







Welcome

ACOG REGIONAL FREIGHT MOBILITY PLAN



-  Mute your microphone unless speaking during a Q&A session
-  Use the "Raise Your Hand" or chat box feature to ask questions
-  Announce your name whenever you speak
-  If you get disconnected, please reference the log-in instructions to reconnect audio or visual
-  If you are dialing-in or had the meeting dial-out to you, do not answer any calls and put this call "on-hold" (this will disrupt our meeting)
-  *Please pay attention:* A lot of important information will be shared!

Appalachian Regional Freight Mobility Plan

Steering Committee Meeting #4
September 10, 2020



Introduction to Speakers

ACOG REGIONAL FREIGHT MOBILITY PLAN



Adam Ivory,
AICP
Atlanta, GA



Wade Luther,
AICP
Columbia, SC



Krista Goodin,
AICP
Richmond, VA



Jenny Humphreys,
AICP
Charleston, SC

AGENDA

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1

Performance-Based
Planning

2

Draft Regional Freight Goals

3

Draft Regional Freight
Objectives

4

Draft Regional Freight Performance Measures

Performance-Based Planning

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- **Framework** – for **evaluating** potential **performance** of long-range transportation plans
- **Goal** – a **broad** statement that defines what we want to **accomplish** for the regional freight transportation system as a whole
- **Objective** – expression of the goal as they relate to specific aspects of the freight system, **measurable** but not necessarily quantifiable
- **Performance measures and targets** – serve to **measure** objectives with **data** and technical **analysis**

Draft Goals and Objectives



Goals Development

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Regional Freight Goals Development

- Comparison of Fixing America's Surface Transportation (FAST) Act, SC Statewide Freight Plan, ACOG, and MPO plan goals
- Compatible with MPO partners goals
- Enhances ACOG Rural LRTP goals
- Guides development of objectives and freight performance measure

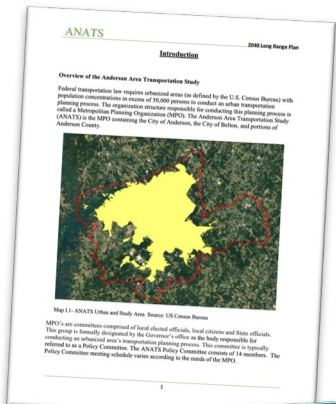
Goals Comparison

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Federal, State, and Local Plans – Goals Review

- Fixing America's Surface Transportation (FAST) Act Federal Freight Goals
 - www.fhwa.dot.gov/fastact/factsheets/nhfpfs.cfm
- South Carolina Statewide Freight Plan Update (draft)
 - www.scdot.org/inside/pdf/Combined-Notebook-for-July-16-2020.pdf [page 203 of PDF]
- ACOG 2016-2040 Rural Long Range Transportation Plan (LRTP)
 - www.scacog.org/files/files/ACOG%202016-2040%20LRTP%20with%20PPM.pdf
- SPATS 2040 LRTP
 - spatsmpo.com/planning/2015-long-range-transportation-plan/
- ANATS 2040 LRTP
 - www.cityofandersonsc.com/wp-content/uploads/2017/09/ANATS-2040-Long-Range-Plan_9_17_FINAL.pdf
- GPATS Horizon2040 LRTP
 - www.gpats.org/documents/Horizon2040_Full%20Document_2020.pdf



Goals Comparison – Federal

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FAST Act Federal Freight Goals



Congestion Reduction



System Reliability



Safety



Infrastructure Condition



Freight Movement and Economic Vitality



Environmental Sustainability








Goals Comparison – State

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South Carolina Freight Plan Update (2020 - *draft*)

-  Mobility and System Reliability Goal
-  Safety Goal
-  Infrastructure Condition Goal
-  Economic and Community Vitality Goal
-  Environmental Goal
-  Equity Goal (new)



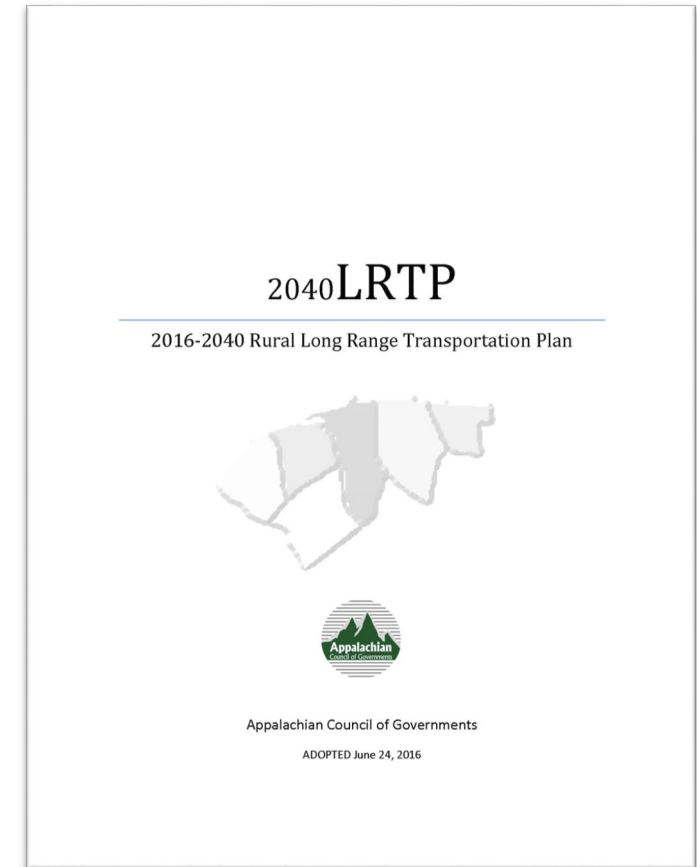
Goals Comparison – Local

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ACOG 2016-2040 Rural LRTP Goals

- Identify the current condition of the transportation system
- Provide research and data analysis to state and local governments
- Assist local governments with transportation and land use planning
- Coordinate transit efforts with regional transit authorities and human service providers
- Identify and prioritize transportation needs for input to the Statewide Multi-Modal Transportation Plan and STIP
- Implement a transportation planning process that fully complies with the federal planning requirements established by the FAST Act
- Develop a Rural Planning Work Program (RPWP)



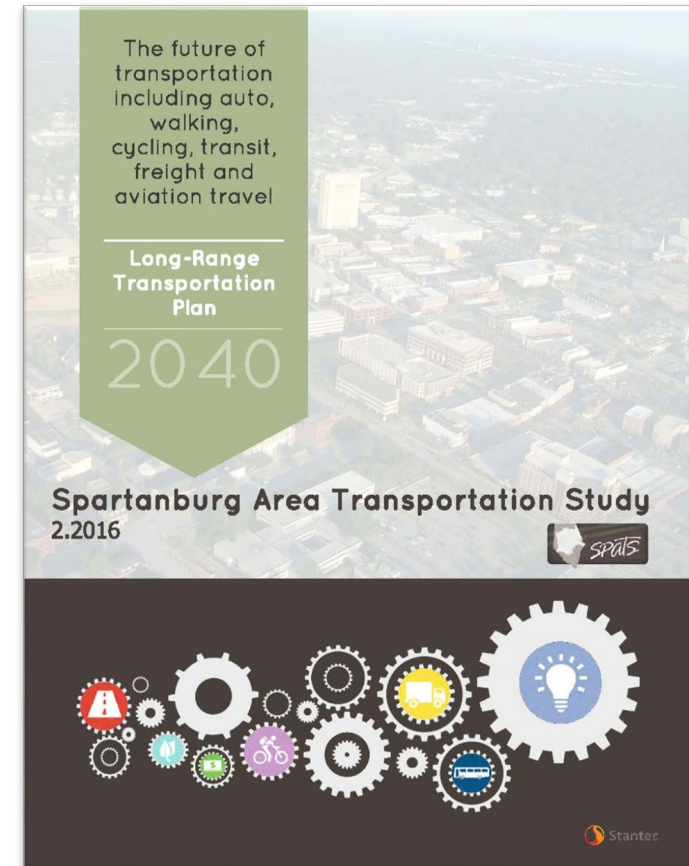
Goals Comparison – Local

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SPATS 2040 LRTP

- Improve access by bicycle and pedestrian modes of travel
- Create a more robust public transportation system
- Improve how the roadway network serves the community
- Continue to strengthen partnerships



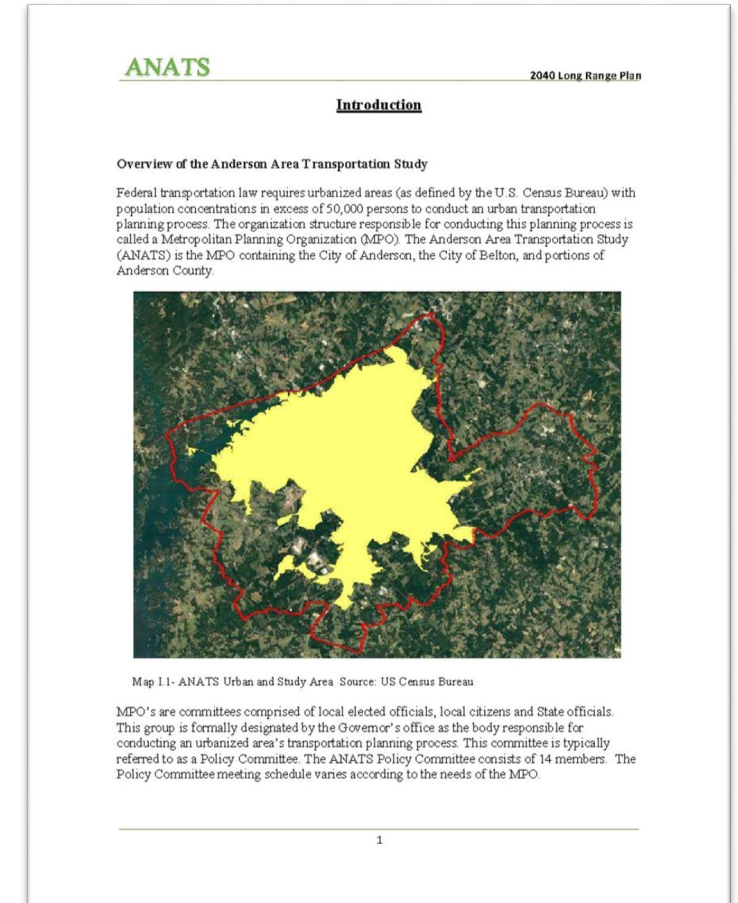
Goals Comparison – Local

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ANATS 2040 LRTP

- Provide a safe transportation system for all users
- Minimize environmental impacts of the transportation system
- Seek transportation alternatives to decrease current demand on the existing transportation system
- Develop a sustainable and efficient transportation system
- Provide performance-based results to ensure project efficiency



Goals Comparison – Local

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GPATS Horizon 2040 LRTP

- Culture and Environment
- Economic Vitality
- Growth and Development
- Mobility and Accessibility
- Safety and Security
- System Preservation and Efficiency



Goals Comparison

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FAST Act Federal Freight Goals	SC Freight Plan Update Goals	ACOG 2040 Rural LRTP Goals	SPATS LRTP 2040 Goals	ANATS 2040 LRTP Goals	GPATS Horizon2040 LRTP
Yes	Mobility and System Reliability	No	Yes	Yes	Yes
Yes	Safety	No	No	Yes	Yes
Yes	Infrastructure Condition	Yes	No	No	Yes
Yes	Economic and Community Vitality	No	No	No	Yes
Yes	Environmental	No	No	Yes	Yes
No	Equity (new)	No	No	No	No

Draft Regional Freight Goals

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RECOMMEND: *Adopt SC Freight Plan Goals including new equity goal*

-  Mobility and System Reliability
-  Safety
-  Infrastructure Condition
-  Economic and Community Vitality
-  Environmental
-  Equity

- ✓ Aligned with FAST Act, SC Statewide Freight Plan, SC Statewide MTP
- ✓ Compatible with MPO partners goals
- ✓ Enhances ACOG LRTP goals
- ✓ Guides freight performance measure development

Stop and Pause

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***Please type your questions in the questions box
for open discussion***



Objectives Development

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- Alignment with SC Statewide Freight Plan objectives
- Compatible with similar MPO partner goals and objectives
- Enhances ACOG Rural LRTP goals and objectives
- Related to draft regional freight goals
- Measurable but not necessarily quantifiable

Draft Supporting Objectives

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Mobility and System Reliability

- Objective: Reduce congestion on the freight transportation system
- Objective: Improve average speed on congested corridors

Safety and Security

- Objective: Reduce the number of high crash locations that involve trucks and at-grade rail crossings
- Objective: Improve the incident response rate to crashes on the freight system and in response to hazardous materials incidents
- Objective: Implement enhanced Intelligent Transportation Systems (ITS) improvements

Draft Supporting Objectives

ACOG REGIONAL FREIGHT MOBILITY PLAN



Infrastructure Condition

- Objective: Maintain regionally significant roadways and bridges in a state of good repair



Economic and Community Vitality

- Objective: Improve access and interconnectivity of the freight transportation system to major intermodal facilities
- Objective: Maintain or improve truck travel speed and time reliability
- Objective: Improve the freight transportation system to accommodate supply chain immunity

Draft Supporting Objectives

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Environmental

- Objective: Encourage land use planning that supports and promotes the efficient movement of freight



Equity

- Objective: Improve or maintain broad based public participation into all planning and project development processes
- Objective: Incorporate freight mobility needs of all modes into prioritization processes

POLLING QUESTION

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Do you have suggestions for additional freight goals and objectives that should be included?

Draft Freight Performance Measures

Freight Plan Peer Reviews



Performance Measures

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In the public sector, performance measures provide a means to assess how the transportation system and/or a transportation agency is functioning and operating. Performance measures help inform decision-making and create better accountability for efficient and effective program implementation.

- **Plan Development** – *Provide a means to quantify baseline system performance and impacts of plan options to support trade-off decisions and help communicate the anticipated impacts of different investment strategies.*
- **Plan Implementation** – *Support plan implementation by emphasizing agency goals/ objectives and integrating them into budgeting, program structure, project selection, and project/program implementation policies.*
- **Accountability** – *Facilitate tracking and reporting on system performance relative to plan goals and objectives to support accountability for plan implementation and results.*

Draft Freight Performance Measures

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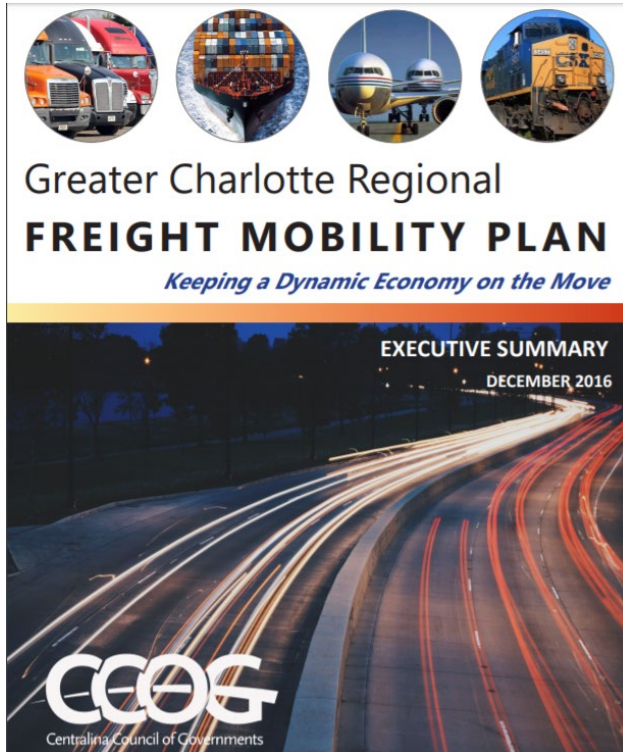
Methodology

- Peer review of similar regional freight plans
- Performance measures comparison
 - SC Statewide Freight Plan Update
 - ACOG 2040 Rural LRTP
 - SPATS 2040 LRTP
 - ANATS 2040 LRTP
 - GPATS Horizon2040 LRTP

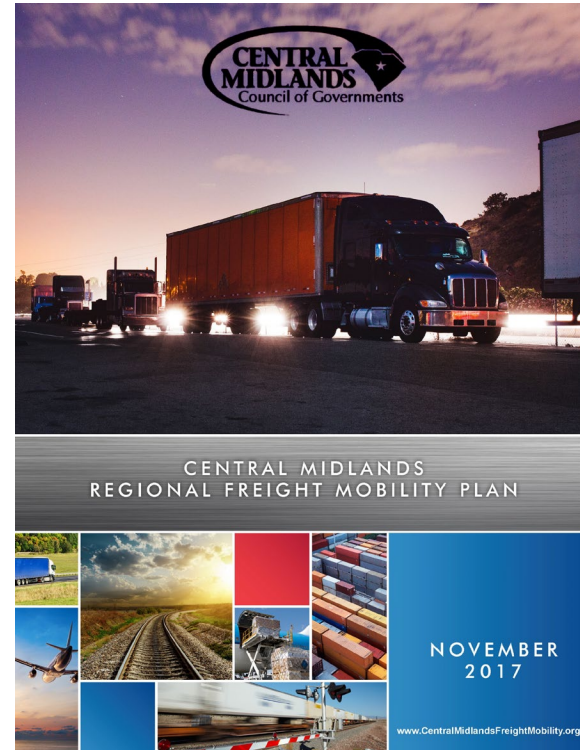


Peer Review

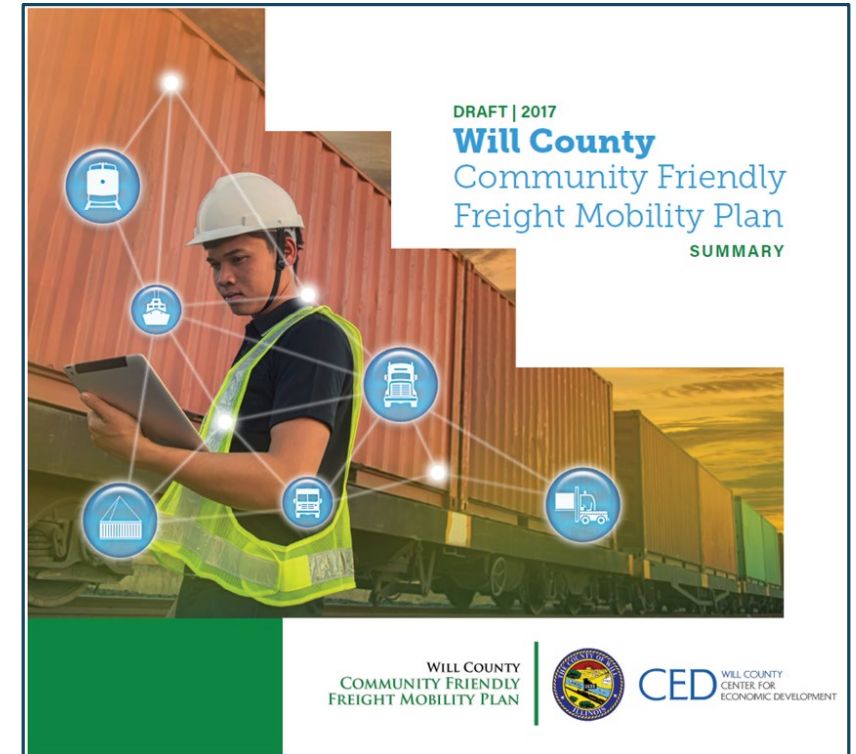
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Greater Charlotte
Regional Freight
Mobility Plan



Central Midlands
Regional Freight
Mobility Plan



Will County
Community Friendly
Freight Mobility Plan

Peer Performance Measures

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Safety – truck related incidents, at-grade crossings crashes



Economic – truck travel time, hours of truck delay, intermodal connections, TDL measures



Infrastructure condition – interstate/National Highway System (NHS) condition, deficient bridges, alternative energy investment



Environmental – air quality, hours of truck delay

Peer Performance Measures

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Reliability – truck travel time, bottlenecks, level of service, truck parking



Efficiency – backhaul movements, hours of truck delay



Coordination – number of participants, number of freight stakeholder meetings

Performance Measures Comparison

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Goal Area	Performance Measure	Data Source	Plan
Safety	<ul style="list-style-type: none">• Traffic fatalities, mileage death rate• Severe injuries, mileage severe injury rate• Non-motorized fatalities and severe injuries	SCDOT	SCDOT, ACOG, ANATS, SPATS, GPATS
Infrastructure Condition	<ul style="list-style-type: none">• % good/% poor bridge condition by deck area• % good/% poor pavement condition	SCDOT	SCDOT, ACOG, ANATS, SPATS, GPATS
Reliability	<ul style="list-style-type: none">• Travel time reliability interstate and non-interstate NHS• Truck Travel Time Reliability index	SCDOT	SCDOT, ACOG, ANATS, SPATS, GPATS

Proposed Regional Freight PMs

RECOMMEND:

- Adopt federally-required freight performance measures included in SC Freight Plan
 - Mobility/reliability
 - Safety
 - Infrastructure condition
 - Economic/community
- Utilize assistance from SCDOT to streamline data collection and analysis
- Add regional specific measures such as truck parking and at-grade crossing incidents



Proposed Regional Freight PMs

ACOG REGIONAL FREIGHT MOBILITY PLAN



Mobility and System Reliability

- **Truck travel time reliability (TTTR) index** [SC Freight Plan, ACOG, ANATS, SPATS, GPATS]
- Proportion of South Carolina's Interstate mileage that operates at less than a **Level of Service** (LOS) E for urban areas and LOS C for rural areas [SC Freight Plan]

SCDOT



Safety and Security

- Number of **large trucks** reported in **crashes** (fatal, non-fatal, injury reported, hazardous materials) **five-year trends** [SC Freight Plan, ACOG, ANATS, SPATS, GPATS]
- Number of public/private **truck parking spaces** available
- **At-grade crossing crashes** [Greater Charlotte Freight Plan]

SCDOT

TTTR Index - The reliable amount of time it takes to get from point A to point B that you can depend on

Proposed Regional Freight PMs

ACOG REGIONAL FREIGHT MOBILITY PLAN



GOALS

PROPOSED PERFORMANCE MEASURES

DATA SOURCE

Infrastructure Condition

- **Percent of miles of Interstate and NHS** rated at “good” or higher **condition** [SC Freight Plan, ACOG, ANATS, SPATS, GPATS]
- **Percent of miles of non-interstate** on regional freight network rated at “good” or higher condition [ACOG, ANATS, SPATS, GPATS]
- **Percent of deficient bridge deck area** [SC Freight Plan, ACOG, ANATS, SPATS, GPATS]

SCDOT



Economic and Community Vitality

- **TTRI index** [SC Freight Plan, ACOG, ANATS, SPATS, GPATS]
- Annual **hours of truck delay** on freight corridors [SC Freight Plan]

SCDOT

Proposed Regional Freight PMs

ACOG REGIONAL FREIGHT MOBILITY PLAN



GOALS	PROPOSED PERFORMANCE MEASURES	DATA SOURCE
Environmental	<ul style="list-style-type: none">Annual hours of truck delay on freight corridors [SC Freight Plan]	SCDOT

Questions and Answers

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***Please type your questions in the questions box
and our project team will answer them***

***If we do not get to all the questions, we'll prepare
written responses and post them to the website
with the meeting recording***