#### GREATER CHARLOTTE REGIONAL FREIGHT MOBILITY PLAN

#### **STEERING COMMITTEE MEETING** September 23, 2015

#### Welcome

- Builds on past regional work
  - Three Pillars: land use, economy, and transportation
    - CONNECT Our Future
    - Comprehensive Economic
      Development Strategy (CEDS)
    - MPO & RPO's transportation plans





Vibrant Communities - Robust Region

#### Welcome

#### Increased competition for Federal funding

MAP-21 and Federal Transportation Funding

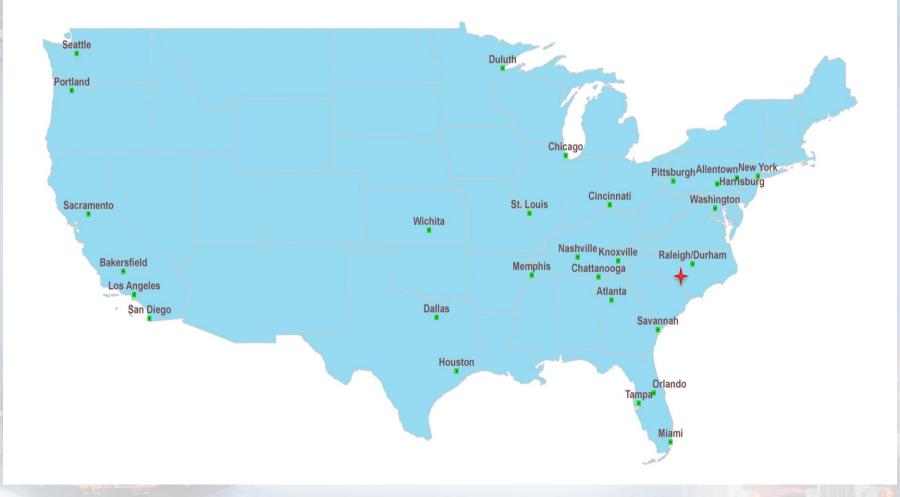


#### Welcome

- Inform the NC State Freight Plan
  - Regional level focus of issues and recommendations



#### **Regions with Standalone Freight** Plans/Studies



Planning for Fast, Efficient Freight Transport in the Greater Charlotte Bi-State Region

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#### **Discussion Question 1:**

# What outcome(s) are needed to make the regional freight mobility plan a success?

Victoria Rittenhouse, Centralina COG

#### **BACKGROUND & CONTEXT**

#### **Background & Context**

#### What brought us to developing a regional freight study?

The Comprehensive Economic Development Strategy "CEDS"

#### What is a CEDS?

- A regional strategy which reflects local economic development needs and priorities and recommends a regional approach to achieving sustainable economic development.
- The CEDS is used as a regional strategy to coordinate economic development efforts.

#### **Background & Context**

#### Why develop a CEDS?

- To compete nationally and internationally for people and businesses, interdependent jurisdictions are planning regionally
- Across U.S., metropolitan areas are realizing significant competitive and fiscal advantages from coordinated and collaborative regional planning

#### **Our region's CEDS**

- builds on the region's strengths and assets
- emphasizes key regional industry clusters
- focuses the economic development priorities

#### Asset Inventory, SWOT & Target Industries and Competencies

Target Competency Matrix – Greater Charlotte Region

**Target Competencies** 

#### Advanced Manufacturing

Advanced Materials Specialty Chemicals Industrial Machinery Metalworking Robotics, Automation, Mech.

#### Engineering

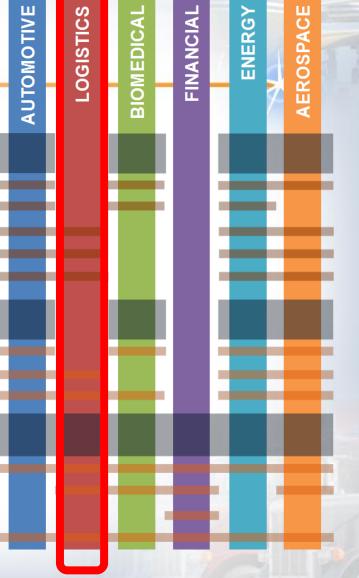
Optoelectronics Industrial Operations Technology Development

#### Information Technology

Systems Software Information Security Banking IT Web Applications



#### **Target Industries**



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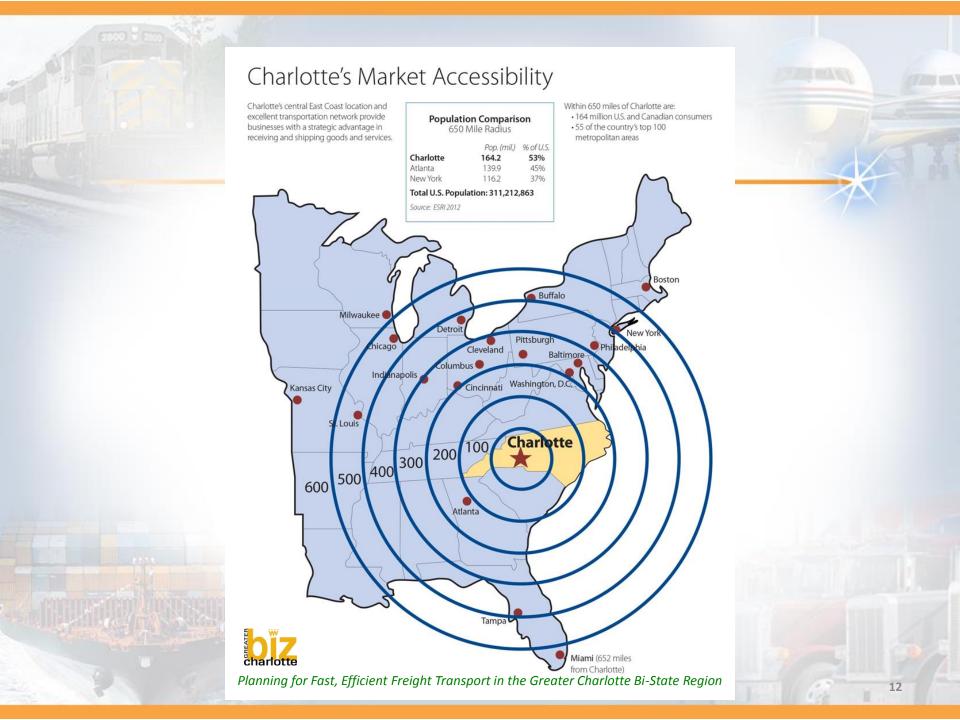
### **2012 CEDS Priorities & Goals**

**Goal:** Ensure the region has a highly connected, efficient multimodal transportation system and an abundant supply of shovel-ready sites

- The region's industries must increase integration of new technologies to remain competitive and <u>leverage new logistics assets and infrastructure</u> <u>to access global markets</u> (such as new intermodal facility at the airport and regional telecom infrastructure).
- New and emerging industries and technologies must be supported through improved entrepreneurial support systems and <u>targeted</u> <u>infrastructure improvements</u>.
- Regional collaboration is strong in economic development but should be strengthened by strategic collaboration in entrepreneurship, <u>infrastructure planning</u>, education and workforce development planning.

Planning for Fast, Efficient Freight Transport in the Greater Charlotte Bi-State Region

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## Why freight matters?

- 62% of U.S. national industrial base and over 60% of the U.S. population is accessible within 24 hour drive (650 miles) of Charlotte, giving the Region a unique logistical and Global competitive advantage.
- According to Site Selection, Charlotte ranks 5th in the nation for new and expanded distribution operations, with 192 facilities and serving as home base for distribution operations at such diverse companies as Family Dollar, Black & Decker, General Motors, Lucent Technologies and TJ Maxx.
- Charlotte is the nation's 12th largest trucking center with over 339 firms operating here that employ over 8,000 workers. Additionally, 817 transportation and warehousing companies call this region home.

## The U.S. business logistics system cost is the equivalent of 8.3% of GDP in 2014

(\$ billions)



# Why freight matters?

- In 2014 the Cost of Logistics as Percentage of GDP was 8.3
- Logistics related cost as a percentage of sales range from 9% -14%
- Successful freight mobility planning will strengthen the regional economy
- Efficiencies have multiple benefits.

Pat Anater, CDM Smith

#### GREATER CHARLOTTE REGIONAL FREIGHT MOBILITY PLAN

#### **Plan Purpose**

The efficient, reliable, and safe movement of goods and commodities in the Greater Charlotte region is required to sustain private sector commerce. at

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Freight (

Current

Manufacturing, logistics, distribution and agricultural sectors rely on freight transportation to connect their supply chains.

In order for existing businesses to grow and attract customers, the freight system must provide mobility to get goods to market.

Looking Toward the Future 5.

The Greater Charlotte Region should look to position itself as an emerging trade hub in Southeast.

The region is rich in the attributes and characteristics to become a national and global trade hub.

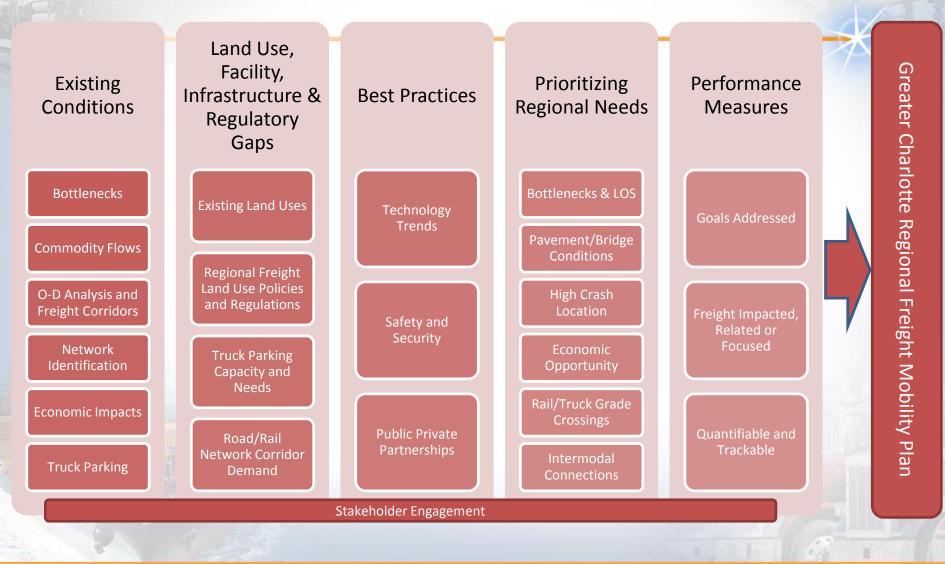
The major west-east and southnorth highway corridors, and first class access to the rail network with Charlotte as a hub.

The Charlotte-Douglas International Airport recently developed their multimodal strategic plan and should serve as a tool to inform the Freight Mobility Plan.

## Understanding the Region's Freight Landscape

- Congestion has a significant impact on commerce
- Multijurisdictional issues
- Sprawl/Land Use Management
- Making what we have work better
- Capitalize on port connections
- Enhancing modal connectivity
- Good planning leads to implementable projects
- Outreach to freight system users

#### **Plan Development Process**



#### **Plan Outcomes**

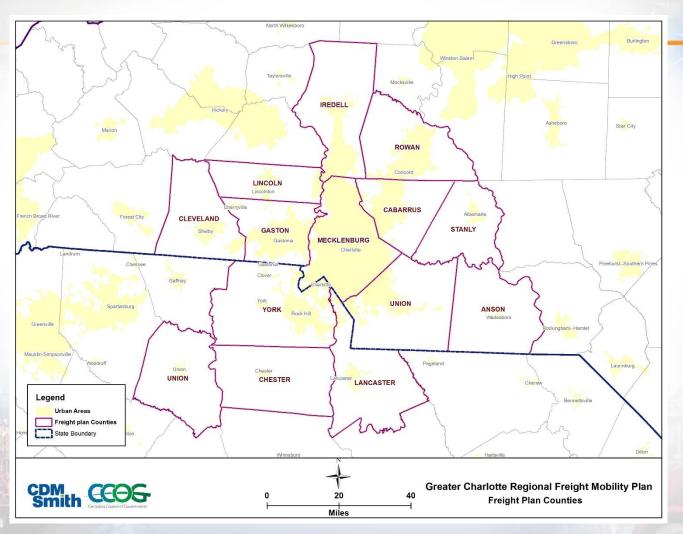
- Recommendations and guidance for actions, policies and investments
- Project prioritization processes for Strategic Transportation Investments
- Opportunity to increase federal share beyond MAP-21
- Freight transportation conditions, performance, needs and opportunities
- Freight logistical, infrastructure, land use and economic impacts

It is critical that the Charlotte region prioritize needs that provide the greatest impact to freight mobility and opportunity.

#### Plan Update—Progress to date

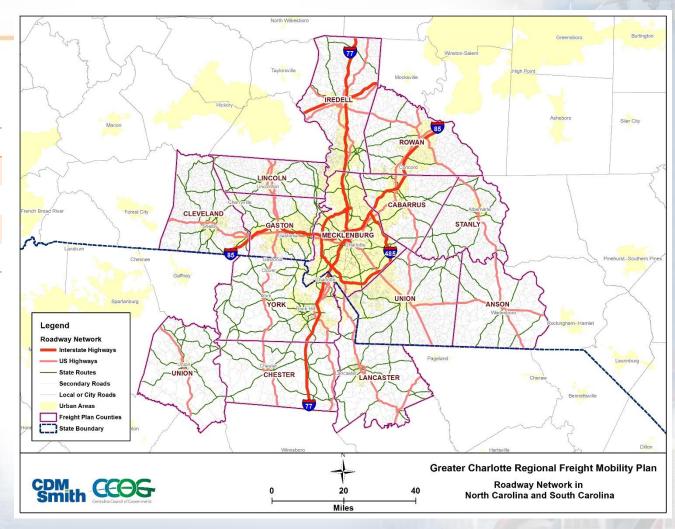
- Sub consultants getting under contract
- Data files from Coordinating Committee
- Freight network inventory
- Truck parking inventory and utilization
- Review of existing plans
- Mapping

#### **Study Area Boundary**



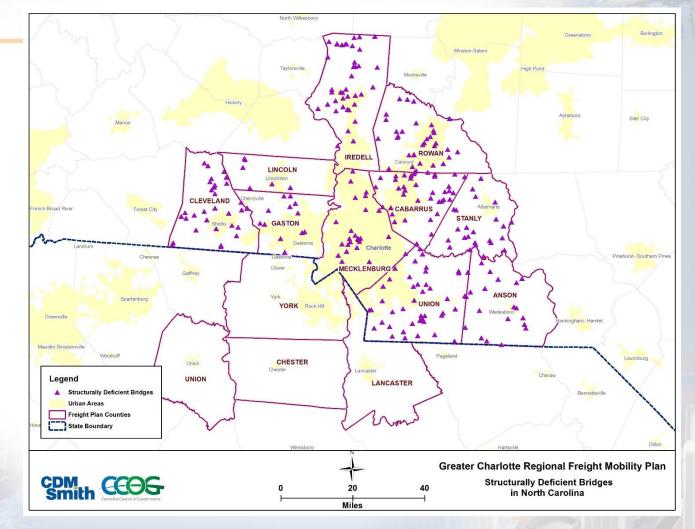
#### **Truck Roadway Network Inventory**

<b>Roadway Type</b>	Miles
Interstate	556.86
<b>US Highway</b>	920.06
State	1,846.41
Local	12,051.34



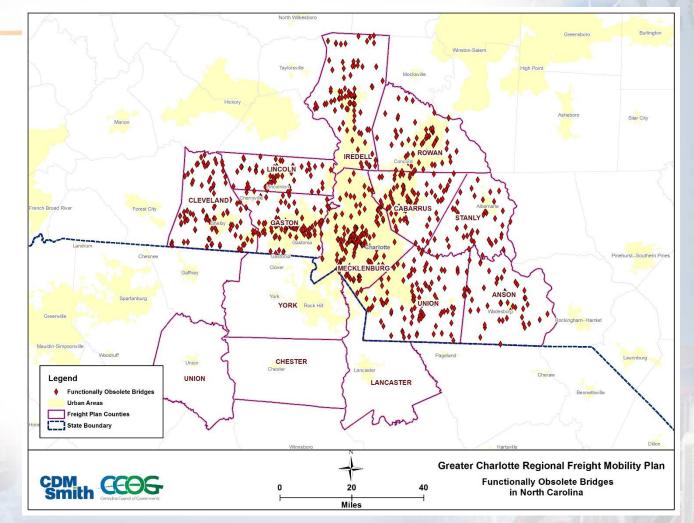
#### **Bridges**—Structurally Deficient

- North Carolina: 282 Bridges
- South Carolina: No Data



## **Bridges**—Functionally Obsolete

- North Carolina: 831 bridges
- South Carolina: No Data



#### **Truck Parking Demand**

- Observations
  - Heavy utilization of truck parking facilities along I-77 between Exit 65 and Exit 36 in Iredell County. Trucks parked on multiple I-77 interchange and rest area ramps.
  - Heavy utilization of I-85 truck parking facilities from Exit 71 in Rowan County to Exit 39 in Mecklenburg. Trucks observed being parked on shoulders, ramps and side streets.
  - Heavy utilization of I-77 facilities south of the city through Chester County, SC.

## **Truck Parking Inventory**

#### **Truck Parking Facilities:**

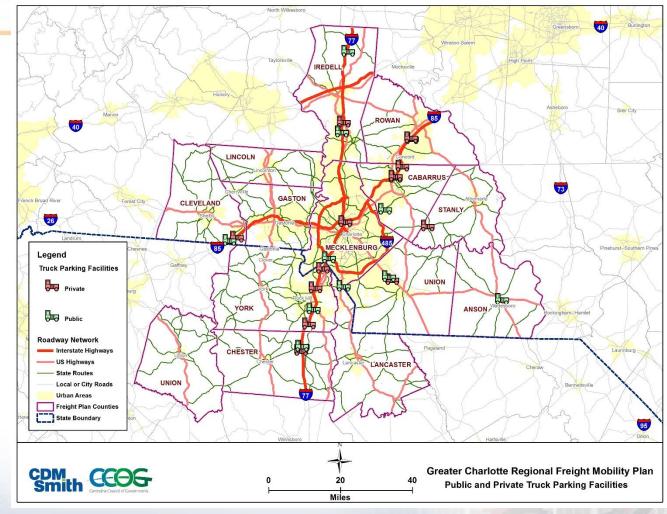
- 10 Public
- 16 Private

#### **Private truck stops:**

- www.truckstops.com
- 2015 National Truck Stop Directory.

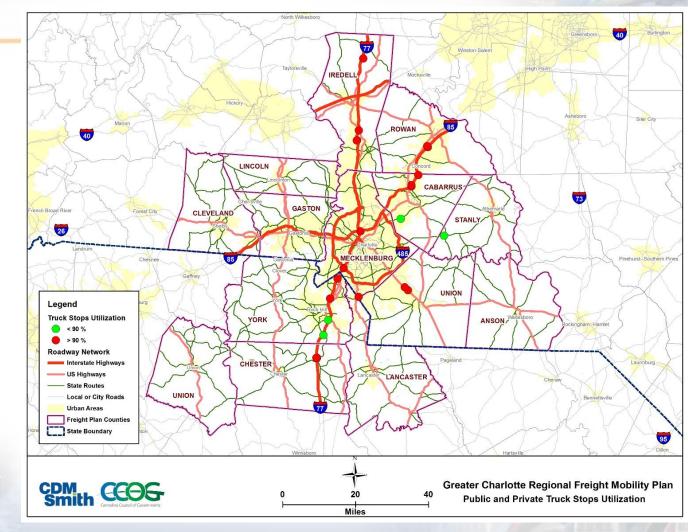
#### Public rest areas, welcome centers and visitor centers:

- NCDOT
- SCDOT
- Field Visits



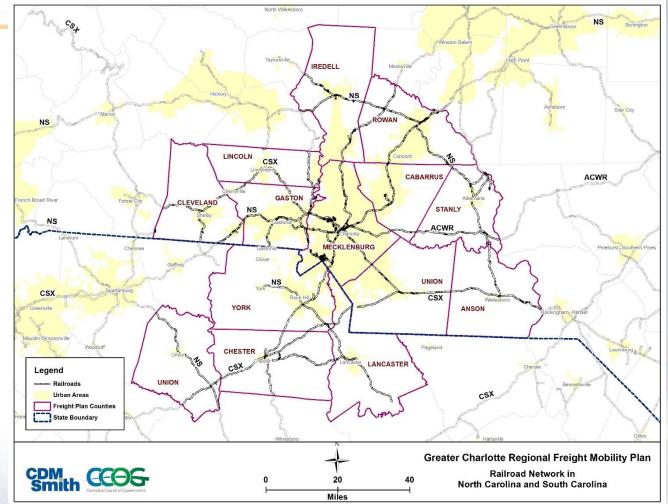
## **Truck Parking Utilization**

Of the 26 truck parking locations where data was collected, only 5 are less than 90% utilized



#### **Region's Railroads**

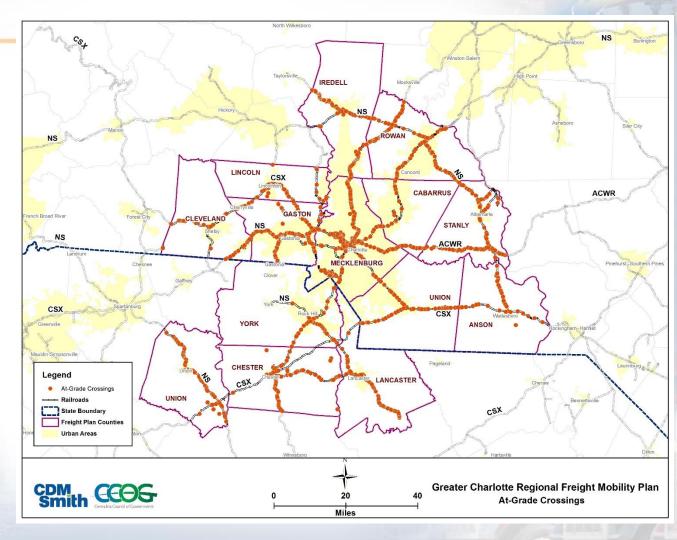
Railroad Owner	Miles
Aberdeen Carolina &	50.8
Western Railway	0010
Alexander Railroad	13.6
Company	_0.0
Carolina Coastal	13.5
Railway	13.5
CSX	335.0
NCDOT	1.0
Norfolk Southern	593.7
Piedmont & Northern	15.5
Railway	13.5
Winston-Salem	42.10
Southbound Railway	42.10
Lancaster & Chester	66.8
Others/Unknown	10.0



## **Rail/Highway at-Grade Crossings**

North Carolina -1,158 crossings

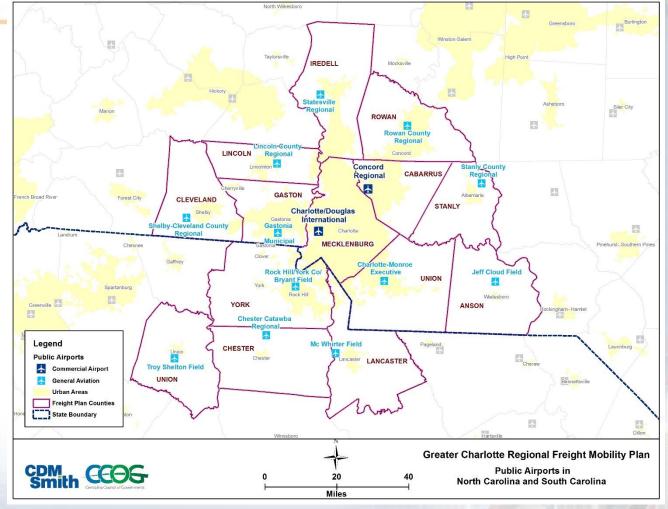
South Carolina -343 crossings



#### **Region's Airports**

Commercial Service Airports - 2

General Aviation Airports - 12



## **Current Relevant Freight Planning**

- Cabarrus-Rowan Metropolitan Planning Organization (CRMPO) Draft 2040 Metropolitan Transportation Plan (MTP) (March 2014)
- Charlotte Region Transportation Planning Organization (CRTPO) MTP (April 2014)
- Gaston-Cleveland-Lincoln Metropolitan Planning Organization (GCLMPO) MTP
- Stanly County Comprehensive Transportation Plan (CTP) (2012)
- Anson County Comprehensive Transportation Plan (CTP) (2012)
- Rock Hill-Fort Mill Area Transportation Study (RFATS) 2035 Long Range Transportation Plan (LRTP)
- Catawba Regional Council of Governments LRTP
- NCDOT Seven Portals Study (2011)
- Piedmont Improvement Program
- Charlotte Railroad Improvement and Safety Program (CRISP)
- NCDOT Statewide Logistics Plan (2008)
- South Carolina Statewide Freight Plan (2014)

#### Schedule

TASK	TIMEFRAME
Task 1: Analysis of Existing Conditions	Aug – Dec 2015
Task 2: Land Use, Facility, Infrastructure and Regulatory Gap/Future Demand Analysis	Aug 2015 – Jan 2016
Task 3: Best Practices	Dec 2015 – May 2016
Task 4: Prioritize Regional Needs	Jan – June 2016
Task 5: Freight Performance Measures	May – Aug 2016
Task 6: Draft and Final Plan Report	May – Dec 2016

Jessica Hill, Centralina COG

#### **STEERING COMMITTEE'S PURPOSE** & ROLE

#### **Steering Committee Context**

- Three Freight Plan Committees
  - Coordinating Committee comprised of region's MPO, RPO, NC DOT, FHWA, SC DOT staff representatives.
  - Steering Committee comprised of key regional experts in transportation and land use planning, economic development, logistics, and local government elected officials.
  - Advisory Committee comprised of freight systems providers (rail, trucking, air cargo firms) and users (manufacturing, distribution, and logistics firms).

#### **Steering Committee's Purpose**

- To help guide and inform the development of the region's first Freight Mobility Plan.
- By providing reviews and recommendations to the project team during the development of the Freight Mobility Plan.
- Approve and endorse project deliverables as appropriate.

## **Steering Committee's Role**

Steering Committee members agree to volunteer to:

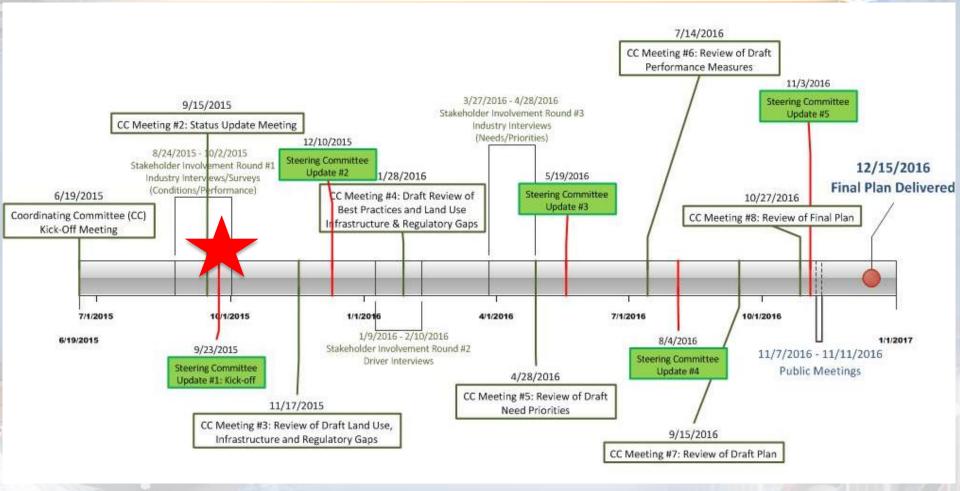
- Focus on initiatives to benefit the entire region;
- Ensure public and private sector objectives met;
- Provide insight on long-term strategies;
- Participate in Steering Committee meetings;
- Review technical memorandums (deliverables);
- Participate in stakeholder engagement events;
- Reflect the interests of your constituents;
- Communicate information back to your agency;
- Help recruit Freight Advisory Committee members;

#### **Project Team's Role**

Centralina COG and CDM Smith agree to:

- Provide Steering Committee members the opportunity to collaborate with other agencies and groups on making recommendations for the project;
- Keep Steering Committee members informed of progress;
- Provide technical expertise;
- Provide documentation for Study Task deliverables;
- Manage logistics for meetings;
- Conduct broader engagement activities as necessary to inform and engage other stakeholders; and
- Effectively manage the scope, schedule, and budget.

## **Stakeholder Engagement Timeline**



Jessica Hill and Michelle Nance, Centralina COG

#### TABLE DISCUSSION AND REPORT OUT

#### **Discussion Question 2**

# What are the current challenges impacting efficient freight movement in the Greater Charlotte **Region**?

#### **Discussion Question 3**

## What opportunities exist to support economic growth through freight mobility?

Jim Prosser, Centralina COG

#### WRAP UP & NEXT STEPS

#### How To Stay Up-to-date

- Attend Freight Steering Committee Meetings
- Attend the Planes, Trains & Semis: Keeping a Dynamic Economy on the Move Peer Exchange on November 13<sup>th</sup>
- Check our website <u>www.centralina.org</u> for new information

#### **Thank You!**

We are excited to work with each of you and get your input on the region's first Freight Mobility Plan to ensure that our region will continue to be economically competitive and a great place to live and work.

#### For more information, contact:

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Pat Anater, CDM Smith Senior Project Manager, at 919-325-3555 or anaterpr@cdmsmith.com