

# North Carolina Statewide Multimodal Freight Plan Update

Freight Advisory Committee

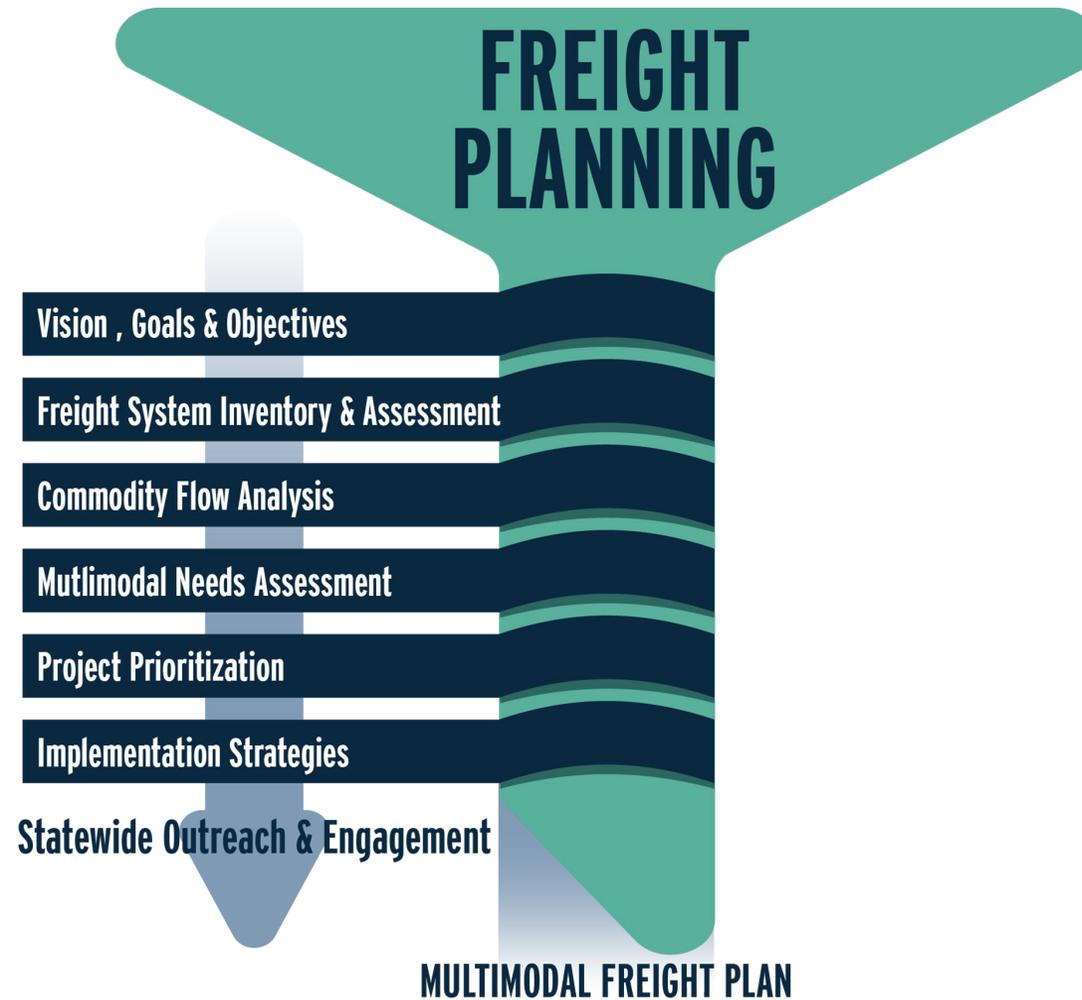
May 3, 2022



**NORTH CAROLINA  
STATEWIDE  
MULTIMODAL  
FREIGHT PLAN**  
*Planning for the Future of Freight Movement*



# Approach Overview



# Stakeholder Outreach & Engagement



## Creating the Plan

- Develop Public and Stakeholder Involvement Plan
- Virtual meetings
- Review bordering state plans



## Stakeholders

- Freight Advisory Committee
  - Transportation officials
  - MPOs/RPOs
- Local governments
- Modal partners/authorities
- Enforcement agencies
- Regional partners
- Private freight industry
- Technology providers
- Internal NCDOT Offices and Divisions



## Meetings and Outreach

- Stakeholder interviews (74)
- Public and community events (5)
- Regional Forums (4)
- FAC Meetings (3)
- Modal Partner Meetings (15)
- Online survey
- Social media

# **Infrastructure Investment and Jobs Act (IIJA) Additional Freight Plan Requirements**

## Infrastructure Investment and Jobs Act (IIJA) Additional Freight Plan Requirements

### **Assessment of commercial motor vehicle parking facilities**

**Assessment of truck parking that includes:** a) the capability of the State to provide adequate parking facilities, b) the volume of commercial motor vehicle traffic in the State and c) whether there exist any areas within the State with a shortage of adequate truck parking facilities

**Strategies and goals to decrease:** a) the severity of impacts of extreme weather and natural disasters on freight mobility, b) the impacts of freight movement on local air pollution, c) the impacts of freight movement on flooding and stormwater runoff and d) the impacts of freight movement on wildlife habitat loss

**Infrastructure Investment and Jobs Act (IIJA) Additional Freight Plan Requirements**

<b>Ports</b>	<b>Freight related associations</b>	<b>Local governments</b>
<b>Freight Railroad</b>	<b>Third party logistics providers</b>	<b>Metropolitan planning organization</b>
<b>Shippers</b>	<b>Freight industry workforce</b>	<b>The environmental protection department of the state</b>
<b>Carriers</b>	<b>Transportation department of the State</b>	<b>The air resources board of the State</b>
<b>Economic development agencies of the State</b>	<b>Not-for-Profit Organization</b>	<b>Community Organization</b>

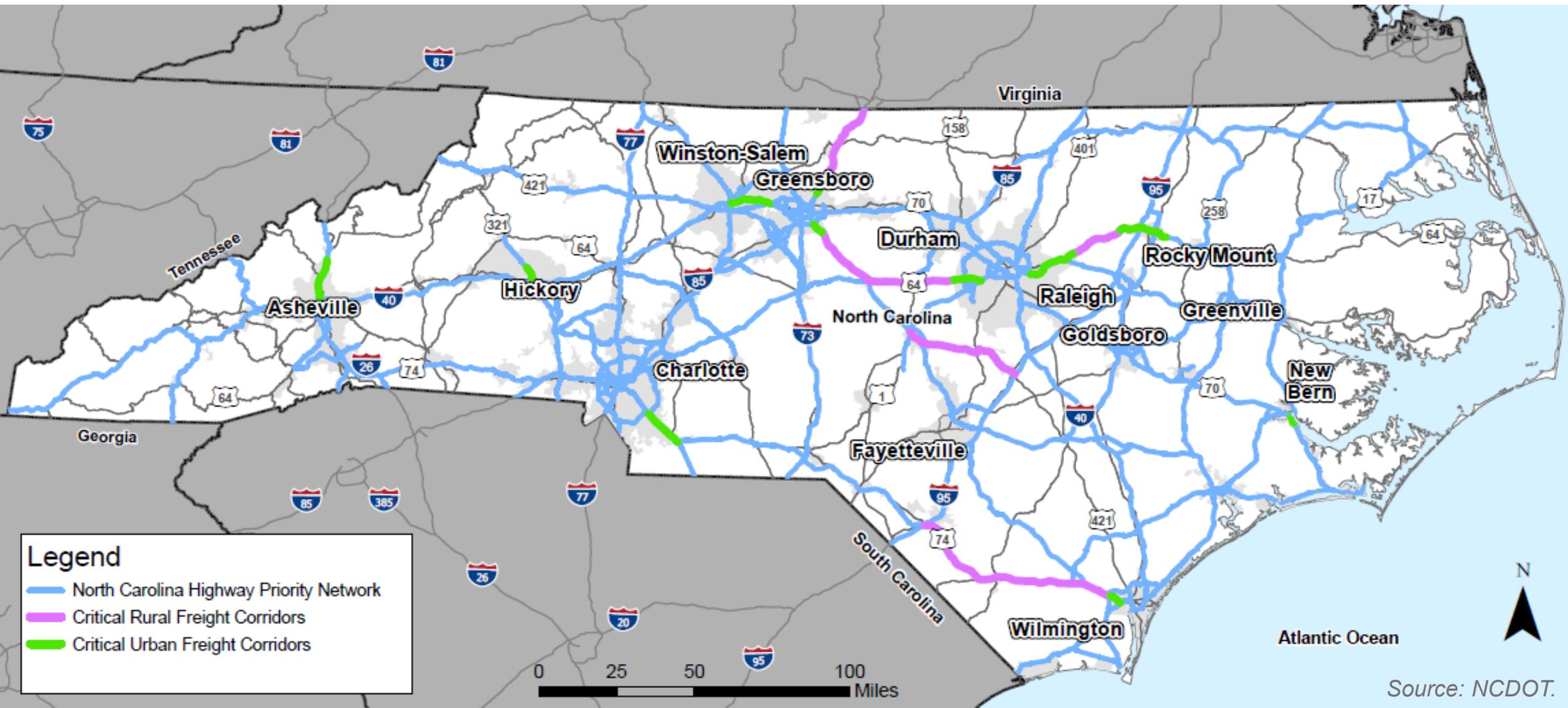
# Multi-State Freight Compacts

Congress recognizes the right of States, cities, regional planning organizations, federally recognized Indian Tribes, and local public authorities (including public port authorities) that are regionally linked with an interest in a specific nationally or regionally significant multi-State freight corridor to enter into multi-State compacts to promote the improved mobility of goods

- Identifying projects along the corridor that benefit multiple states
- Assembling rights of way
- Performing Capital improvements

<b>Multi-State Freight Corridor Advisory Committee</b>	
<b>Ports</b>	<b>Freight-related associations</b>
<b>Freight railroads</b>	<b>Third party logistics Providers</b>
<b>Shippers</b>	<b>Freight industry workforce</b>
<b>Carriers</b>	<b>Environmental organizations</b>
<b>Community Organizations</b>	<b>Units of Local Government</b>

# 2017 NC Highway Freight Network



# **Vision, Goals, and Objectives**

# Events Since the 2017 Freight Plan



COVID-19 global pandemic



Technology for efficiency and operations



Supply chain impacts



Extreme weather conditions



Increase in e-commerce last mile impacts



Infrastructure Investment and Jobs Act



Workforce and labor challenges

# Recommended Updates

## Vision

North Carolina's multimodal freight transportation network is meeting the growing needs of the State to compete globally for quality jobs, provide safe and efficient **mobility for people and goods**, and build quality, **resilient, and sustainable** communities for today and the future.

## Goals

2017 NC Freight Plan	Economic Competitiveness	Mobility & Reliability	Safety & Security	Innovative Technology	Asset Management	Environmental Sustainability & Livability	Collaboration & Partnership	Sustainable Funding
NC Moves 2050 Plan	Support a strong economy	Provide transportation access for all	Ensure safety and security		Maintain a high-quality system			
		Improve transportation through technology				Provide transportation access for all		
MAP-21, FAST ACT, and IIJA	Economic Competitiveness	Innovation & Advanced Technology			State of Good Repair	Environmental	Multistate Connectivity	
	Economic Efficiency and Productivity	Reliability	Safety, Security, Efficiency, Resiliency					
2022 NC Freight Plan (Proposed)	Economic Competitiveness	Mobility & Reliability ★	Safety & Security	Innovative Technology	Asset Management	Sustainability & Livability ★	Collaboration & Partnership	Sustainable Funding

(\*) Goals whose objectives are proposed to be modified

# Recommended Updates



## Environmental Sustainability and Livability

*Protect and enhance the natural environment*

- Reduce freight-induced negative impacts on natural, cultural and environmental resources
- Reduce mobile source emissions, GHG, and energy consumption
- Reduce noise, vibration and other freight-induced negative impacts on residential communities
- Improve quality of life for those communities most impacted by freight operations

## Resiliency, Redundancy and Climate Change

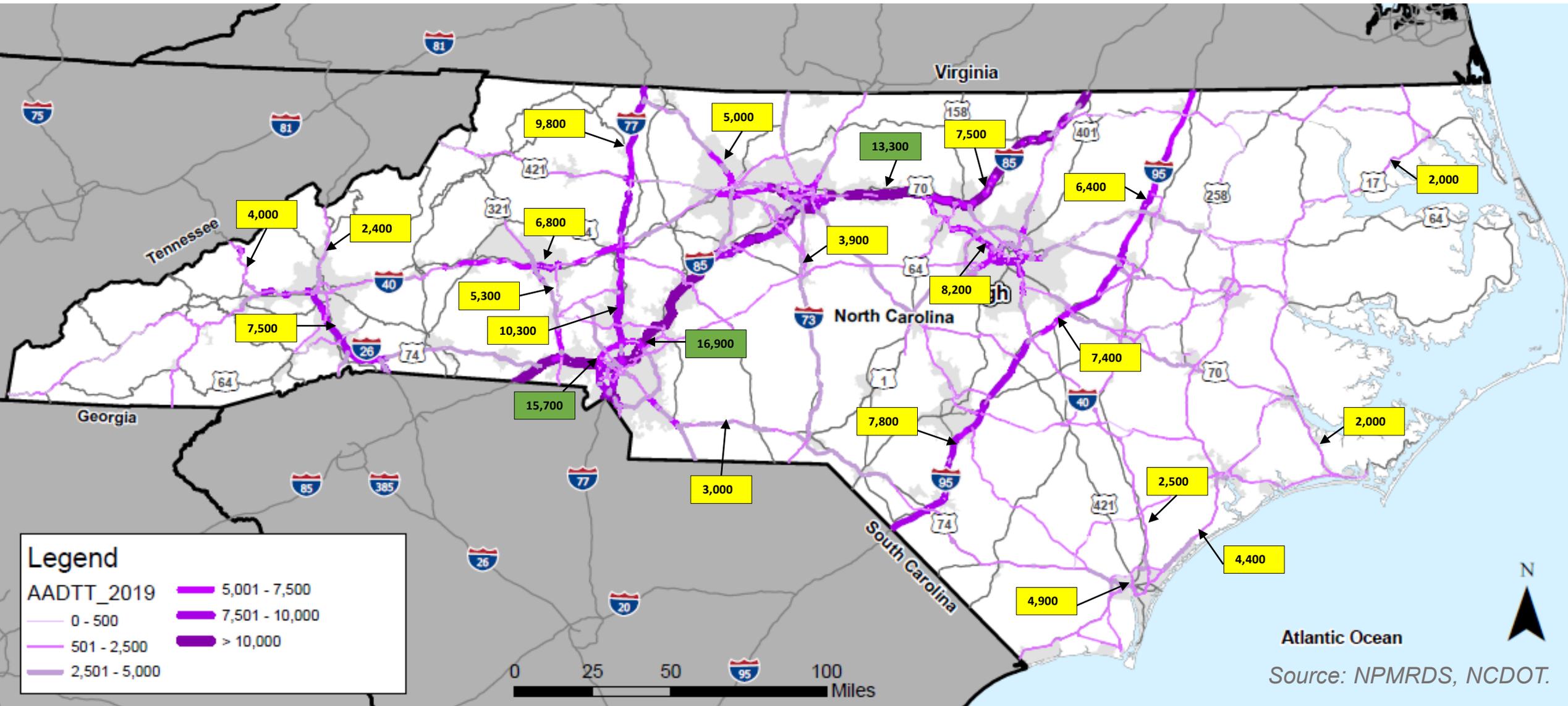
- Support affordable electric vehicles for an equitable clean energy freight economy.
- Reduce and/or mitigate the adverse environmental and community impacts of multimodal freight and passenger rail and strengthen the resilience of the multimodal freight network against extreme weather events.
- Support expanded multimodal freight rail service as a means of reducing carbon emissions and fuel consumed per ton- and per passenger-mile and increasing the resiliency and redundancy of the system against extreme weather events.
- Enhance resiliency and develop redundancy for the multimodal freight network.

## Equity

- Reduce the multimodal freight impact on areas of persistent poverty areas.
- Provide equitable opportunities for workforce development to low income and minority groups.

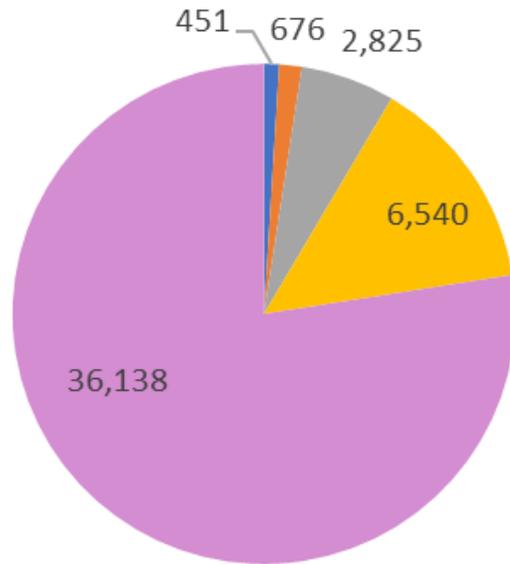
# Multimodal Freight Safety and Data

# Truck Traffic on the Freight Network



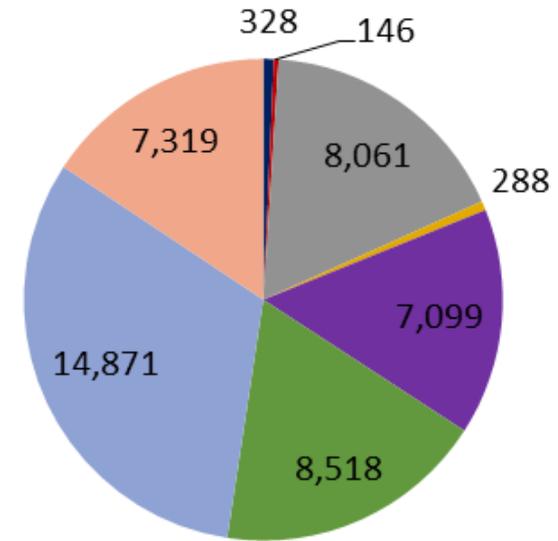
## Total Truck Crashes in North Carolina from 2015-2019: 46,630

Truck Crashes by Severity



- Fatality
- Incapacitating Injury
- Non-Incapacitating Injury
- Possible Injury
- Property Damage Only and Unknown

Truck Crashes by Type

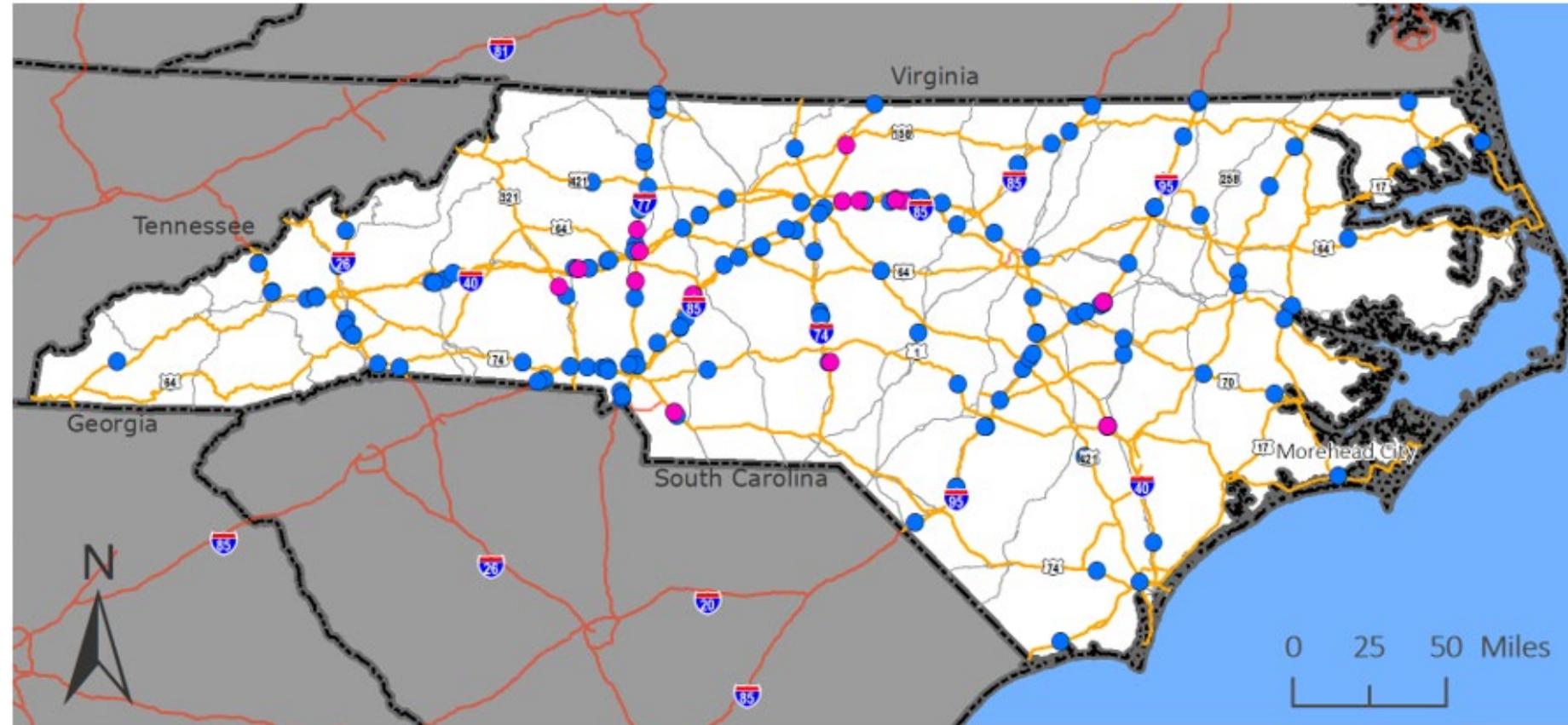


- Head On
- Pedestrians and Cyclists
- Angle
- Jackknife
- Ran Off Road
- Rear End
- Sideswipe
- All Others

# Truck Parking Inventory (2020)

## New Truck Parking Facility Locations

- By 2020, 14 new parking locations were added with 1,300 additional spaces
- Pilot/Flying J added the most capacity in the state (9 new locations) followed by Love's with four new locations and TA Greensboro with one new location.



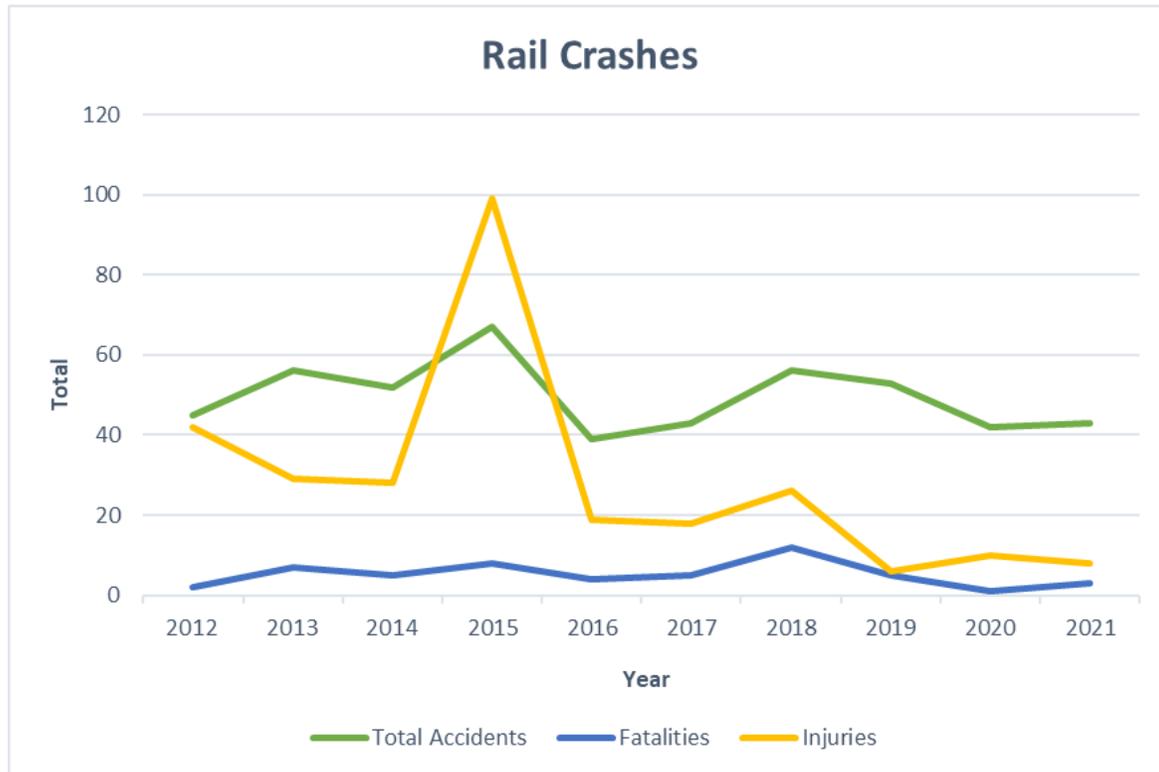
### Legend

- New Truck Parking Facility
- Old Truck Parking Facility
- Corridors with Adjacent Truck Parking Space



# Improving Rail Safety At-Grade Crossings

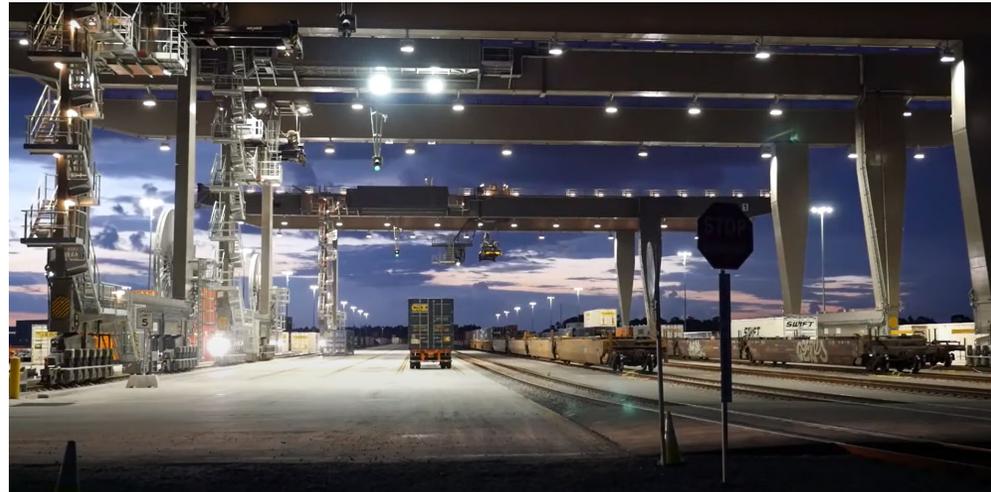
Highway-Rail Incidents	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Total
Total Accidents	45	56	52	67	39	43	56	53	42	35	488
Fatalities	2	7	5	8	4	5	12	5	1	3	52
Injuries	42	29	28	99	19	18	26	6	10	8	285



- Mortality rate has improved 75% since 2018 to present (2021)
- Safety Improvements
  - Warning devices, rehabilitation, adoption of channelization
- Funding
  - NCDOT & FRRCSI SIAP, Section 130, and STI Program

# North Carolina Intermodal Rail Terminals

- Carolina Connector Intermodal Terminal (Rocky Mount, NC)
  - Opened November 2021
  - 330 Acre Site
  - CSX Intermodal Service
  - Five miles off I-95 and 60 miles NE of Raleigh
  - Three fully automated zero-emission electric RMG cranes
  - Completely automated terminal
  - Wilmington Midwest Express



# Schedule and Next Steps

Task	2021		2022											
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Notice to Proceed	█													
Kickoff Meeting		★												
State Freight Network Assessment		█	█	█	█	█								
Stakeholder Meetings			█	█	█	█								
Freight Advisory Committee					★									
Supply Chain and Logistics Profile			█	█	█	█								
Freight Advisory Committee						★								
Review of Analysis Results; Development of Goals					█	█	█	█						
Freight Advisory Committee								★						
Development of Strategies and Prioritization to Achieve Goals							█	█						
Truck Parking Study Update					█	█	█	█						
Draft Report									█					
FHWA Review 1									█	█				
Public Comment Period									█	█				
Board of Transportation Review									█	█				
Finalize Document										█	█			
Board of Transportation Adoption												█		
FHWA Review 2												█	█	
FHWA Approval													█	
Training														█

## Next Steps

- Stakeholder Engagement
- Needs Assessment
- Goal Strategies and Prioritization
- Freight Forums May 17 & 19
- Truck Parking Update
- June FAC Meeting

★ Meeting

**Any Other  
Questions or  
Comments?**