

Chapel Hill  
**transit**

**NORTH**  
**SOUTH** **BUS RAPID TRANSIT**



## Progress & Funding Update

Chapel Hill Town Council  
November 16, 2022





# AGENDA

- North-South Bus Rapid Transit (NSBRT)
- Transit oriented development (TOD) & LUMO
- Funding update



# NSBRT IS...

More than just “better”  
bus service.

NSBRT is a landmark investment in Chapel Hill’s  
transportation future.

## PROJECT BENEFITS



Eubanks Road Park & Ride to  
Southern Village Park & Ride (8.2  
miles)



Dedicated, curb running transit  
lanes\*



7-minute headways at peak times



17 world class stations with cutting  
edge amenities



Multiuse path with connections to  
greenway network



Faster, more reliable transit access  
to local and regional employment  
centers

*\*Where right of way allows*



# NSBRT IS...

14+ years of ideas, analysis, studies, plans, conversations, dedication, and investment

- 2008** Identified as a priority in Long Range Transportation Plan
- 2011** North-South BRT Alternatives Analysis completed  
Project Purpose & Need Statement adopted
- 2014** Initial Locally Preferred Alternative (LPA) adopted by Town Council
- 2016** NSBRT approved for entry into FTA project development
- 2019** Updated LPA adopted by Town Council
- 2020** FTA Small Starts Rating Released for NSBRT  
Town Council Adopts Final LPA  
NSBRT 30% Design Completed; NEPA initiated



# NSBRT IS...

14+ years of ideas, analysis, studies, plans, conversations, dedication, and investment

- 2021** CHT awarded FTA grant to develop TOD plan for NSBRT station areas (\$592,000)
- 2022** TOD planning begins  
NSBRT 60% Design initiated
- 2023** (February) TOD implementation plan presented to Town Council for consideration of adoption as an amendment to Comprehensive Plan  
(August) CHT requests Small Starts Grant Agreement from FTA; NSBRT receives updated project rating as part of FTA review process

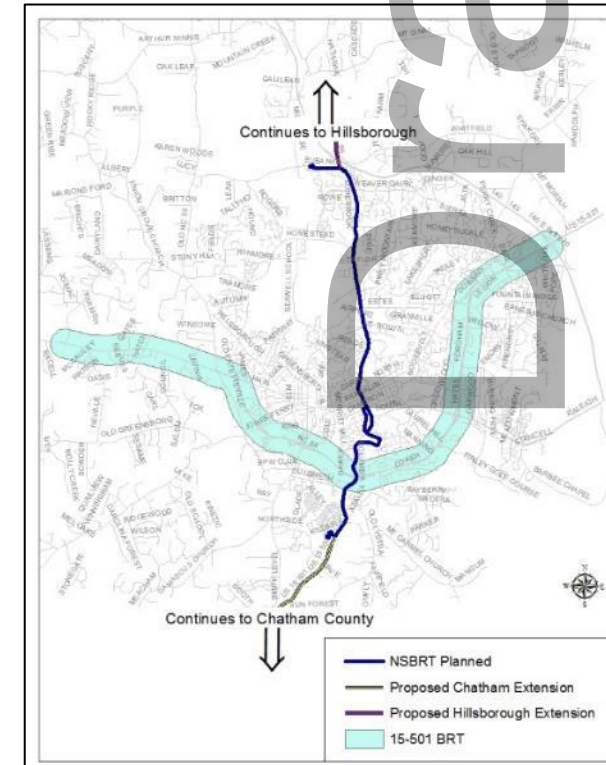
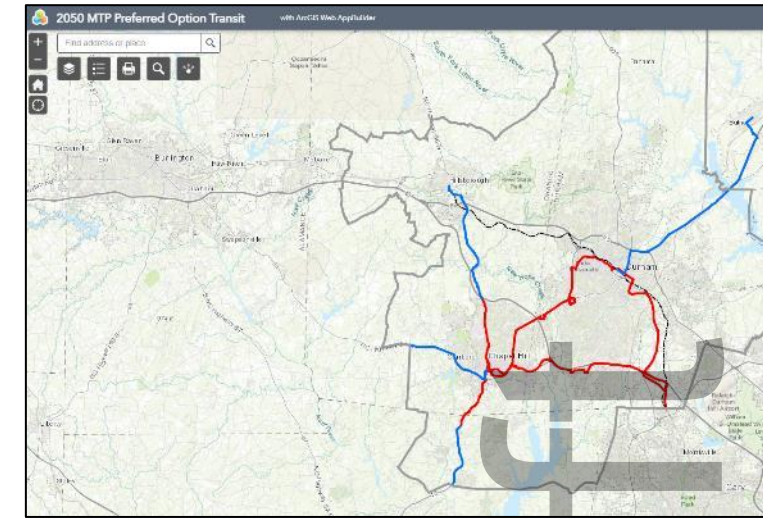
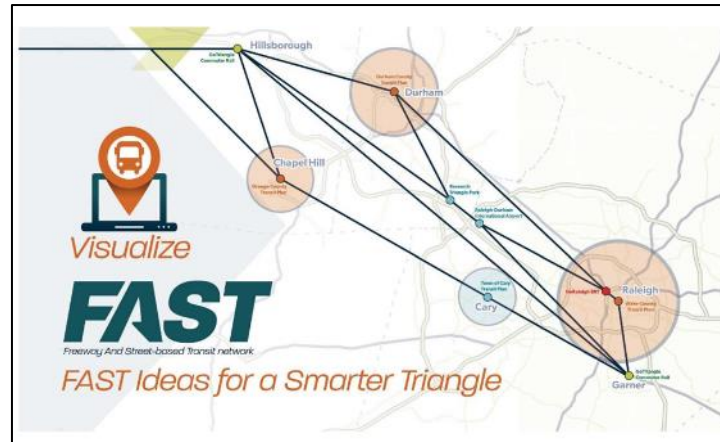
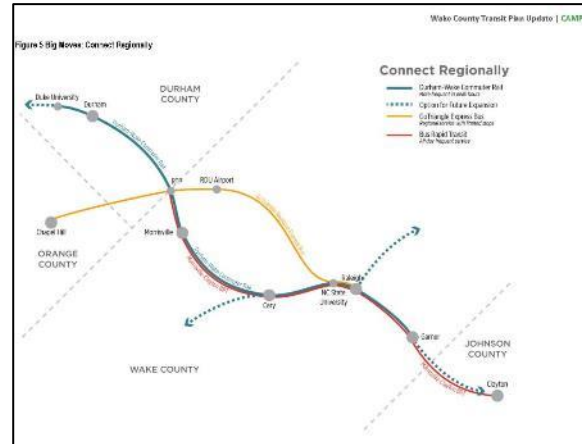
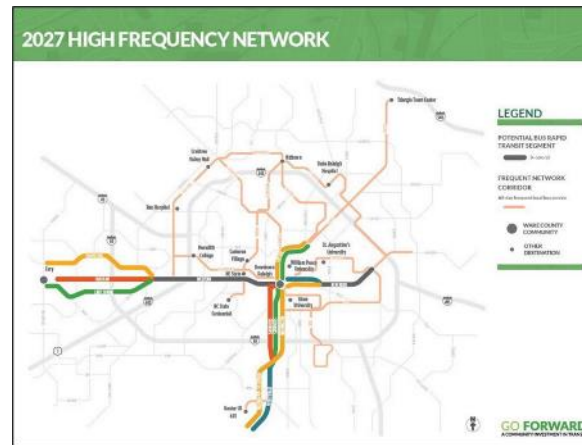




# NSBRT IS...

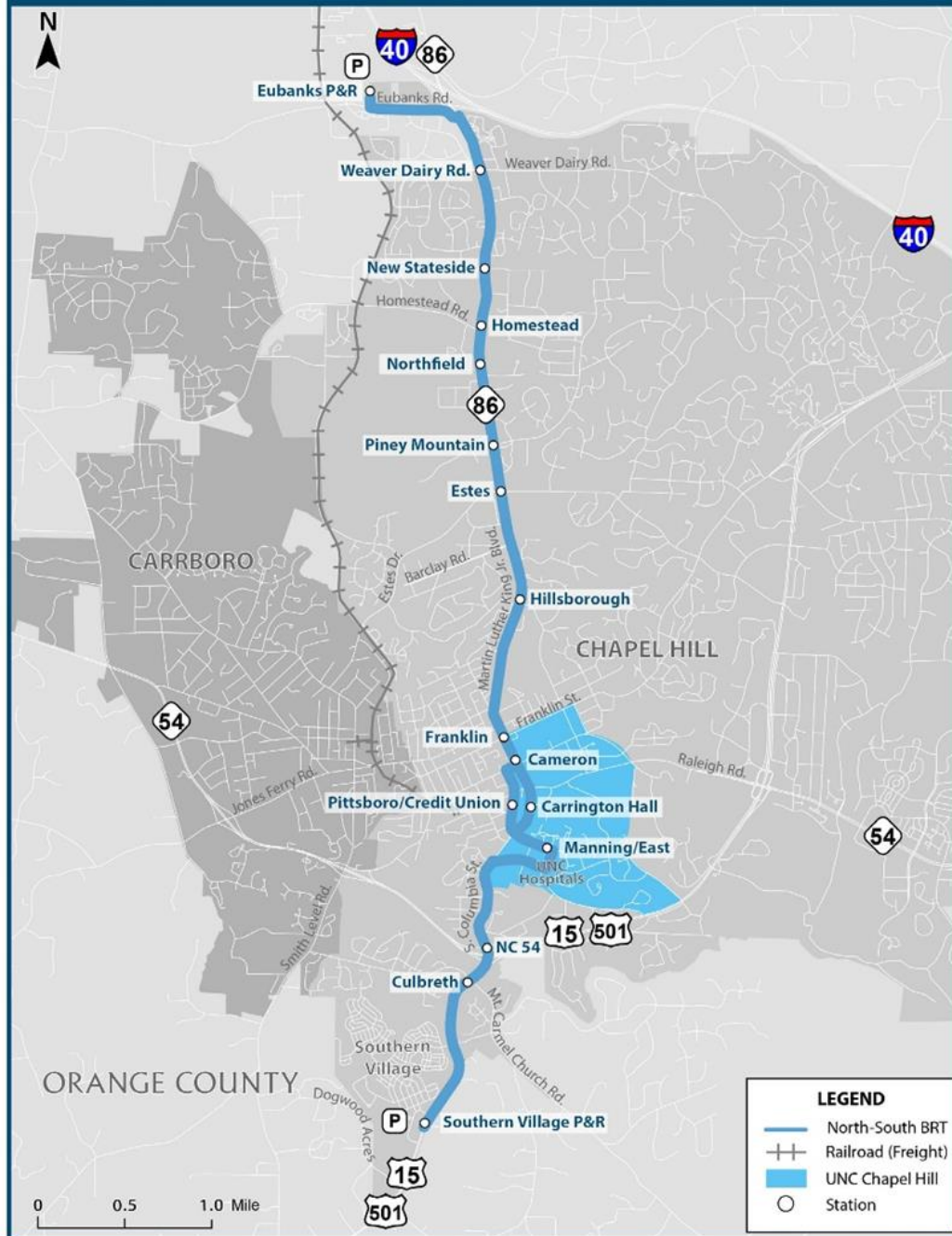
A critical element of the region's future high frequency transit network, potentially connecting to...

Durham  
Hillsborough  
Chatham County  
RTP & Regional Transit Center  
RDU  
Raleigh's BRT network  
Mebane/ Alamance County  
Cary  
Triangle Commuter Rail  
And beyond...



## North-South BRT Project

Chapel Hill, North Carolina



# NSBRT IS...

## Preparing Chapel Hill for the future and meeting the transportation challenges of today.

- ✓ Supporting regional connections
- ✓ Augmenting the community's off-street travel network with a new greenway along most of the BRT corridor
- ✓ Supporting the Town's ambitious climate action goals
- ✓ Investing in flexible, resilient, affordable transportation options
- ✓ Responding to growing and changing mobility demands
- ✓ Promoting sustainable development in transit corridors
- ✓ Increasing transit system capacity
- ✓ Maintaining high levels of service and reliability
- ✓ Enhancing multimodal transportation infrastructure

# NSBRT IS...

## Moving quickly towards a major milestone.

↓ TOD Station Area Concepts & Implementation Plan (2022-23)

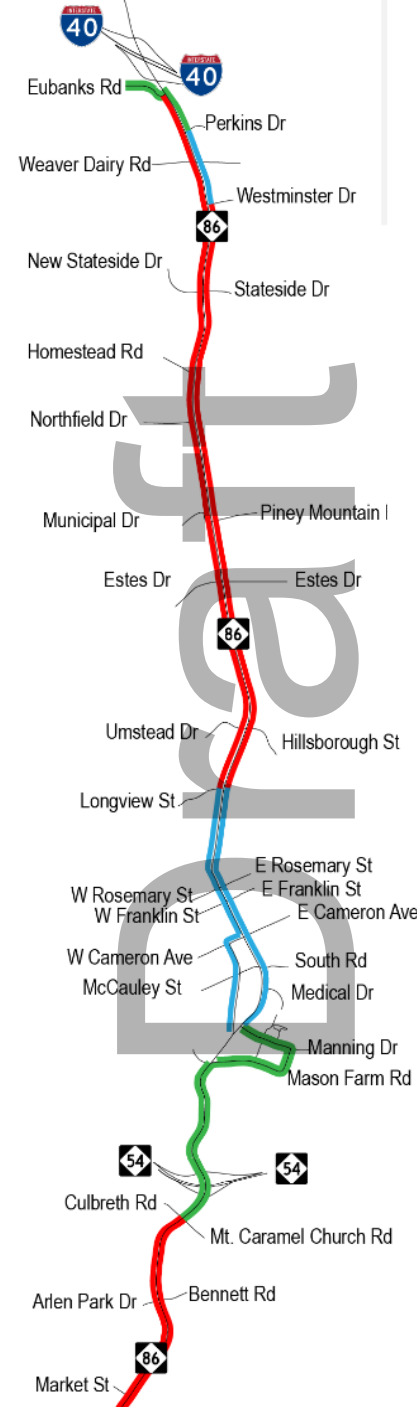
↓ 60% Design (2022-23)

↓ Naming Rights Study (2022-23)

★ ↓ **Request FTA Project Rating (Aug. 2023)**

↓ Begin construction (est. 2026)

✓ **Begin service (est. 2028)**





# FUNDING UPDATE



**Total estimated NSBRT project cost:**  
\$155,000,000 (no changes)

## UPDATED cost share assumptions:

- ⬆ Federal: **\$124,000,000** (was \$100M)
- ⬇ Local: **\$31,000,000** (was \$55M)

## UPDATED committed local funding:

- ⬆ Orange County Transit Plan: **\$29,100,000** (was \$14.1M)

## Additional amount needed to submit request for funding to FTA:

- ⬇ **\$1,900,000** (was \$40.9M)

NSBRT

FUNDING

TOD

## HOW WE CLOSED THE GAP

- Bipartisan Infrastructure Law raised the "Small Starts" maximum federal contribution from \$100M to \$150M
- Allows CHT to request \$124M from FTA (80% of project cost), reduces non-federal share to \$31M
- Orange County Staff Working Group approved an additional \$15M in transit plan funding (in addition to \$14.1M already committed)\*

\*CHT will also request \$40M from State during next SPOT funding cycle and continue to investigate/identify additional sources of funding for NSBRT, to reduce impact on OCTP

# TOD...

## Supports a Complete Community.



COMPLETE  
COMMUNITY  
STRATEGY

### Anatomy of a Complete Community



### TRANSIT ORIENTED DEVELOPMENT



MIX OF USES



VIBRANT  
PUBLIC REALM



DIVERSE HOUSING



GREEN



ACCESSIBLE



MULTIMODAL



SUSTAINABLE



CONNECTED



# TOD...HOUSING

Transit & Affordable Housing  
Future Policies & Programs

Implementation Strategies  
Housing Toolkit

## TRANSIT & AFFORDABLE HOUSING

Locating affordable housing near transit reduces the two largest expenditures for most households

- Locating affordable housing near transit reduces the two largest expenditures for most households – housing and transportation costs.
- Households along the proposed BRT route could use these savings to increase their spending on goods and essential services, plan for large or unexpected expenses, and/or build household wealth.
- Nearly six out of ten renter households in Chapel Hill are cost-burdened. The North-South BRT and TOD work along the Corridor is an opportunity to address ongoing affordability challenges experienced in Chapel Hill.
- The programs, policies and strategies implemented within the TOD station areas could be extended Town-wide to address affordability challenges in a variety of local contexts.

### CHAPEL HILL COST BURDENED HOUSEHOLDS

#### OWNER HOUSEHOLDS



**19%**  
Owner Households  
Cost Burdened

#### RENTER HOUSEHOLDS



**58%**  
Renter Households  
Cost Burdened

#### HOUSEHOLDS EARNING <\$35K



**89%**  
Households Earning <\$35K  
Cost Burdened

Leverages proximity to high-capacity transit, supporting vibrant, livable, equitable, sustainable, multimodal, mixed-use neighborhoods.

NSBRT

FUNDING

TOD

## WHAT WE'VE HEARD.

### Affordable Housing

- Tremendous and growing need
- Need for all housing types
- People are being displaced.
- Entitlement process is burdensome
- Preserve naturally occurring affordable housing
- Need workforce housing for university and health center workers

## WHAT IS TOD?



MIX OF USES



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# TOD...ACCESSIBILITY

## Transportation Equity Analysis

## Equitable Transportation Investments

## Priority Station Areas

- ❑ Demographics, Income levels data , Cost Burdened household data, vehicle ownership data
- ❑ Bike and Ped Crash Data
- ❑ Mobility Audit completed in April 2022
- ❑ Pedestrian and Bike Network gaps and barriers
- ❑ Studies previously done by Chapel Hill....**Mobility and Connectivity Plan** as a leading resource
- ❑ Easy access to service within 5–10-minute walk or bike ride
- ❑ Multi-modal connectivity, to and between, transit modes
- ❑ Incorporation of Complete Streets Principles
- ❑ Enhanced accessibility and universal design, ensuring that transportation systems and services accommodate people with diverse needs and abilities

NSBRT

FUNDING

TOD

## WHAT WE'VE HEARD.

### Connectivity

- An equitable approach to movement
- Intersections need to become more pedestrian friendly
- Bike and walking corridors, passive bike routes
- Shaded, screened pedestrian and bike routes are needed.
- Love the proposed greenways and increased connectivity

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# TOD...ACCESSIBILITY

## Transportation Equity Analysis

## Equitable Transportation Investments

## Priority Station Areas

- Priority Accessibility Locations are organized and based on gaps, barrier types, demographics data, cost burdened analysis and median income data with the goal to help Chapel Hill with **prioritization of projects** in future.
- Prioritizations are focused on populations along N-S BRT Corridor and Focus Areas with greater needs or preferences for bicycling and walking, including "last mile" trips to access transit.
- Priority Accessibility Locations are recommended in areas of the N-S BRT corridor where a large number of households have low rates of vehicle ownership and lower incomes, may need more transit service to link residents to jobs and services, as well as bike and pedestrian connections to transit.

NSBRT

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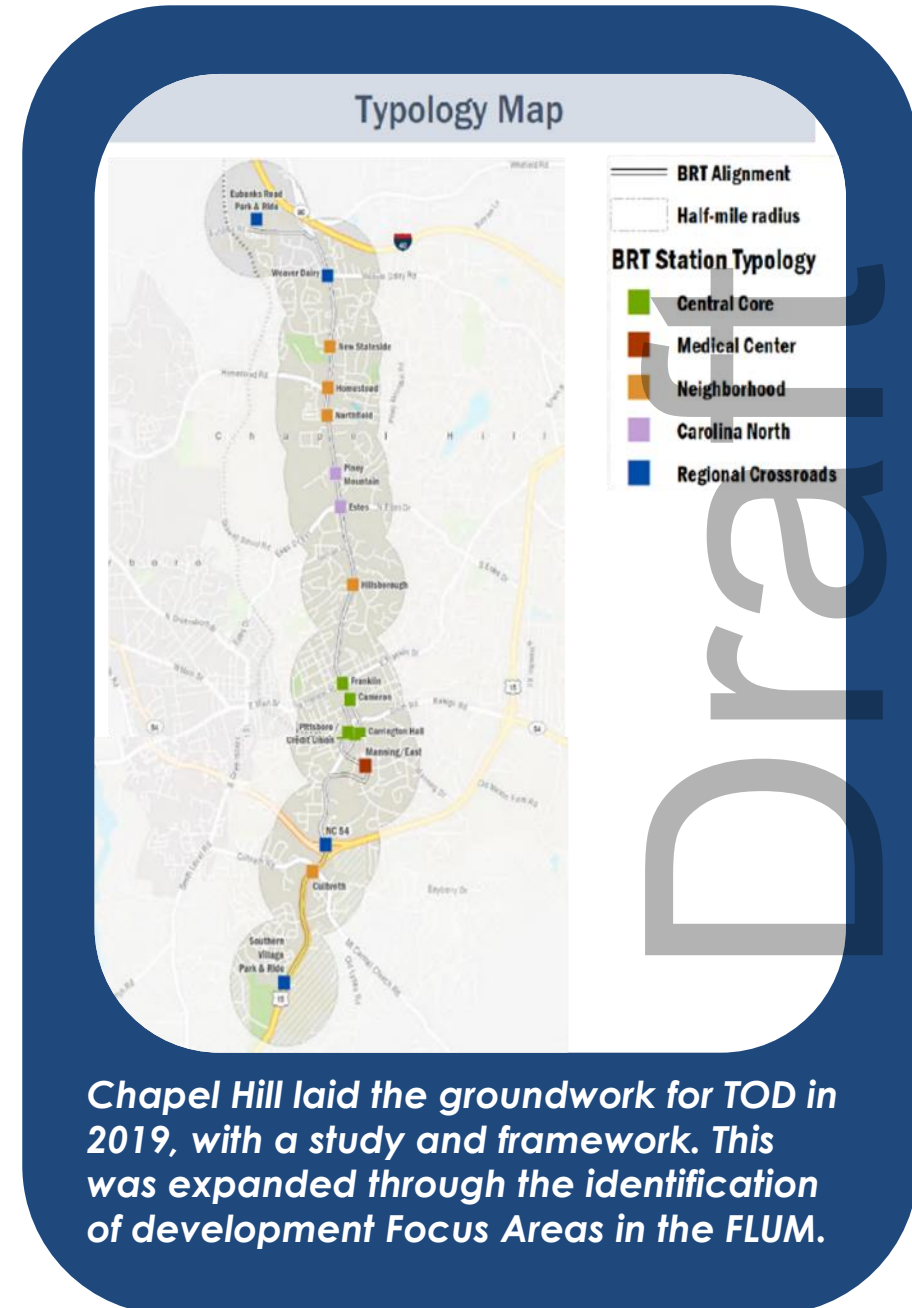


CONNECTED

# TOD...

## Requires visioning, planning, guiding policies, and implementation mechanisms.

- NSBRT's lowest rated FTA criteria was "Transit Supportive Plans & Policies" based on a **lack of "implementation techniques or mechanisms"** and **"limited regulatory and financial incentives"** promoting transit supportive development
- This criteria rating is easily improved by adopting policies and regulatory tools supporting TOD in the NSBRT corridor (and other future transit corridors)
- **But, to increase NSBRT's project rating, policies and regulations to *implement* and *incentivize* TOD would need to be adopted before next rating (when full funding request is made to FTA in Aug. 2023)**





# TOD & THE LUMO

Plan Alignment

Culture

Content

## Plan Alignment

### FINDINGS:

- The comprehensive plan lacks the vision and priorities needed to drive the standards in the LUMO--*if everything is a priority, nothing can be a priority*
- The LUMO has not been updated to reflect FLUM - heights and building typologies are indicated in Focus Area policy, but not expressed in the code / regulations
- The LUMO is effectively acting as a de facto plan that is reactive and site-specific rather than comprehensive. It is unpredictable, and ineffective in achieving desired land use patterns that promote transit, affordable housing, and other outcomes that create resilience and equity

NSBRT

FUNDING

TOD

### WHAT WE'VE HEARD.

#### Development Decision Making

- Development review process needs streamlining
- Entitlement process is burdensome, drives away affordable housing developers
- Have more idea meetings for transparency – share the process in many ways to residents
- Create systems for building with equity- not just talking about it

### WHAT IS TOD?



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SUSTAINABLE



CONNECTED

# TOD & THE LUMO



Plan Alignment  
Content  
Culture

## LUMO Content

### KEY FINDINGS:

- Zoning and development review is focused on the process, not product
- Conditional zoning is used too often and creates create uncertainty for applicants
- The 20,000-square-foot threshold has unintended consequences
- The concept development plan requirements, while well intentioned initially, are onerous and expensive
- Most processes are linear, allowing little concurrent review or coordination
- Professional planning staff are underused, often serving in clerical rather than advisory roles



## WHAT WE'VE HEARD.

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CONNECTED

# TOD...WHAT WE'VE HEARD

## Growth Potential

- The nature of remaining sites is shifting as the town has built out
- Growth needed to achieve community goals
- A strategy for high quality re-use and in-fill is needed

## Single Family Zoning

- It's exclusionary
- People value their low-density, treed lots
- Eliminate Single Family Zoning in the TOD area

## Downtown

- Needs a stronger experience
- Gaps in services typically found within Downtowns
- Too many parking lots
- Residential density will support businesses
- Include community services

## Development Density

- Development that enriches people's quality of life – density developed with equitably and to deliver benefits
- Regulations need to be updated to achieve goals

## Affordable Housing

- Tremendous and growing need
- Need for all housing types
- People are being displaced.
- Entitlement process is burdensome
- Preserve naturally occurring affordable housing
- Need workforce housing for university and health center workers



# TOD...WHAT WE'VE HEARD

## Design Character

- Recognize character of Chapel Hill, and the uniqueness of each place
- Define new typologies that respond to this
- Tree cover and habitat corridors should be maintained
- Need better “green avenues” more trees with new development
- Quality BRT stations
- Well-lit transit stops with shade
- Importance of places for people to gather – indoor and outdoor shared spaces.

## Connectivity

- An equitable approach to movement
- Intersections need to become more pedestrian friendly
- Bike and walking corridors, passive bike routes
- Shaded, screened pedestrian and bike routes are needed.
- Love the proposed greenways and increased connectivity

## Open spaces

- Improve park and greenway access across the town
- Create parks with lots of amenities

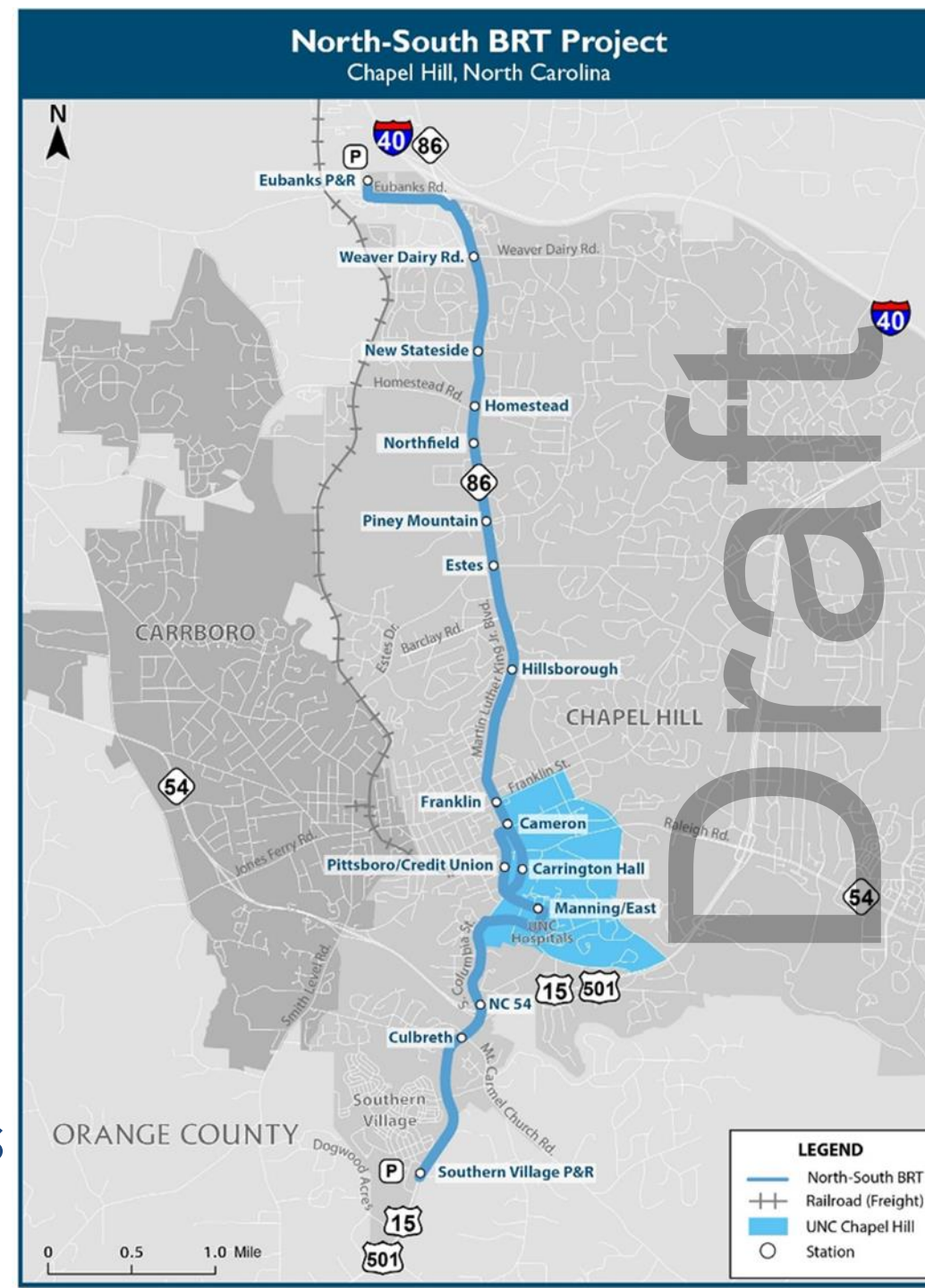
## Development Decision Making

- Development review process needs streamlining
- Entitlement process is burdensome, drives away affordable housing developers
- Have more idea meetings for transparency – share the process in many ways to residents
- Create systems for building with equity- not just talking about it

# RECAP

## NSBRT is...

- A **landmark investment** in Chapel Hill's transportation future and the product of 10+ years of planning and investment
- A **critical element** of the region's future transit network
- A pathway to achieving a more **Complete Community**
- Financially **positioned for success**
- Leading by example as the **only** BRT project in a community of our size in FTA's project development pipeline



# RECAP

## NSBRT is also...

- **Competing** against national and regional projects for the same funding sources
- **Building confidence** in our region's capacity to successfully manage and implement major transit projects
- Dependent on **high project ratings** to remain competitive and retain our position in the federal funding pipeline
- **Moving quickly** towards the next major project milestone and rating opportunity (August 2023)

## REGIONAL SMALL STARTS PROJECTS

**Wake BRT: New Bern Ave** (awarded full funding awarded Aug. 2022)

**Wake BRT: Western Blvd.** (submitting funding request Fall 2023)

**Wake BRT: Southern Corridor** (submitting funding request Fall 2022)

**Wake BRT: Northern Corridor** (MIS commenced in Spring 2022)

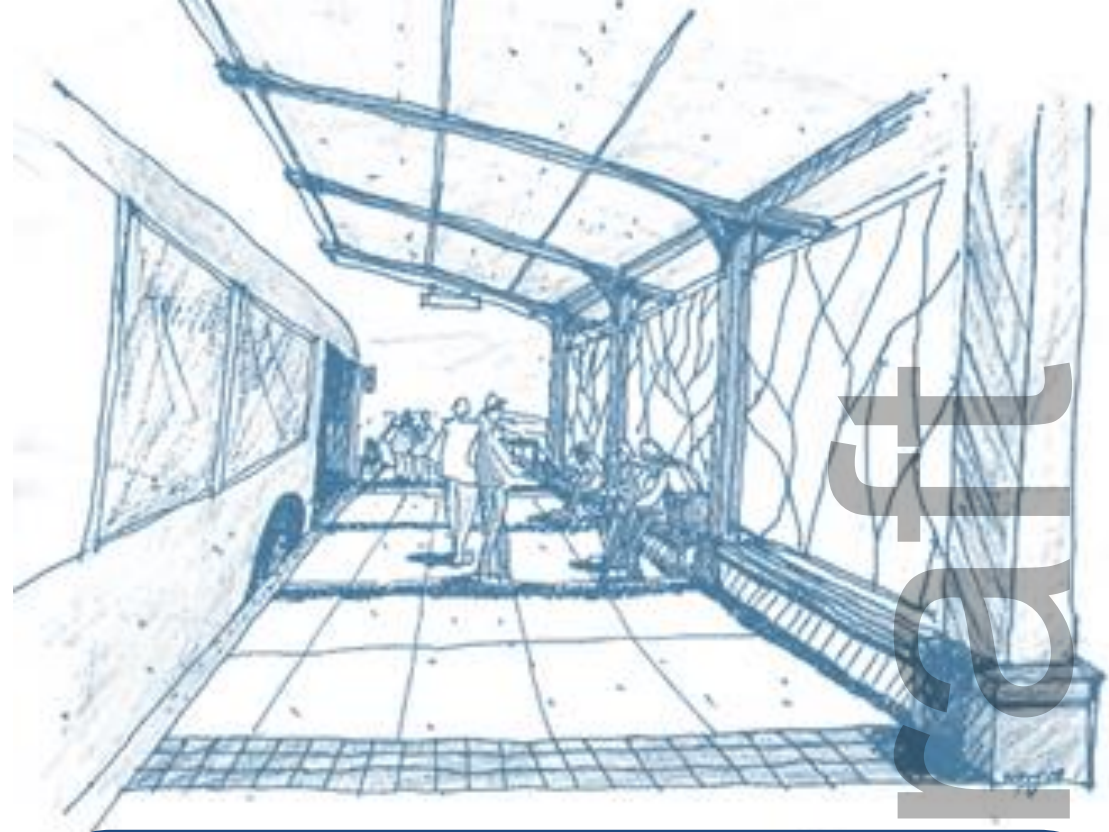
**Wake BRT: Rapid Bus Extensions and Transit Priority Treatments MIS** (studying extensions to Western Blvd. and Southern Corridor BRT projects and transit priority treatments between Cary and RTP and Garner and Clayton)



# NEXT STEPS



- **Orange County Transit Plan review and adoption** (Orange County BOCC, DCHC MPO, GoTriangle), Nov-Dec. 2022
- Continue **NEPA** and **60% design** efforts, 2022/23
- Finalize and review **TOD station area concepts and implementation plan** Nov. 2022-Jan. 2023)
- Prepare request for **FTA Project Rating** from FTA, Jan-Jul 2023
- Town Council **considers TOD plan and implementation recommendations for adoption**, Feb. 2023
- CHT **submits FTA Project Rating** to FTA, Aug. 2023



**Matt Cecil**  
**Transit Development Manager**  
**Chapel Hill Transit**  
(919) 969-4916 | [mcecil@townofchapelhill.org](mailto:mcecil@townofchapelhill.org)



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Customer Service Line: (919) 485-7433

# NEXT STEPS



## Council Engagement

	October 2022	November 2022	December 2022	January 2023	February 2023
COUNCIL INFORMATION		<div>November 2 RM</div> <div>Complete Community Proposed decision points and pilot project approach.</div>	<div>December 7 RM</div> <div>TOD/LUMO Draft Implementation Plan and LUMO rewrite approaches.</div>	<div>January 18 WS</div> <div>PSE Present emerging directions.</div> <div>TOD Present Station Area and Focus Area plans.</div>	<div>February - First Regular Meeting -</div> <div>LUMO Present Draft Code Diagnosis Report.</div>
COUNCIL DECISIONS		<div>November 16 RM</div> <div>Complete Community Submit Pilot Project and Framework.</div> <div>TOD/LUMO Update</div> <div>November 30 Council Special Meeting Planning Systems Evaluation Update</div>	<div>December 7 RM</div> <div>Complete Community Accept Pilot Project</div> <div>Accept Complete Community framework as a part of the Comp Plan.</div>	<div>January 25 RM</div> <div>Accept TOD Implementation Plan/ Final Report</div> <div>Accept PSE emerging directions and revised development review process.</div>	<div>February Last Regular Meeting</div> <div>TOD Resolution - adopt Implementation Plan/ Final Report and Complete Community framework as a part of the Comp Plan.</div>