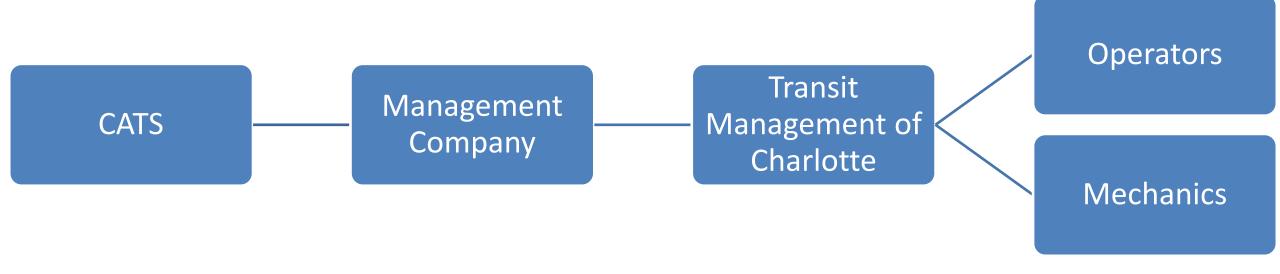


October 3, 2022

CATS Bus Operations Organizational Structure





National - Operator Shortages

• TriMet: Portland, Oregon

- "Starting January 10, 2022, 20 of our 84 bus lines will run less frequently on weekdays due to a shortage of bus operators and other workers" Source: <u>TriMet News Release (January 2022)</u>
 - "Starting Sept. 18, 2022, ten bus lines will have service reduced, including two that will have service canceled due to a shortage of bus operators." "Temporarily reducing service to match our staffing levels means that buses will run more true to schedule and riders will encounter far fewer canceled buses." Source: <u>TriMet Service Alert (July 2022)</u>

MARTA: Atlanta, Georgia

"Ninety-six of MARTA's 113 routes will run less frequently – they'll operate on a Saturday schedule, even on weekdays. The remaining 17 routes will maintain regular weekday schedules." Source: The Atlanta Journal-Constitution (December 2021)

CapMetro: Austin, Texas

 Service reductions adopted September 2021 due to labor shortages will remain in place through August 2022. Source: <u>KUT 90.5 Austin NPR</u>



Temporary Service Modifications

- In response to local operator shortages, CATS implemented a temporary adjustment to 20% of local and express routes as well as modifications to light rail service to improve service reliability on August 13th (rail) and August 15th(bus).
- Adjusted schedules provided transit users a consistent and reliable schedule to plan their travel.
- As operator availability improves, service will be added back based upon trip level ridership analysis.
- On Monday, August 15 out of 2,998 bus trips only 44 were missed.
- Compare that to past Mondays, which ranged anywhere from 300-500 missed trips.



Temporary Service Modifications

		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Aug. 8 – 11	Missed Trips	480	127	74	199	495	790	199
Average since service change Aug 15 - Sept 11	Missed Trips	11	1	1	2	1	86	11

- Additional improvements to the CATS-Pass app include:
 - In addition to bus route real time tracking, CityLYNX Gold Line and LYNX Blue Line car be viewed in the app
 - Fare Capping Pilot
 - Identification of Missed Trips

Charlotte Area Transit System

Fast Facts

 Largest transit system between Washington, DC and Atlanta Georgia

- Funded by Mecklenburg County
 ½ cent sales tax (1998)
- City of Charlotte Department
- Service Area Population: 1,302,619
- Service Area square miles: 675
- Vehicle Fleet
 - 304 buses
 - 83 Paratransit
 - 87 Vanpool
 - 42 Siemens S70 Light Rail Vehicles
 - 6 Hybrid Siemens Streetcar Vehicles
 - 22 miles of Rail
 - 69 Bus Routes







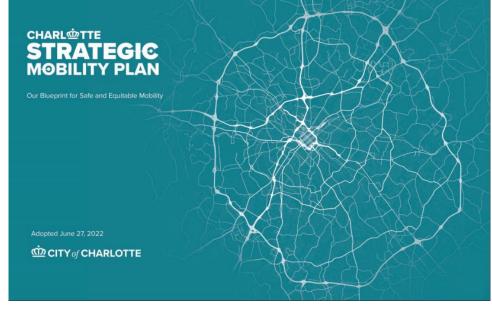
It Started with a Vision

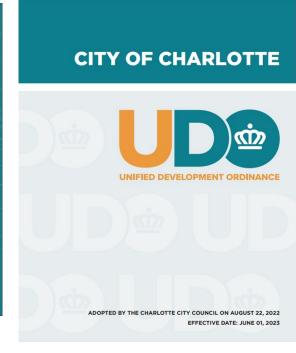




Today Transit is Integrated into City's Land Use, Transportation, and Sustainability Policies









GOAL 1: 10-MINUTE NEIGHBORHOODS

All Charlotte households should have access to essential amenities, goods, and services within a comfortable and treeshaded 10-minute walk, bike, to translit trip by 2040. Not all heighborhoods are expected o include every essential amenity, good, or service, but wery resident should have access within a ½ mile walk or 22-mile bike or translit ride.



2: NEIGHBORHOOD GOA ITY AND INCLUSION ACC

ariotte will entries for all phothods to have a poportunities fo poportunities for affordable housing entitled density housing entitled density housing entry for the preservation occurring afford workforce housing est and ensuring land use ulations allow for flexibility reation of housing within



USING LALL

ortunities for residents challenges for access adable housing through preservation of naturally development and force housing and passing the number of rabable and workforce inig units through new



AND TRAIL-ORIENTED DEVELOPMENT (2T-OD)

Charlotte will promote moderate to high-intensity, compact, mixed-use urban development along highperformance transit lines and near separated shared-use paths or trails.



GOAL 5: SAFE AND

equitable mobility options for all travelers regardless of age, income, ability, race, where they live, or how they choose to trave An integrated system of transit and tree-shaded bikeways, sidowalks, shared-use pathe, an streets will support a sustainable streets will support a sustainable innovative restwert that connect and Charlotteans to each other, jobs, housing, amenities, goods, services, and the region.

Equitable | 50-50 Mode Share

040 Aspiration

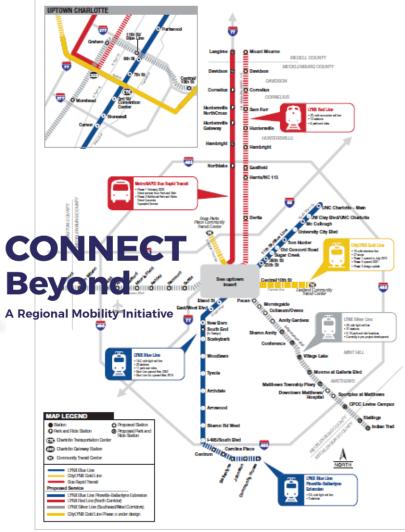
As a community, half of our commute trips will be made by means other than a single-occupancy vehicle, through walking, biking, and taking transit.



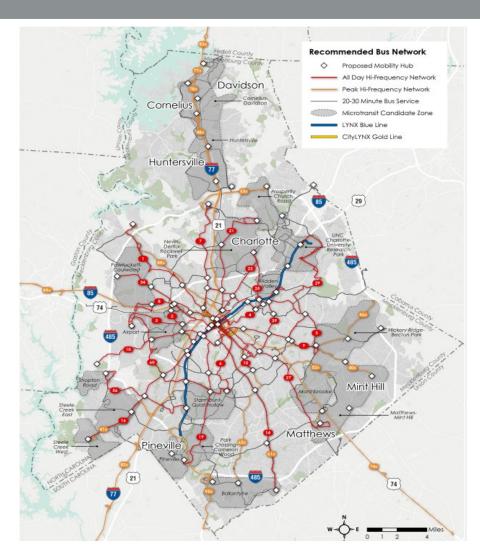




Building Upon The Vision



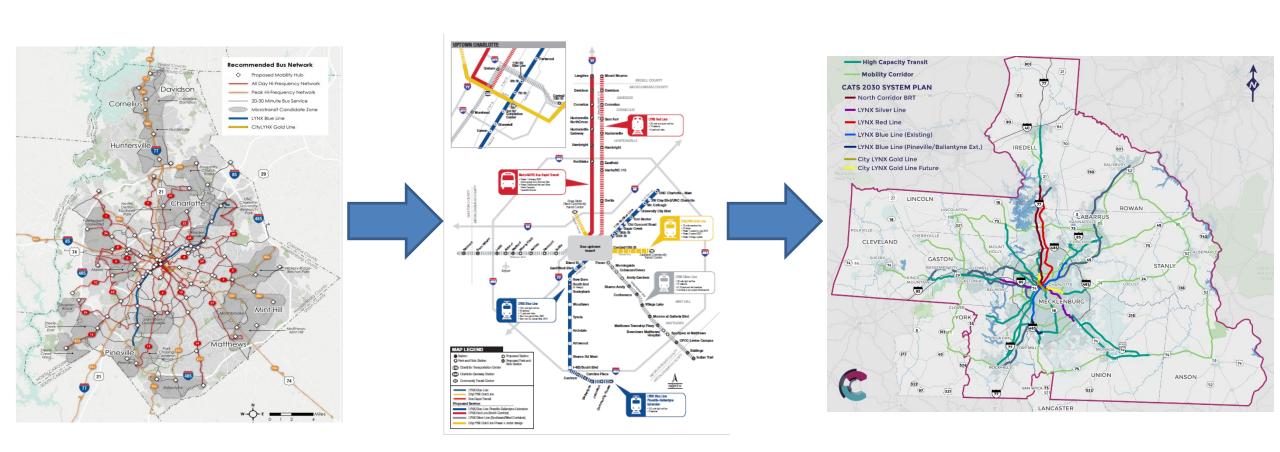
2030 Transit System Plan



Envision My Ride



Building Upon The Vision





Building a Better Bus Network

Envision My Ride established the foundation:



Create more frequent bus service



Create more direct bus service



Develop more crosstown connections



Greater connectivity between different routes

Bus Priority Study recommended capital improvements that:



Makes bus trips faster, more reliable, and more enjoyable.



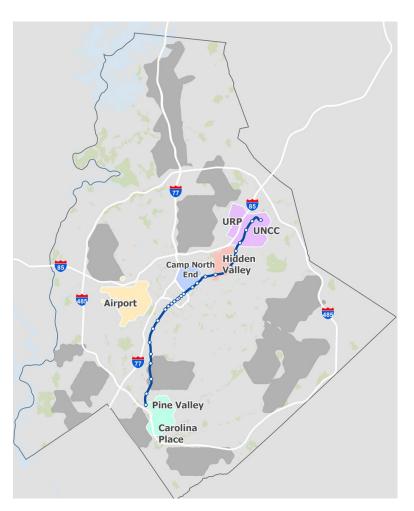
Improves connections to other transit lines, bikeshare, park & rides, and other mobility options



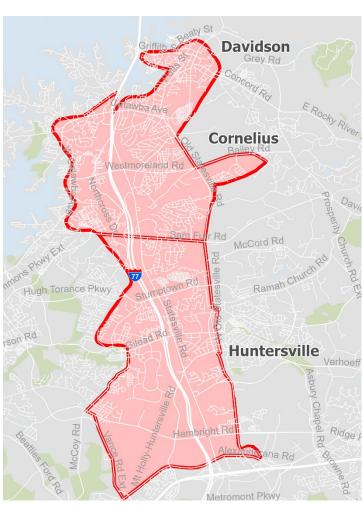
Improves the bus stop system-wide. Includes mobility hubs and greater amenity types



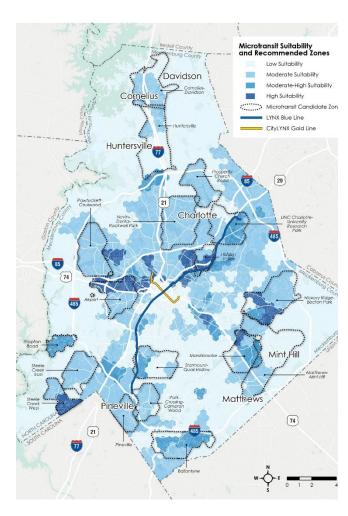
Microtransit



PHASE ONE: First/Last Mile Pilot

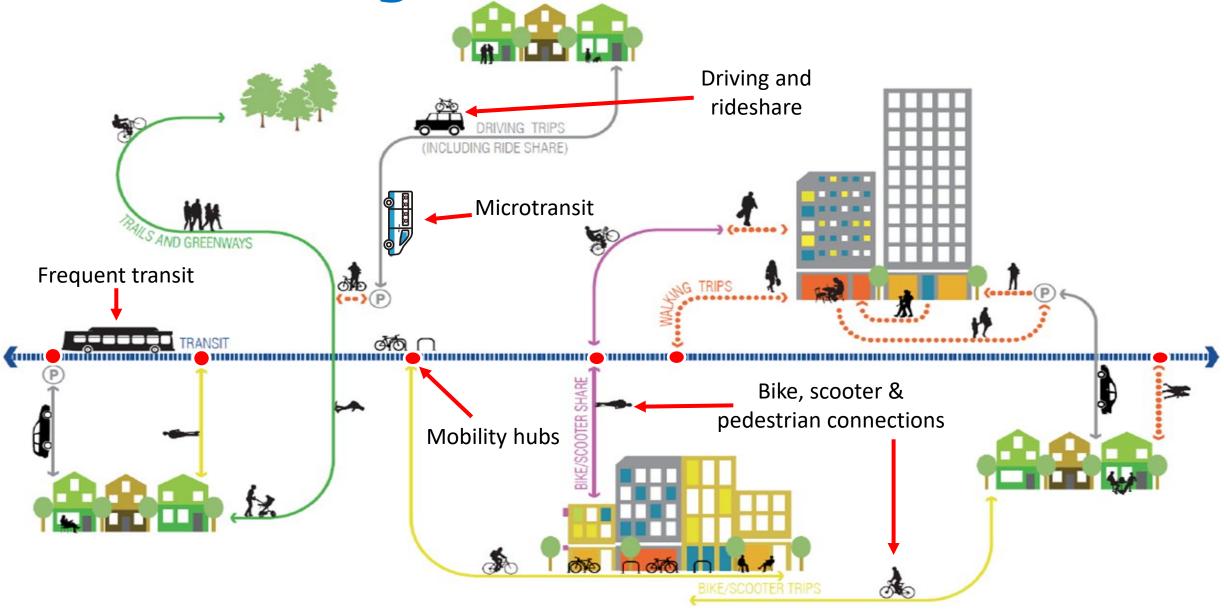


PHASE Two: On Demand Pilot



PHASE THREE: Implementation Strategy

Building a Connected Network

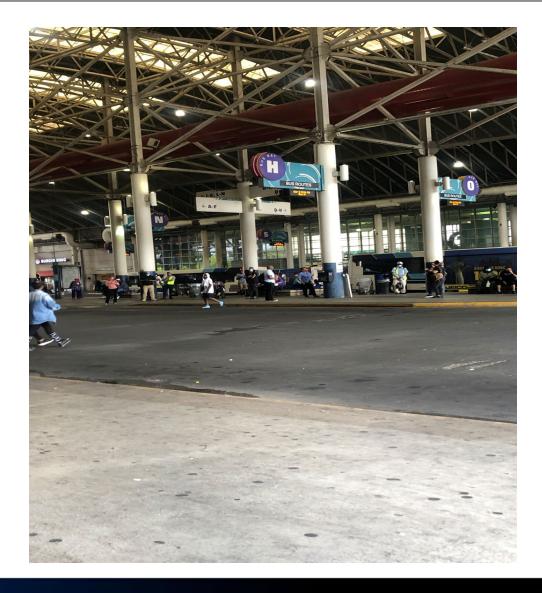






Charlotte Transportation Center

- Continuity in Service via a Temporary Facility
- Elevate the Transit Rider Experience
 - ✓ Comfortable, Climate Controlled Space
- Safety and Security is Top Priority
 - ✓ Controlled access to transit space
 - ✓ Minimize Pedestrian and Vehicle Conflicts
- Easy and Convenient Transit Connections
 - ✓ Central Mobility Hub for Bus, Light Rail, Streetcar
- Sustainable Design
 - ✓ LEED Certified and/or Envision Certification
 - ✓ Battery Electric Bus Hub
- Integrated with Mixed Use Development
 - ✓ Create an Active, Vibrant Place







City Council Next Steps

September

• 9/26: Presentation to Council

October- December

- 10/6-10/26: Public Outreach and Stakeholder Engagement
- 11/7: Convene with Transportation, Planning, and Development Committee



- 11/14: Report Back to City Council on Further Evaluation of Options; forthcoming Memorandum of Understanding
- 11/16 MTC Update





Battery Electric Bus Pilot Program

- Launched our first battery electric bus (BEB) program with eTransEnergy, a subsidiary of Duke Energy, on Earth Day of this year.
- Program will allow CATS to collect data and assess vehicle performance while operating across the transit system.
- Supports our Strategic Energy Action Plan (SEAP) which strives to have city fleet and fueled by 100 percent zero-carbon sources by 2030, sets a community-wide goal for Charlotte to become a low carbon city by 2050.
- Program time is 18 months and includes 18 BEBs, ten charging stations;
 currently have 12 BEBs in service with remaining six anticipated by end of 2022.
- Initial deployment to Bus Routes in the Wilkinson Blvd, South Tryon St, and Monroe Rd. Today the vehicles operate in over 20 routes across the system

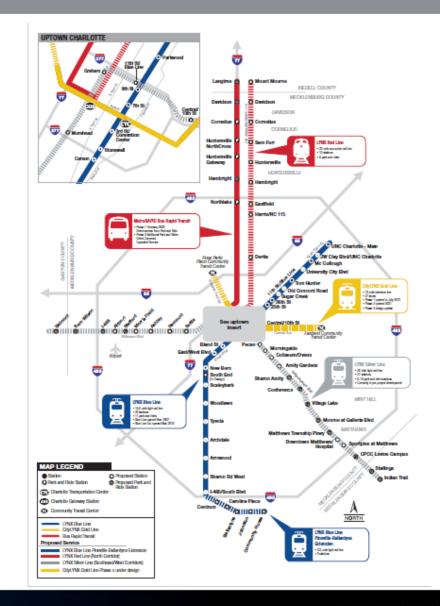


- Experienced successful implementation to date with various learnings across the board, seeing vehicles ranges of up to and above 150 miles to date and will continue to push the range limits on these vehicles.
- Selected STV as our partner to support us in the development of our first Zero Emission Vehicle Transition Plan, which will include revenue and non-revenue vehicles.
- Joined the Federal Transit Administration's Healthy Planet Challenge with other transit agencies also working toward a zero-emission transition.
- Currently budgeted for additional BEBs in FY23 budget, continuing transition to zero carbon sources for our fleet.



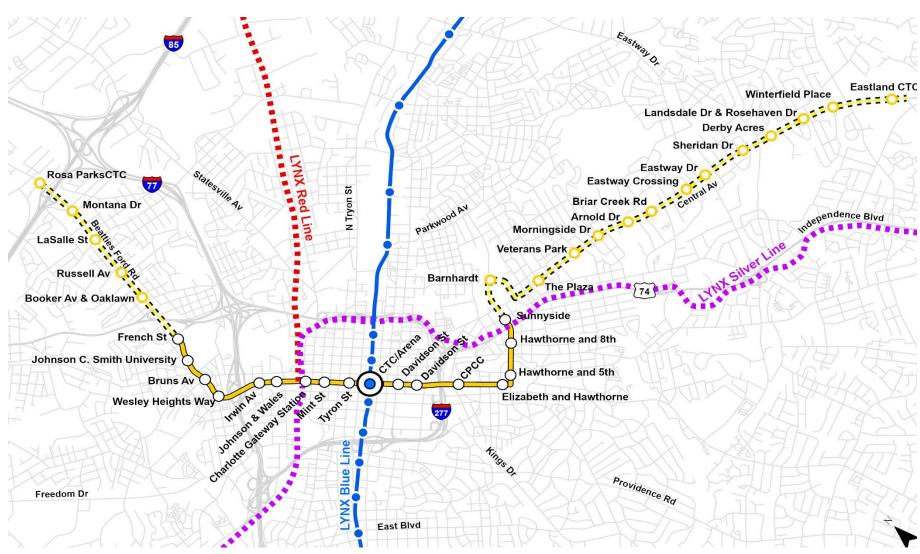
2030 Corridor System Plan

- LYNX Blue Line Light Rail
 - South Corridor 2007
 - Northeast Corridor 2018
 - Future Pineville/Ballantyne Extension
 - New South End Station
- CityLYNX Gold Line Streetcar
 - Phase 1 2015
 - Phase 2 2021
 - Phase 3 Design and environmental study
- LYNX Silver Line Light Rail (Southeast & West)
 - 29 miles across three counties
 - Currently in Design
 - Center City alignment evaluation
- North Corridor Strategy
 - MetroRapid I-77 BRT Phased Implementation
 - LYNX Red Line Commuter Rail—Continue NS Discussions





Advancing the CityLYNX Gold Line





Gold Line Improvements

Operational Challenges

- COVID related labor shortages
- Illegal parking conflicts
- Need for improved reliability







Short-Term Improvements

Supplemental Pavement Markings and Signage





Added Signal Priority at:

- French Street End of Line
- Elizabeth and Hawthorne Intersection
- Sunnyside End of Line

Increased Enforcement

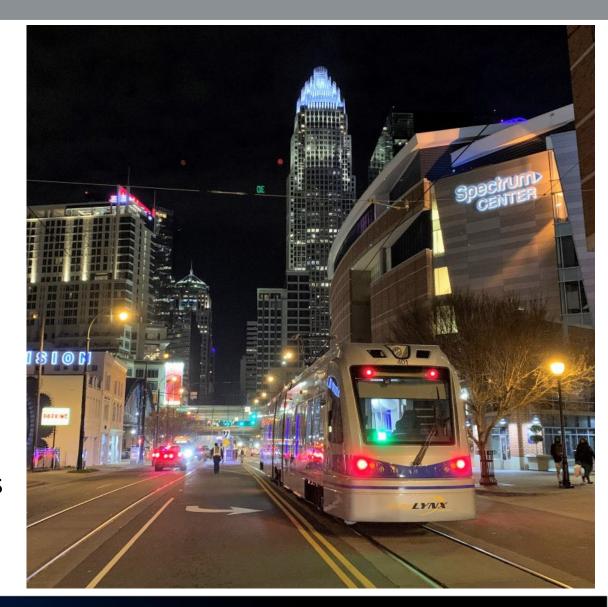
- CATS Safety and Security Staff trained to write parking citations
- Reported illegal parking ticketing and towing is continuing
- CATS acquiring contract with towing vendors to target increased enforcement along the corridor
- Targeted ticketing and towing will proceed once signage and pavement markings are complete this month



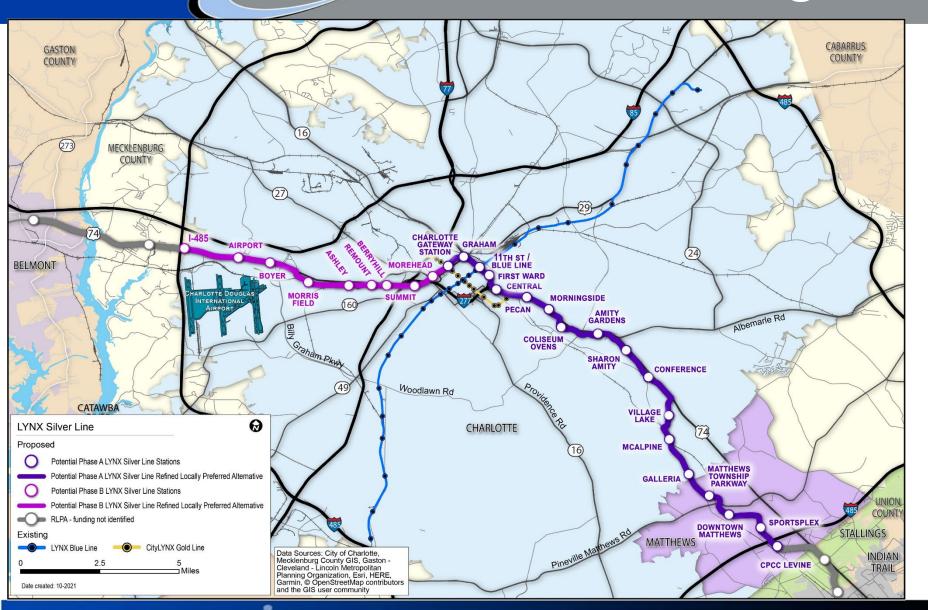


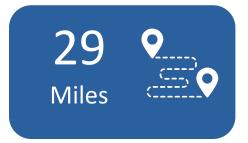
CityLYNX Gold Line Phase 3

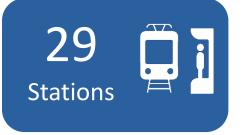
- Design and Environmental Study
- Evaluate Alternatives along Trade St., Central Ave., and Beatties Ford Rd.
 - Exclusive and Semi-Exclusive Streetcar Lanes
 - Signal Priority, Queue Jumpers
 - Length of streetcar line/terminus
 - Evaluate benefits to transit reliability and ridership, and estimate cost
 - Traffic analysis to determine impact on autos



Advancing the LYNX Silver Line









Where Are We?



Planning / Pre-Project Development (2020-2024)



Project Development

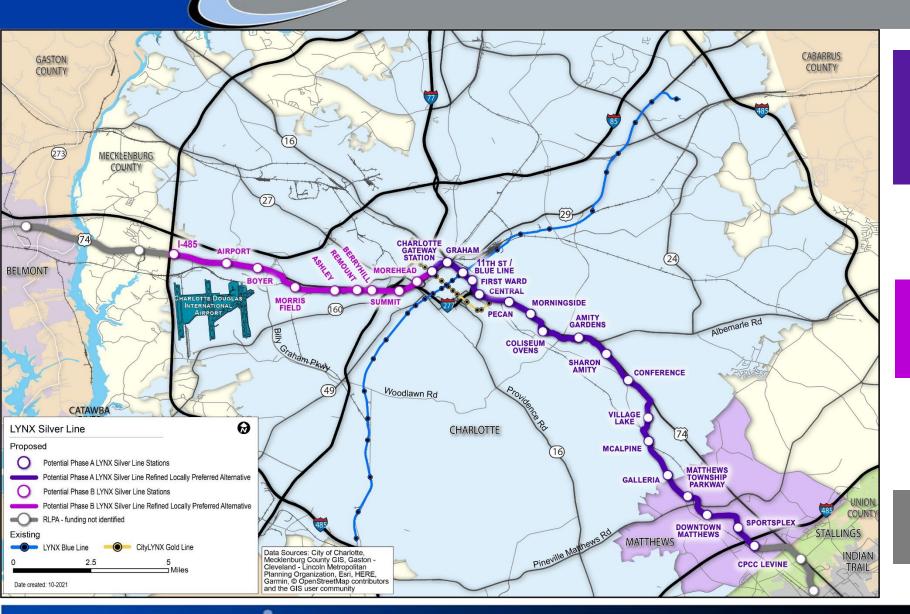
- LPA Refinement & TOD Opportunities
- **Early Scoping**
- LPA Refinement
- Technical Studies, Station Area Planning, and Rail-Trail Plans
- Preliminary Design / Environmental Field Work
- Notice of Intent/Scoping
- Draft Environmental Impact Statement (Anticipated)

- Final Environmental Impact Statement & Record of Decision (Anticipated)
- 65% design plans
- Cost estimate

Project Engineering & Construction

Public Engagement

LYNX Silver Line Phasing Strategy



Phase A: Southeast
Charlotte Gateway Station to
CPCC Levine

Phase B: West
Charlotte Gateway Station
to I-485

Other Phases
Regional Funding Required

Advancing the North Corridor

DAVIDSON CHARLOTTE

Short Term

 Express lane bus service improvements to include more frequent and direct service

Medium Term

- Implementation of an I-77 Bus Rapid Transit service from Charlotte Gateway Station to Mooresville to include:
 - All day service including nights and weekends
 - Four new park and rides and two new express lane direct connects
 - Integrated BRT stations into mixed use developments that also incorporate emerging mobility technologies for first/last mile.
- North Corridor BRT Study completed in 2021

Long Term

- Continued dialogue with Norfolk Southern on use of the "O" Line corridor for commuter rail
- Red Line Study to be initiated



Charlotte Gateway Station

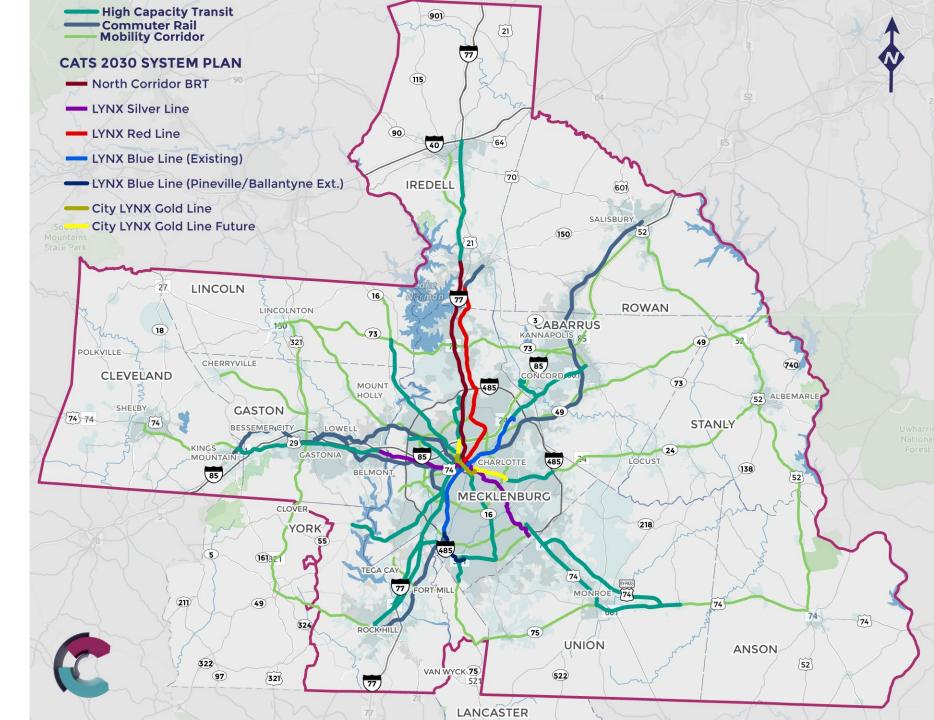
- City/NCDOT/private partnership for a Multimodal transit hub and destination center
- Connections to Amtrak, Greyhound, CATS bus service, LYNX Silver Line light rail and CityLYNX Gold Line streetcar
- Phase 1: Rail Infrastructure
 - Broke ground July 2018; completion scheduled for December 2022
- Phase 2: Private Development Partnership
 - Preliminary design early 2023
 - Developer Agreement late 2023





2030 Transit Plan serves as the foundation for Connect Beyond









Questions?