

# North Carolina Statewide Multimodal Freight Plan Update

Freight Advisory Committee

March 8, 2022



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



# Consultant Team



- Technical Lead
- Stakeholder Outreach
- Vision and Goals
- Modal Profiles
- Implementation
- Documentation



- Senior Advisor
- Training

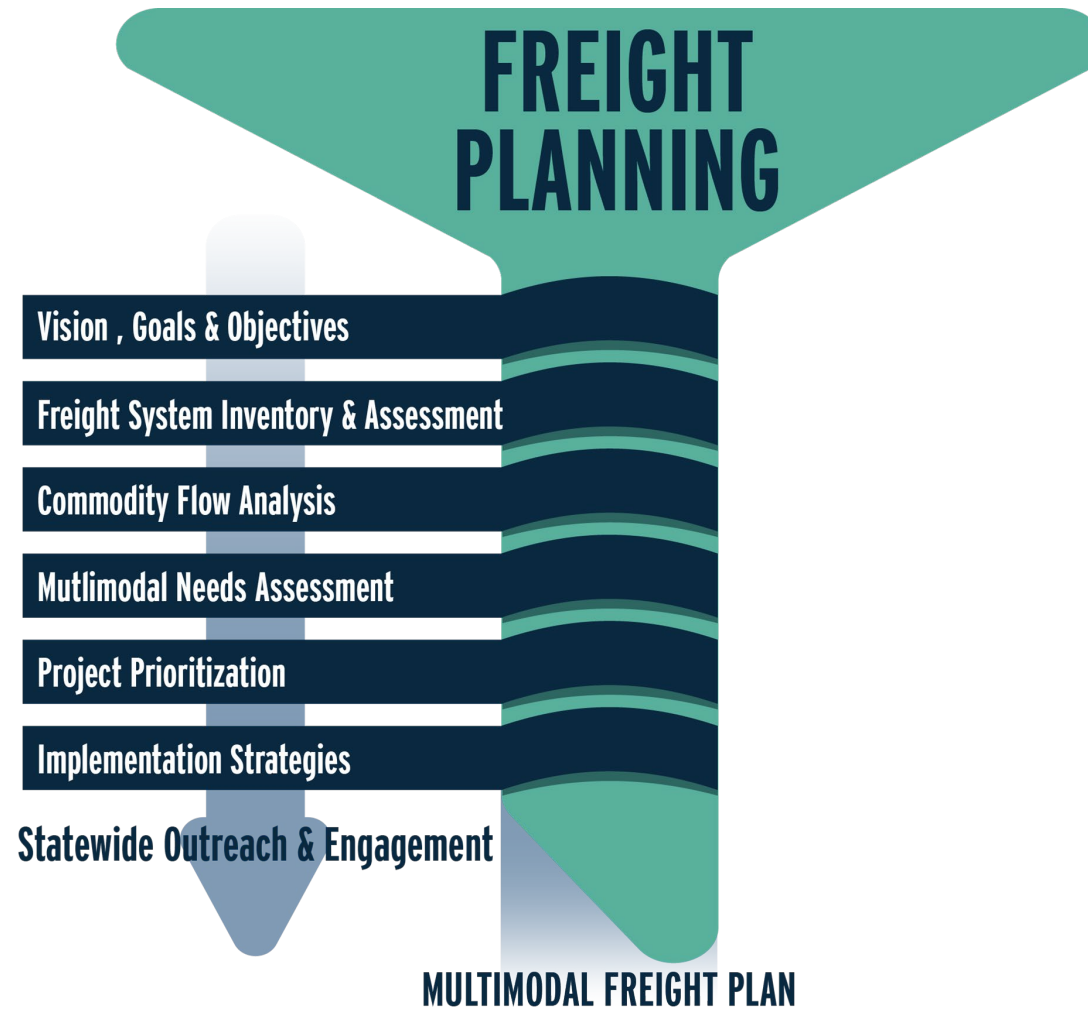


- Senior Advisor
- Commodity Flow Analysis



- Travel Demand Modeling

# 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

### **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 3) 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

# **Vision, Goals, and Objectives**

# North Carolina 2017 Freight Vision and Goals

## 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 communities for today and the future.

## Goals

Goal	Goal Definition
Economic competitiveness	Enhance economic development opportunities and competitiveness
Mobility and reliability	Improve freight system efficiency, reliability, and resiliency
Safety and security	Enhance freight transportation safety and security
Innovative technology	Support adoption and deployment of new freight technologies
Asset management	Improve freight infrastructure conditions and preservation
Environmental sustainability and livability	Protect and enhance the natural environment
Collaboration and partnership	Foster public-private partnerships and collaboration with freight stakeholders
Sustainable funding	Ensure good fiscal management and sustainable funding for the State's freight network

# 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.

# 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
- Supply Chain and Logistics Profiles
- State Freight Network Assessment
- April FAC Meeting

