenue by installing streetlighting from Old Statesville Road to Lakeview Road.

Mecklenburg County Greenways

Design and build the East/West Trail to provide multimodal connectivity to activity centers, jobs, and multiple north/ south greenways including Irwin Creek and Stewart Creek. A preliminary alignment for the trail connects the Whitewater Center to the Town of Matthews.

NCDOT Project Partnerships

Support NCDOT's plan to widen Freedom Drive from Moores Chapel Road to Toddville Road with city funding contributions to construct a proposed mobility hub and install fiber, pedestrian signal upgrades, sidewalks, and bike facilities to connect to the future Paw Creek greenway just south of the project.

Rapid Transit

Construct CityLYNX Gold Line Phase 3 to complete the 10-mile east/ west streetcar line connecting Rosa Parks Place Community Transit Center to the Eastland Community Transit Center through Uptown and neighborhoods in West Charlotte and East Charlotte.

Roads & Complete Streets



NCDOT Project Partnerships

Traffic Signals

New Street Connections

Fiber Optic **Connections**

Bridge Replacements

Unlit **Thoroughfares**

Road Widenings & Complete Streets

High Congestion Intersections

Micromobility

Bike Priority Network

Mecklenburg County Greenways

Transit

High-Frequency miles of Bus Corridors

Pedestrian

Pedestrian Crossings

Mobility Hubs

Pedestrian Signal Upgrades

Microtransit Zones

Thoroughfares Without Sidewalks

Rapid miles of Transit

The spotlights on the map represent a sample of Mobility Opportunities. The Identified Mobility Opportunities Report contains a full list of opportunities.

Rapid Transit

Construct LYNX Silver Line light rail to create an east/west rail corridor and rail trail from the Town of Matthews to the Town of Belmont. Equitable transit-oriented development planning along the corridor will ensure housing options, a mix of uses, and mobility improvements.

NCDOT Project Partnerships

Support NCDOT's plan to widen Steele Creek Road from the state line to I-485, including redesigning the high congestion intersection at Shopton Road West. City funding contributions will install streetlighting and a shared use path for multimodal connectivity to the Hoover Creek and Walker Branch greenways.

New Street Connections

Extend Carowinds Boulevard from South Tryon Street to Shopton Road, providing a new east/west connection in Steele Creek with complete street multimodal facilities.

Spotlights

High-Frequency Bus Corridors

Implement increased frequency for Bus Priority Corridor Route 2 along Ashley Road between the LYNX Blue Line to the Valerie C Woodard Center. A mobility hub at West Boulevard and Remount Road and the overlapping Airport Microtransit Zone are planned to support first/last mile on-demand services.

High Congestion Intersections

Study several high congestion intersections in the Steele Creek area to determine if infrastructure improvements could address congestion. Potential intersections along South Tryon Street include West Arrowood Road, Carowinds Boulevard, and Westinghouse Boulevard.

Spotlights

Roads & Complete Streets

- **NCDOT Project Partnerships**
- **Traffic Signals**
- **New Street Connections**
- **Fiber Optic Connections**
- **Road Widenings & Complete Streets**
- Unlit **Thoroughfares**
- **High Congestion Intersections**

Micromobility

Bike Priority Network

miles of

Mecklenburg County Greenways

Transit

Pedestrian

- **High-Frequency** miles of Bus Corridors
- **Pedestrian Crossings**

Mobility Hubs

- **Pedestrian Signal Upgrades**
- Microtransit Zones
- **Thoroughfares** Without Sidewalks

Rapid **Transit**

New Street Connections

Extend Prosperity Ridge Road from Johnston-Oehler Road to Prosperity Church Road to improve network connectivity and mitigate congestion. New street connections provide complete street multimodal facilities in addition to vehicular travel lanes.

NCDOT Project Partnerships

Support NCDOT's plan to widen Mallard Creek Road from Breezewood Drive to Prosperity Church Road with city funding contributions to install streetlighting, pedestrian signal upgrades, and a shared use path to connect pedestrians and cyclists to the existing Mallard Creek Greenway and future Stony Creek Greenway.

High-Frequency Bus Corridors

Implement increased frequency for Bus Priority Corridor Route 7 along Reames Road and Statesville Road and construct a mobility hub at Northlake Mall.

Microtransit Zones

Provide first/last mile on-demand services to University City by implementing the UNC Charlotte Microtransit Zone to connect the LYNX Blue Line to campuses and job centers such as UNC Charlotte and University Research Park.

Thoroughfares Without Sidewalk

Construct shared use path along WT Harris Boulevard from I-77 to Grier Road to provide dedicated facilities for pedestrians and cyclists. This facility will connect a network of greenways, including the existing Toby Creek and Mallard Creek Greenways and the future Doby Creek Greenway.

Spotlights

New Street

Connections

Enhance the street network

by constructing the Eastern Circumferential Road from The Plaza to Wilson Grove Road. This

approximately five-mile stretch of

new, complete street multimodal

congestion on the existing system.

facilities is intended to mitigate

Mobility Opportunities

Roads & Complete Streets

- **NCDOT Project Partnerships**
- **Traffic Signals**
- **New Street Connections**
- Fiber Optic **Connections**
- **Road Widenings & Complete Streets**
- Unlit **Thoroughfares**

High Congestion Intersections

Micromobility

Bike Priority Network

Mecklenburg County Greenways

Transit

Pedestrian

- **High-Frequency Bus Corridors**
- **Pedestrian Crossings**

Mobility Hubs

- **Pedestrian Signal Upgrades**
- Microtransit Zones
- **Thoroughfares**

Rapid Transit Without Sidewalks

The spotlights on the map represent a sample of Mobility Opportunities. The Identified Mobility Opportunities Report contains a full list of opportunities. All mileages are approximate until alignments have been refined through advanced planning.

Rapid Transit

Construct LYNX Silver Line light rail and CityLYNX Gold Line Phase 3 of the streetcar to create important east/ west connections, provide multimodal amenities, and incorporate equitable transitoriented development planning along the corridors to ensure housing options, a mix of uses, and mobility improvements.

Thoroughfares Without Sidewalks

Enhance pedestrian safety along the Harrisburg Road corridor with pedestrian signal upgrades, streetlighting, and a shared use path to create an important connection to McKee Creek Greenway.

Mecklenburg County Greenways

Design and build the East/West Trail to provide connectivity to activity centers, jobs, and existing multimodal networks such as the McAlpine Creek Greenway. A preliminary alignment for the trail connects the Town of Matthews to the Whitewater Center.

NCDOT Project **Partners**hips

Support NCDOT's plan to implement express lanes on Independence Boulevard to mitigate congestion on a primary route to Uptown from southeast Mecklenburg County and Union County. The city will contribute funding to improve parallel routes with multimodal facilities to enhance pedestrian and cyclist safety.

Spotlights

Roads & Complete Streets

- **NCDOT Project Partnerships**
- Traffic **Signals**

- **New Street Connections**
- Fiber Optic **Connections**

- - **Road Widenings & Complete Streets**
- Unlit **Thoroughfares**
- **High Congestion Intersections**

Micromobility

Bike Priority Network

Mecklenburg County Greenways

Transit

High-Frequency Bus Corridors

- **Mobility** Hubs
- Microtransit **Zones**
- Rapid

Pedestrian

- **Pedestrian Crossings**
- **Pedestrian Signal Upgrades**
- **Thoroughfares** Without Sidewalks

Transit

Bike Priority Network

Partner with the private sector to complete The Loop, a three-mile shared use path through the heart of SouthPark. The Loop is designed to comfortably accommodate pedestrians and cyclists and provide a hub for connections to the future McMullen Creek Greenway extension and the existing Backlot Trail, which connects to Park Road Park and the Cross Charlotte Trail.

High Congestion Intersections

Study several high congestion intersections to determine if infrastructure improvements could mitigate congestion. Potential intersections include Park Road and East Woodlawn Road, Colony Road and Fairview Road, Fairview Road and Providence Road, and Randolph Road and Sharon Amity Road.

Pedestrian Signal Upgrades

Upgrade 79 signalized intersections with leading pedestrian intervals, blankout signs, and/or accessible pedestrian signals. Construction of sidewalk gaps and installation of enhanced pedestrian crossings may be paired with signal upgrades to maximize safety.

New Street Connections

Connect Krefeld Drive with complete street multimodal facilities to improve street network connectivity and mitigate congestion on the existing system.

Fiber Optic Connections

Install fiber optic cable along Carmel Road from Pineville-Matthews Road to Fairview Road. Fiber is the foundation of smart infrastructure: it establishes a vehicle-toinfrastructure (V2I) network that prepares for automation, provides real-time data sharing, and facilitates transit priority operation.

Spotlights

Mobility Opportunities

Roads & Complete Streets



NCDOT Project Partnerships





New Street Connections



Fiber Optic Connections

Road Widenings & Complete Streets



Unlit **Thoroughfares**

High Congestion Intersections

Micromobility



Bike Priority Network

Mecklenburg County Greenways

Transit

High-Frequency





miles of Bus Corridors



Pedestrian Signal Upgrades

Microtransit Zone

Hubs

Mobility

Thoroughfares Without Sidewalks

Rapid

Transit

Thoroughfares Without Sidewalk

Connect sidewalk gaps along streets where development has incrementally constructed pedestrian facilities. Examples of opportunities include along Alexander Road, Old Providence

a disconnected network of

Road, and Rea Road.

Rapid Transit

Construct LYNX Blue Line Pineville-Ballantyne Extension to connect South Charlotte to Uptown. Integration of the Ballantyne Microtransit Zone will provide additional first/last mile on-demand service to existing and future job centers such as Ballantyne Reimagined.

New Street Connections

Enhance the South Charlotte street network by extending Bryant Farms Road to Johnston Road. New street connections provide complete street multimodal facilities and help mitigate congestion on the existing system.

NCDOT Project Partnerships

Support several NCDOT plans in South Charlotte, including widening Johnston Road from Ballantyne Commons Parkway to the state line and improving the I-485 interchange at Providence Road. The city plans to support these congestion mitigation efforts with funding to install streetlighting and shared use paths for multimodal connectivity.

Road Widenings & Complete Streets

Widen Ardrey Kell Road from Johnston Road to Providence Road to mitigate congestion and provide complete street multimodal facilities for improved access to activity centers and recreation destinations such as Elon Park, Flat Branch Park, and the future Flat Branch Greenway and Six Mile Creek Greenway extension.

Leading the

Future of Urban Mobility

Our Opportunity

The future of transportation infrastructure will not just be asphalt and concrete, but an ecosystem of advanced technologies and integrated mobility services, both public and private, that move people seamlessly across all modes.

Mobility Opportunity

The rapid pace of technology innovation in transportation presents an opportunity to introduce new services, transform customer expectations and experiences, and re-envision the way we move through the world around us.

Economic Opportunity

This state of technological transformation also connects mobility and economic opportunity in new ways - opening doors for small business creation, incubation and innovative expansion around mobility service, data management, and mobility technology infrastructure.

Defining Our Role

The city's emerging role in this ecosystem is to prepare for one integrated mobility vision that moves people and goods by whatever means (public or private) or mode (autonomous, on the ground, in the air) is most efficient, today and in our future.

Our Approach

Prepare for Automation

To be a national leader in the deployment of ubiquitous autonomous mobility by preparing our fiber optic network in support of a vehicleto-infrastructure (V2I) future

Facilitate Mobility as a Service

To connect the growing universe of ondemand mobility services through a regional Transportation Operating System (tOS) to achieve our mobility aspirations

Establish Mobility Hubs & Microtransit Zones

To build physical hub infrastructure to facilitate and on-demand services that extend public





Envision a mobility system that is good for residents, good for business, good for the environment, and good for equity.



