

#### Raleigh Downtown **Transportation Plan** \_















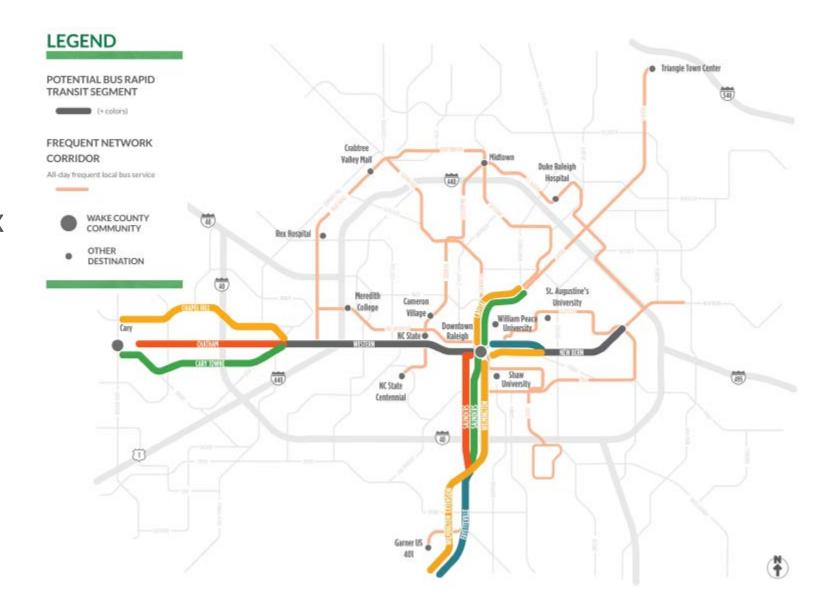




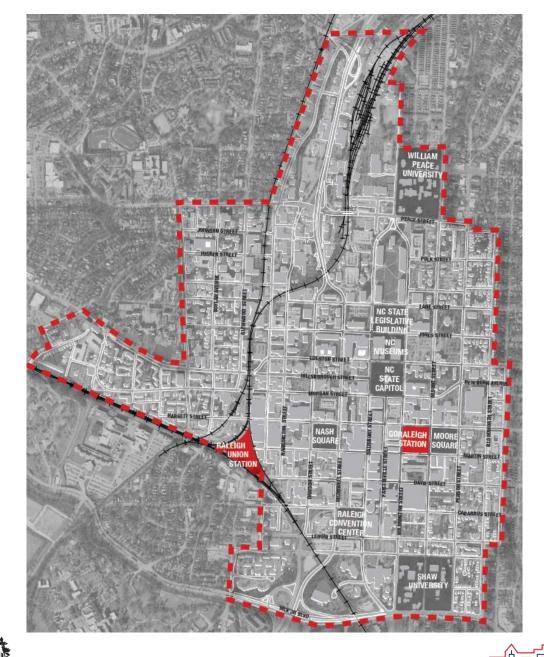


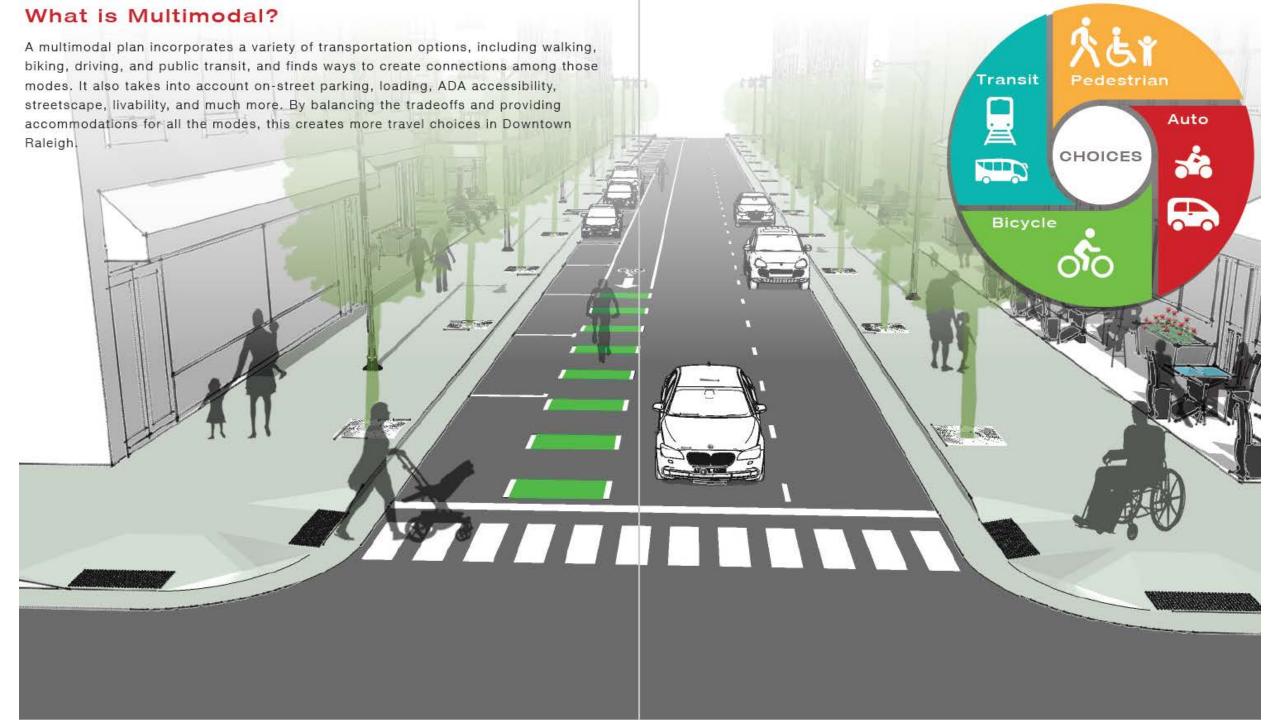
### Background

 November 2016:
 Wake County voters
 approved a transitdedicated ½¢ sales tax



## Study Area





#### What is Bus Rapid Transit?

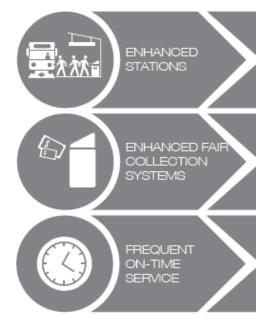
#### What is BRT?

Bus Rapid Transit (BRT) is a bus-based public transportation system that can make your commute easier and more efficient. It's faster than a normal bus, because BRT often operates in its own lane, has priority signaling and makes fewer stops than a normal bus. Typically, fares are collected pre-boarding as to eliminate the delays caused by paying on board.





VEHICLES

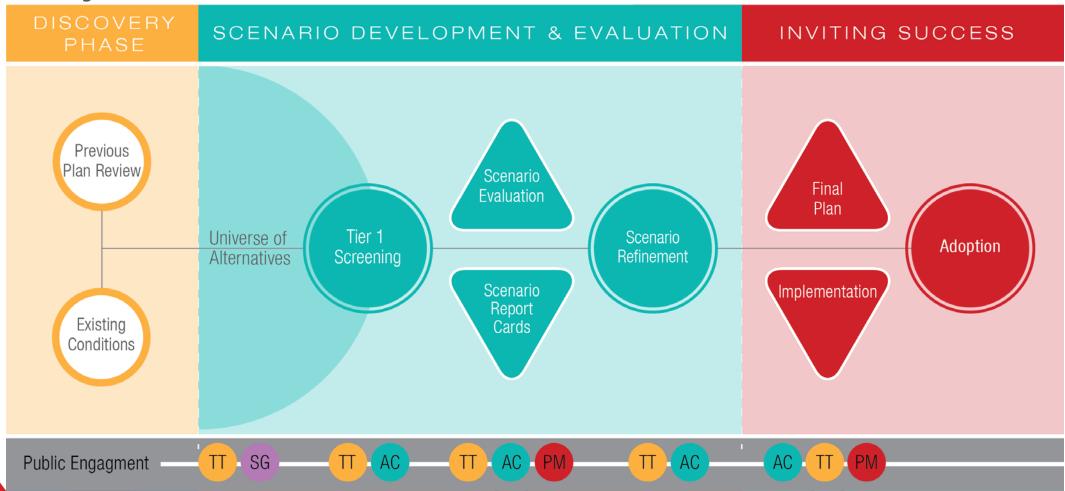








#### **Project Process**







## Who was involved?

- Stakeholder groups
  - CACs, BPAC, Convention and Visitor's Bureau, etc.
- Technical Team
  - City staff, CAMPO, NCDOT, DRA, NCDOT
- Advisory Committee
  - RTA, WakeUp Wake County, local universities, etc.



#### **Public** Outreach





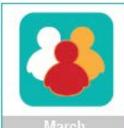


400+ online survey responses

This is a step in the right direction for providing bike and bus options for people.

This would reshape Raleigh in a very positive way.





2 Public Workshops with over

230 attendees

550+

written comments

Good groundwork for future transit!

### **Existing Conditions**



46,300+

employees

6,000+

riders per day at GoRaleigh Station

30+ buses

connecting Downtown to the rest of the City and Region

MOORE SQUARE STATION



\$88 million

investment in Raleigh Union Station



850+ businesses

located downtown



0

~4,000 on-street parking spaces

~19,700 off-street spaces

172 bike racks with room for

13,500+

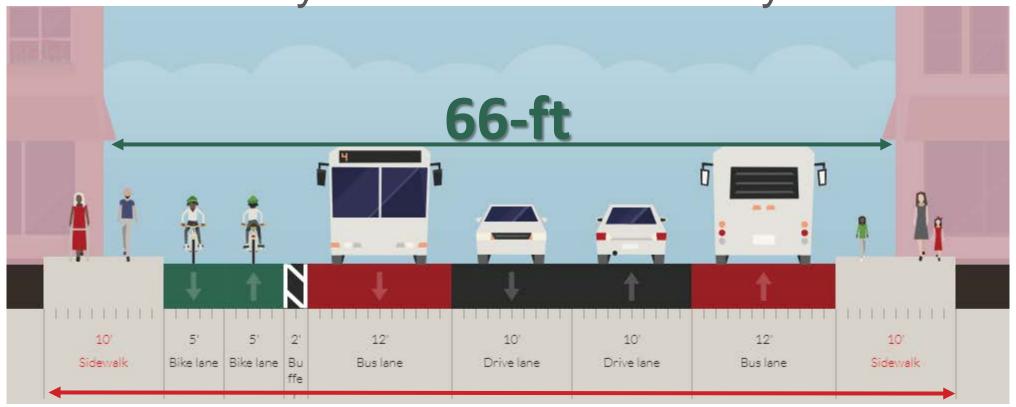
residents

600

bicycles

#### Our Challenge: Trade-offs

Two-Way Street with BRT & Cycle Track



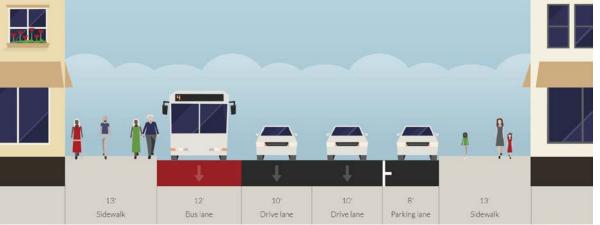


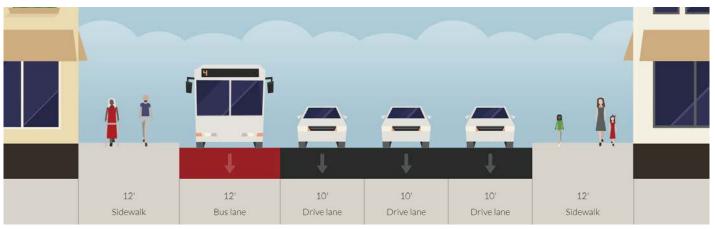


### Our Challenge: Trade-offs

66-ft of right-of-way



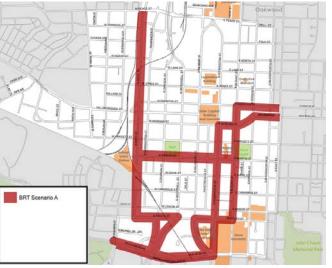






## Scenario Development















# Scenario Development – Bike Networks

Tier 1 Facilities:



Tier 2 Facilities:



# Scenario Development – Bike Networks



#### Scenario Evaluation

- Existing and future population
- Existing and future employment
- Affordable housing
- Community services
- Recreation and entertainment
- Transit hub connections
- Travel time
- Customer experience
- Parking impacts
- Vehicular delay and queuing
- Construction impacts



#### IMPROVE MOBILITY AND TRAVEL CHOICE

#### PROVIDE HIGH-QUALITY BUS RAPID TRANSIT SERVICE





MINIMIZE IMPACTS TO VEHICULAR TRAVEL

PROVIDE COST-EFFECTIVE MULTIMODAL INVESTMENTS



### Scenario Performance Reporting



#### Description:

This scenario predominately serves the East side of Downtown and will provide direct access to GoRaleigh Station. To access the new Raleigh Union Station, BRT customers will need to take a circulator bus or walk approximately 5 blocks. Scenario B provides the most access to existing jobs, and has moderate impacts to current on-street parking and loading zones.

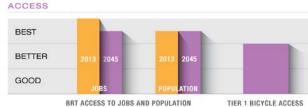
#### Key Facts for Scenario B:

- Requires minimal construction impacts
- · Provides direct access to GoRaleigh Station
- · Access to Raleigh Union Station requires walking or transfer to a circulator bus
- . Traffic impacts are low since BRT in this scenario runs on lower volume streets, resulting in less operational issues

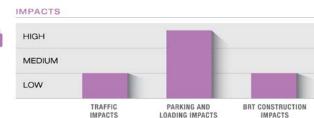
#### Scenario Performance:









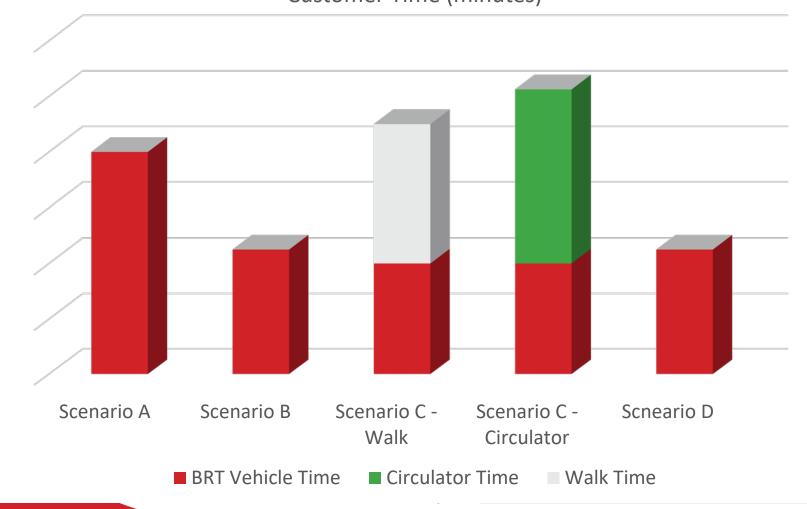


#### Scenario Performance Reporting

#### **BRT Trip Example**

From S. Saunders to GoRaleigh Station

Customer Time (minutes)

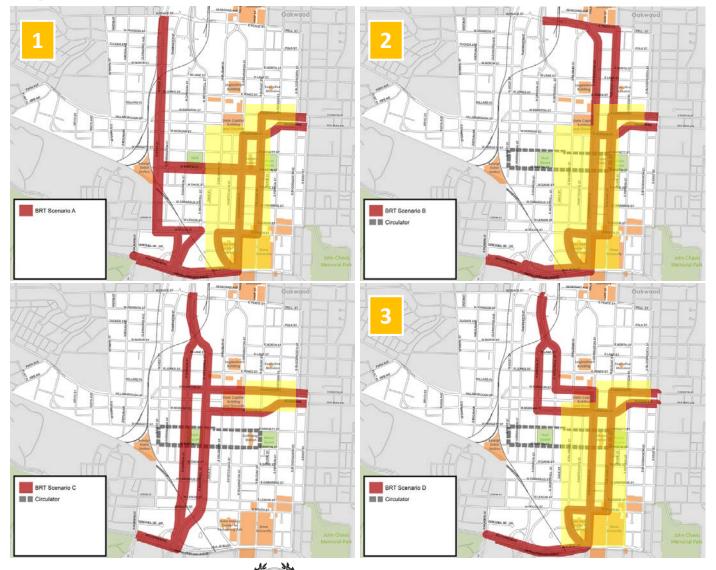


#### **Assumptions:**

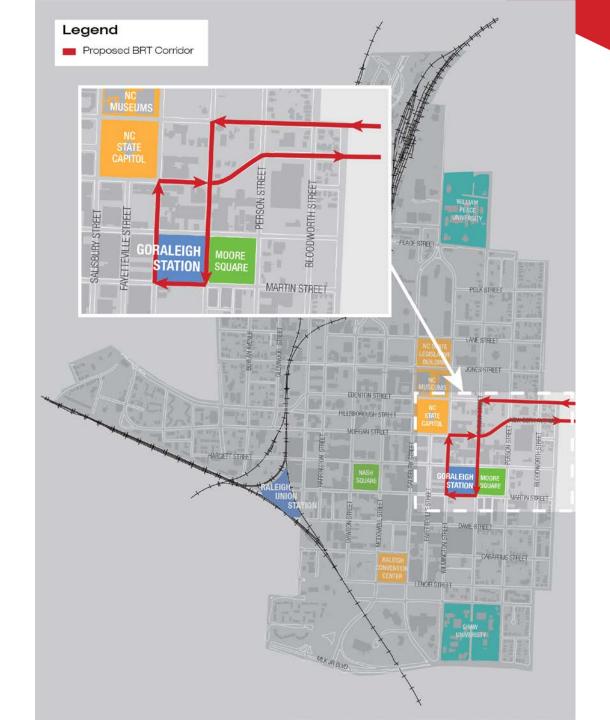
- Circulator every 10 mins, wait time = 5 mins
- Walk speed of 5 minutes per ¼ mile, or 20 minutes per mile
- PM Peak Traffic

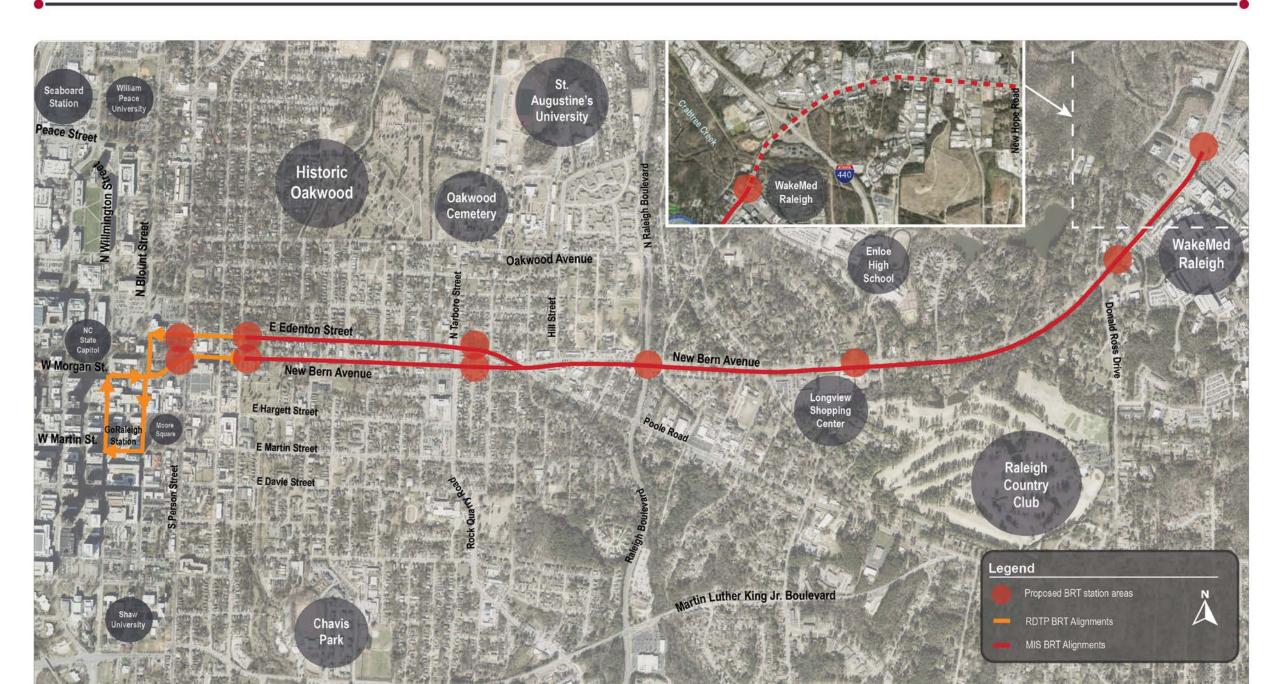


#### Preferred Scenario



# BRT Implementation – Near Term (2023)

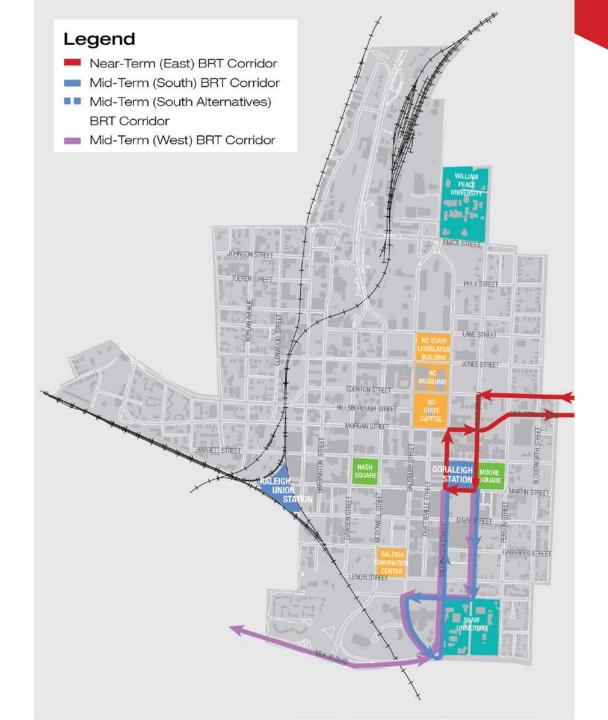




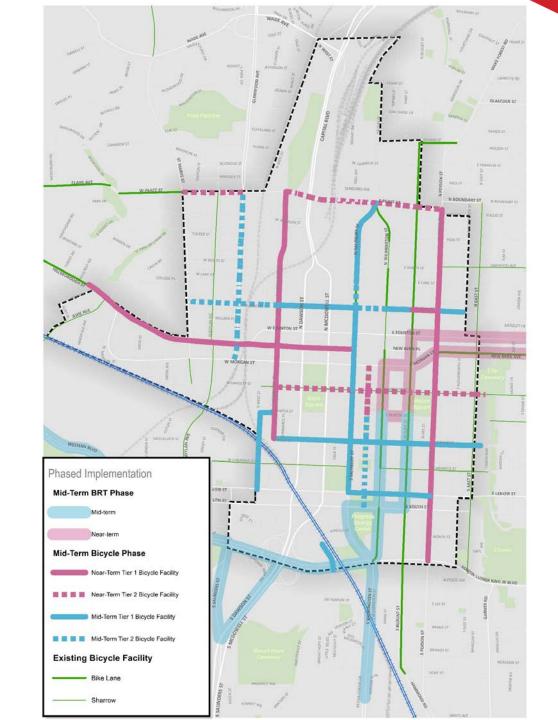
#### Bike Implementation— Near Term (2023)



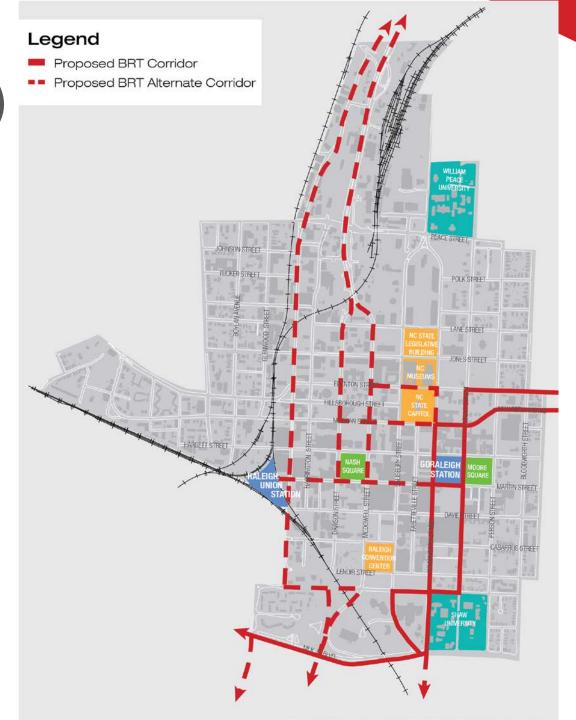
## BRT Implementation— Mid-Term (2025)



## Bike Implementation – Mid-Term (2025)



# BRT Implementation – Full Build-Out (2027)



## Bike Implementation – Full Build-Out (2027)



## Questions?



