NC Capital Area Metropolitan Planning Organization

CANPO

# **CAPITAL AREA MPO**

Technical Coordinating Committee Meeting April 6, 2017 10:00 AM

- 1. Welcome and Introductions
- 2. Adjustments to the Agenda
- Public Comments
   This is an opportunity for comments by those in attendance.

Please limit comments to three minutes for each speaker.





Minutes from the March 2, 2017 meeting

**Requested Action:** 

**Approve Minutes from March 2, 2017 meeting** 



#### Wake Transit Master Participation Approval Schedule

ACTION	DATE
TCC Received MPA as Information Only	February 2, 2017
Executive Board Received MPA as Information Only	February 15, 2017
TPAC Releases MPA for Signing Party Consideration of Participation	March 29, 2017
CAMPO Staff Released MPA for 30-Day Public Comment Period	March 31, 2017
CAMPO TCC Considers Recommendation of FY 2018 Work Plan to Executive Board	April 6, 2017 or
	May 4, 2017
CAMPO 30-Day Public Comment Period Ends	April 30, 2017
CAMPO Executive Board Considers Approval of FY 2018 Work Plan	May 17, 2017



#### 5.1 Wake Transit Implementation Update and Master Participation Agreement Purpose and Provisions of Participation Agreement

- Set parameters for parties expecting to receive funding
- Parties: Any agency expecting to benefit from Wake Transit tax revenues in the implementation of the Wake Transit Plan
- Parties can choose to participate in agreement now or later
- Term = ~ 25 years
- Acknowledgement/confirmation of party participation through the TPAC and TPAC's responsibilities
- Eligibility and requirements for Wake Transit funding:
  - Requires parties to participate in Master Agreement, TPAC, and vehicle registration tax ILA to receive funding
  - Acknowledgement of subsequent agreements with minimum standard provisions
- Compliance with state law re: supplementation vs supplantation



#### **TPAC Minority Perspective on MPA**

- MPA Released by TPAC not Unanimous
- Opposition from Town of Cary on Section 5.03
  - Cary: Delete Section 5.03 entirely
    TPAC Decision: Leave Section 5.03 as written
- Cary issue with lack of detail on what Section 5.03 means



#### **On-Call Transit Planning Tasks**

Task	Start	End
Public Engagement Strategy	Underway	End of July
Staffing Plan	April	End of August
Community Funding Area Program Management Plan	April/May	Sept/Oct
Multi-Year Bus Service Implementation Plan	April	July 2018
Transit Corridors Major Investment Study	April/May	TBD
Customer Surveys	July	Ongoing



#### **Requested Action:**

Recommend the Executive Board consider approval of and participation as a party in the Wake Transit Master Participation Agreement



5.2 Memorandum of Understanding for the Sub-Allocation of Federal Transit Administration Formula Grants to the Raleigh Urbanized Area

#### **MOU Updates/Amendments**

- Wake County Added NTD reporting
- CAMPO Added Role of administering allocation calculations and concurring with designated recipients on split of funds
- Include Section 5339 and 5340 programs
- Include low-income component of Section 5307 funding formula
- Include Section 5307 fixed guideway tier
- Clean-up of other technical language in previous MOU



5.2 Memorandum of Understanding for the Sub-Allocation of Federal Transit Administration Formula Grants to the Raleigh Urbanized Area

#### **Requested Action:**

Recommend the Executive Board consider approval of the MOU for the Sub-Allocation of Federal Transit Administration Formula Grants to the Raleigh Urbanized Area.



#### 5.3 Review of Transportation-Related Ordinance Provisions



## Ordinance Provisions

ш.	<ul> <li>A. Enhance transit services, amenities and facilities</li> </ul>	A—
Promote Multimodal and Affordable Travel Choices	<ul> <li>B. Improve bicycle and pedestrian facilities</li> </ul>	1. Local per capita expenditures on transit operations
	C. Increase utilization of affordable non-auto travel modes	2. Per capita transit service hours
		3. Total transit boardings per capita
		<ol> <li>Proportion of bus stops that meet their defined facility threshold</li> </ol>
		<ol><li>Percent of boardings at stops with shelters, as compared to all boardings</li></ol>
		<ol> <li>Number of miles of transit service facilities implemented in high-frequency bus corridors, hi transit infrastructure stations, and lo transit infrastructure stations (as determined by CommunityViz), and along BOSS corridors.</li> </ol>
		<ol> <li>Percent of ridership in high-frequency bus corridors, hi transit infrastructure stations, and lo transit infrastructure stations (as determined by CommunityViz), and along BOSS corridors</li> </ol>
		8. Proportion of bus stops with sidewalks or a concrete pad.
		9. Proportion of bus stops that are ADA compliant
		<ul> <li>B—</li> <li>Local per capita expenditures on bicycle and pedestrian facilities</li> <li>Proportion of jurisdictions that have an ordinance requiring developers to build or pay in lieu for sidewalks.</li> </ul>
		<ol> <li>Ratio of miles of continuous connected greenway trails to overall miles of greenway trails.</li> <li>Sidewalk-to-roadway ratio: number of sidewalk feet for every hundred feet of roadway. (If greater than 100 there are sidewalks on both sides of road).</li> </ol>
		<ol> <li>Percent of city/area that is within 2 miles of a low-stress bicycle route.</li> <li>Proportion of audible pedestrian traffic signals to all pedestrian traffic signals</li> </ol>



## "Families"

- Access: Connections, Barriers, Parking, Bike, Ped, Transit
- Mobility: Connections, Impact
- Process: Link ordinance to plans



## Sidewalk Requirement

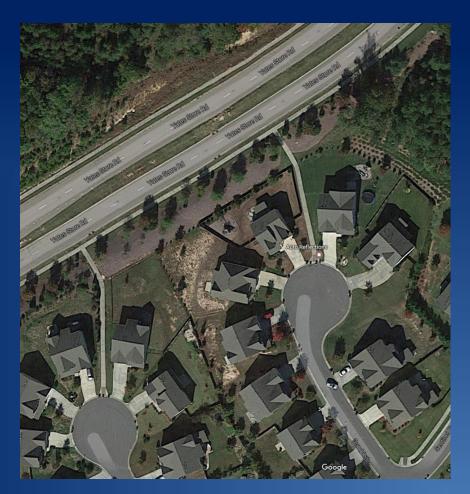
The Town Council shall require that the subdivider construct sidewalks along both sides of all major and minor thoroughfares, all collectors, and on one side of all other streets within and bordering the subdivision property boundaries. Such sidewalks shall provide direct pedestrian connections to adjacent properties outside the subdivision.

- Consideration will be given to a greenway trail/sidewalk system in lieu of some or all sidewalks within a development if an equal or better pedestrian system will be provided.
- b) Where street interconnectivity is not provided (such as but not limited to cul-de-sacs) within the development plan, the developer shall construct five-foot (5') wide Concrete Paved Paths according to the following:
  - The developer shall construct the required Concrete



### **Ped Connectors**







## Similar Requirements

- Bike Lane/Facility
- Greenway
- ADA (Usually ramps & associated signals)
- Crosswalks—staff were looking for specific provisions calling for crosswalks outside of parking areas



## No Bike Sidewalk Ban

Specific areas of ban that have been thought out were ok-often downtowns. Otherwise staff were looking for permissive policies

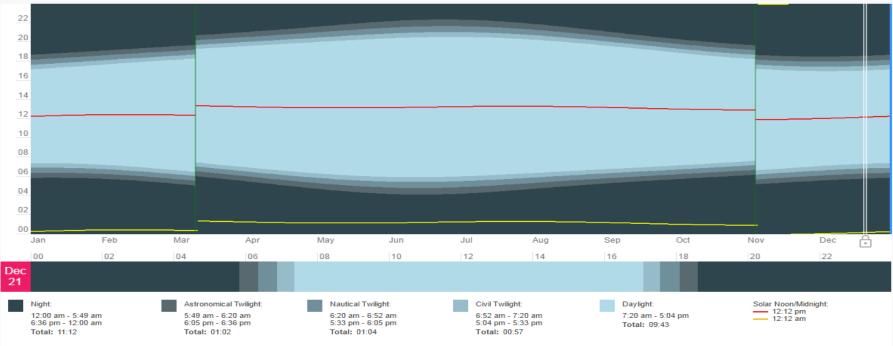




Greenway Commuter Exception

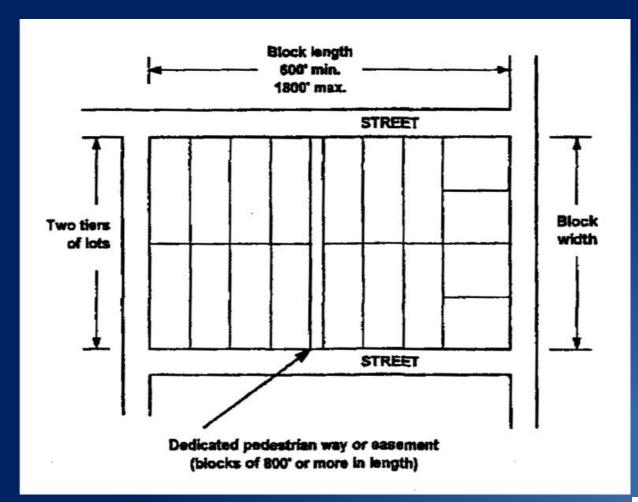


#### Yearly Sun Graph for Raleigh



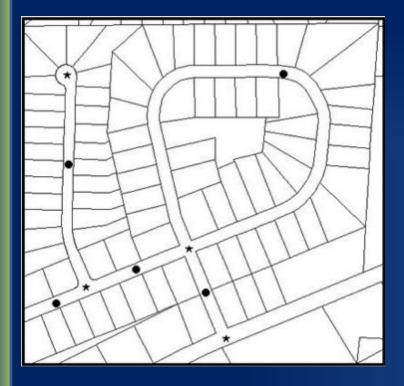
CAMPO NC Capital Area Metropolitan Planning Organization

## **Block Length**





## **Connectivity Index**



#### the number of street links divided by the number of nodes Nodes are street intersections and cul-de-sac bulbs. Links are the stretches of road that connect nodes. Stub outs are considered as links. In this example, there are 5 links (circles) and 4 nodes (stars) = connectivity index of 1.25.

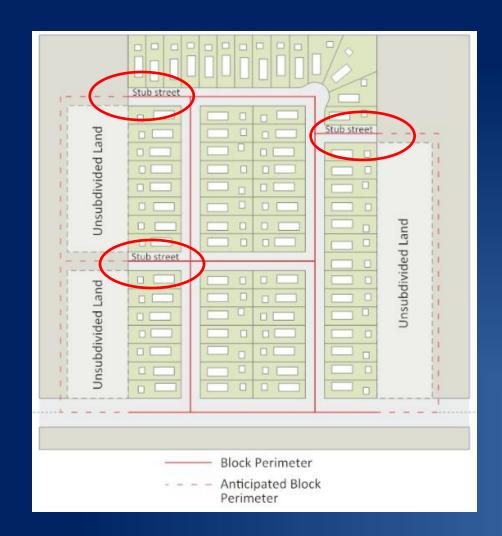


## Multiple Ingress/Egress





## Stub Out





#### **Cross Access**







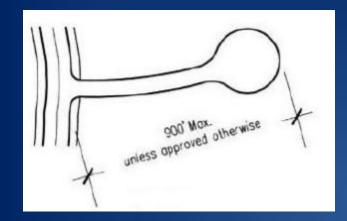
Healthiest city designs, from best to worst (Journal of Transportation and Health)

## Cul-de-Sac by Exception

"Cul-de-sac streets shall be laid out only in limited instances where they are required to provide access to land which cannot be served by a loop or other street design solution."



## Max Cul-de-sac Length





## Cumulative Length





#### Private Street Ban

- Often allowed in "complexes" where they are really just glorified driveways (townhouses, apartments, offices)—we were looking for streets above this threshold.
- "A proposed development shall not be designed to include a mix of public and private streets."

*"A public street is required based on the adopted Community Transportation Plan or adopted plans..."* 





#### Front Load Parking

Walmart Supercente



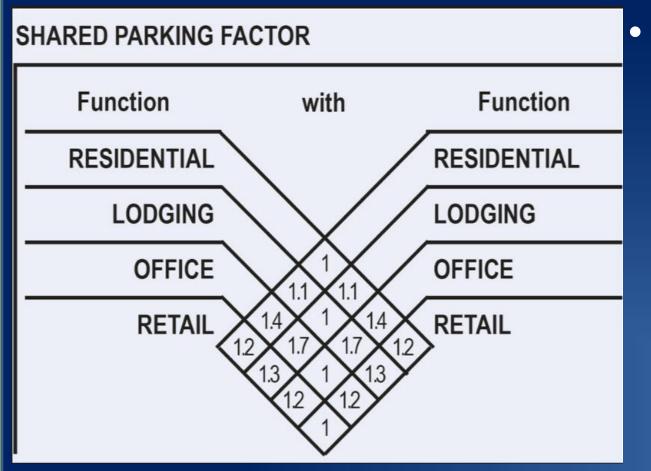
 This is what we are trying to avoid. Not Front Load Parking

 This is friendlier to nonmotorized travel.





## Mixed Use Parking NOT Max



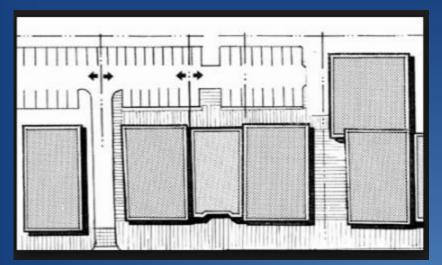
Same as shared parking in principle, but as part of the same site plan.



#### **Shared Parking**



Where uses with complimentary hours share parking capacity—not on the





# Require spaces or give reductions/bonuses for:

EV Spaces Carpool/Vanpool Space Transit Infrastructure Bikes (parking + bonus) Transit Connection (bonus)





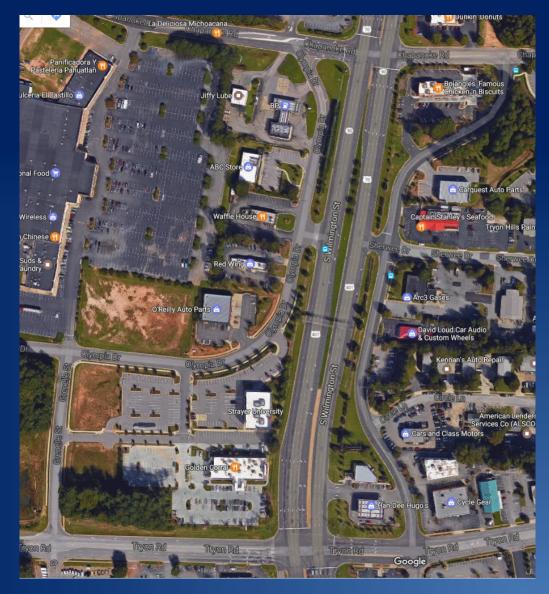


## T'fare Driveway Restriction



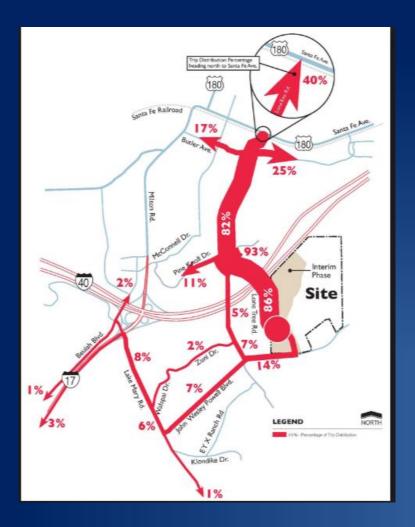


Frontage Road Provision

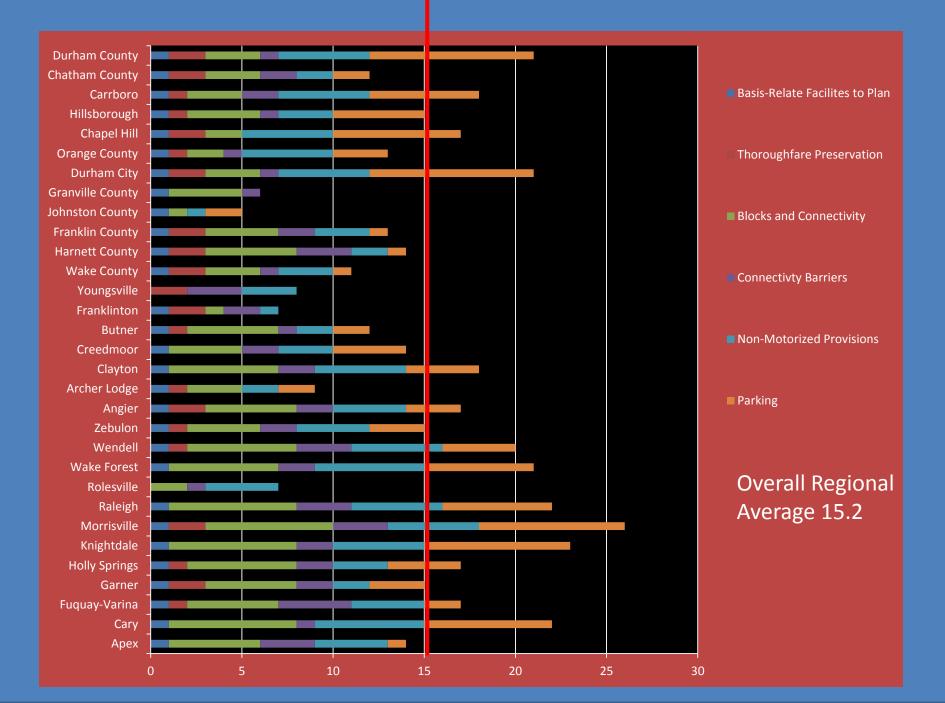




#### **TIA Requirement**







#### **Requested Action:**

### Please review and return with any changes by the May TCC meeting



### 5.4 Southeast Area Study

# CAMPO Staff and Kimley-Horn consultants will present the findings and recommendations of the Southeast Area Study.



# SEAS

#### SOUTHEAST AREA STUDY Archer Lodge • Benson • Clayton • Four Oaks • Garner Kenly • Micro • Raleigh • Selma • Smithfield • Wilson's Mills Johnston County • Wake County













### **Presentation Overview**

- Project Purpose and Timeline
- Outreach Efforts
- Recommendations
- Best Practices
- Questions









Kimley »Horn

## **PROJECT PURPOSE AND TIMELINE**

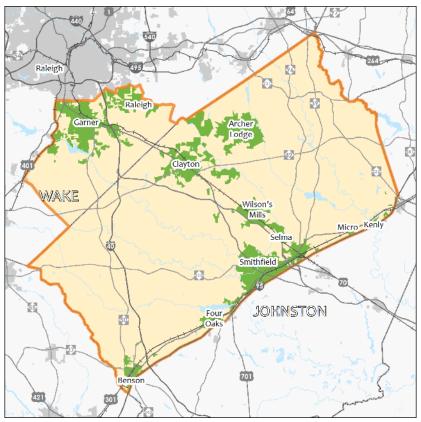




## **Project Purpose**

#### What will the study do?

- Update CAMPO's Comprehensive Transportation Plan
- Influence the development of CAMPO's Metropolitan Transportation Plan
- Identify transportation priorities for UCPRPO
- Provide data for future project prioritization efforts







## **Project Purpose**

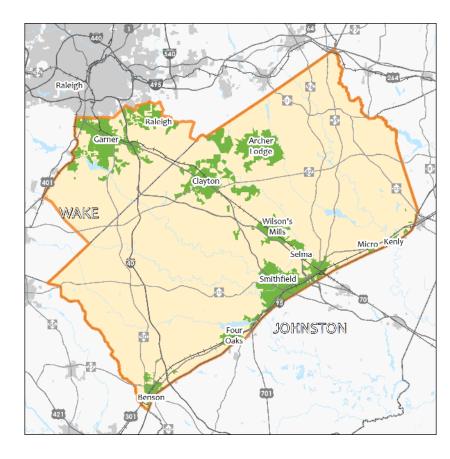
#### **Project Sponsor:**

The Capital Area Metropolitan Planning Organization (CAMPO)

#### Who is included?

Archer Lodge	Garner
Benson	Kenly
Clayton	Micro
Four Oaks	Raleigh
Johnston County	NCDOT

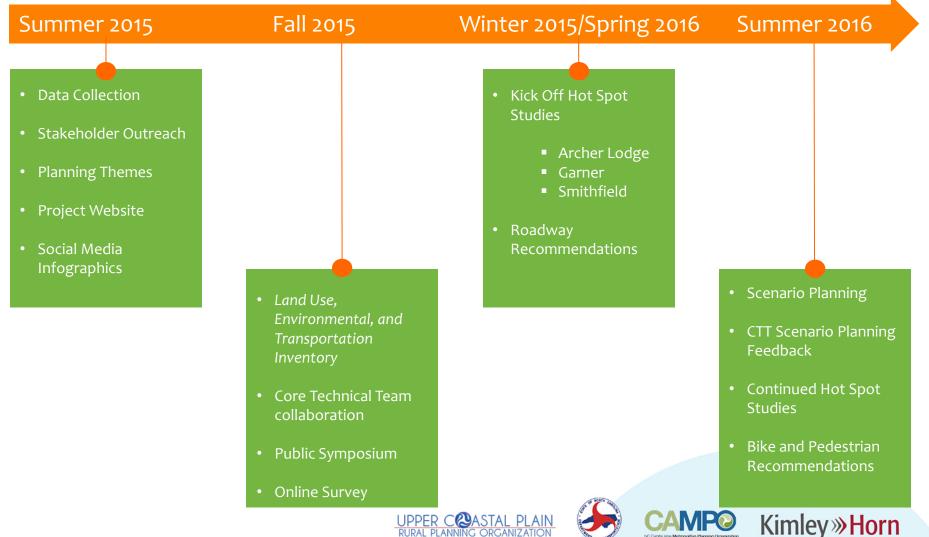
Selma Smithfield Wilson's Mills Wake County





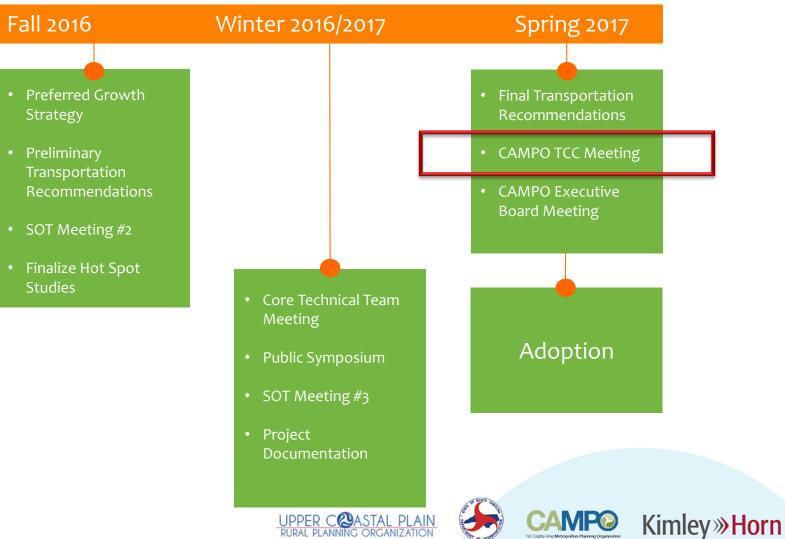


### **Project Timeline**





### **Project Timeline**





- Core Technical Team
- Stakeholder Oversight Team
- Public Symposia

# **OUTREACH EFFORTS**







### **Project Committees**

- Core Technical Team (9 meetings)
- Stakeholder Oversight Team (3 meetings)
- Composed of representatives from:
  - Archer Lodge
  - Benson
  - CAMPO
  - Clayton
  - Four Oaks
  - Garner
  - Johnston County
  - NCDOT

- Raleigh
- Selma
- Smithfield
- TJCOG
- UCPRPO
- Wake County
- Wilson's Mills







### **Two Public Symposia**

- October 8, 2015
- January 12, 2017









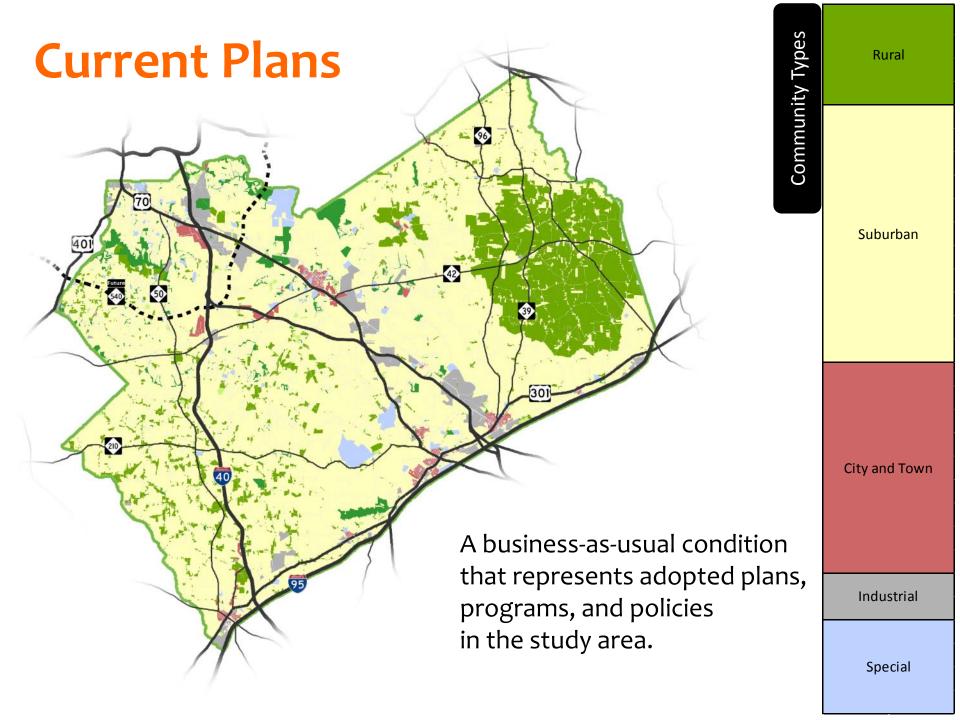


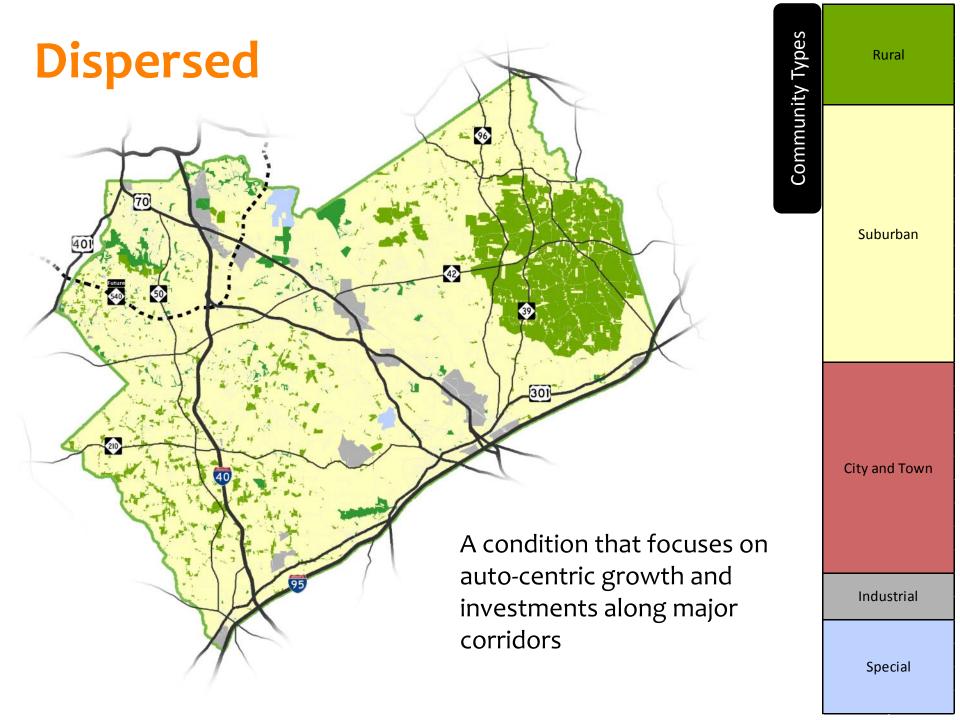
- Preferred Growth Strategy
- Hot Spot Recommendations
- Multimodal Recommendations

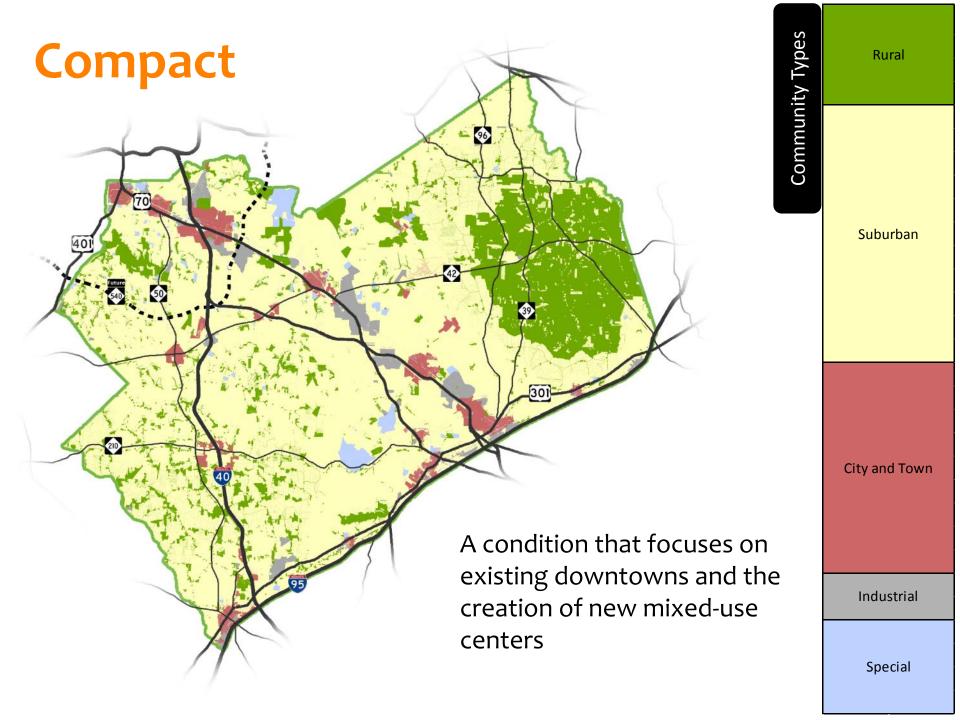
# TRANSPORTATION RECOMMENDATIONS











# SEAS SOUTHEAST AREA STUDY

Archer Lodge \* Benson \* Clayton \* Four Oaks \* Garner \* Kenly \* Micro \* Raleigh \* Selma \* Smithfield \* Wilson's Mills \* Johnston County \* Wake County

# 96 301 asttern naller lot residentia **Preferred Growth Strategy**

# Preferred vs. Current

Quality of Place	
Learning Centers Proximity to libraries and schools	→
Housing Diversity Mix of dwelling unit types within the study area	+-→
Access to Parks and Greenways Proximity to parks and greenways	<b>+→</b>
Jobs and Housing Balance Ratio of jobs to households within urban place types	•
Walkability Dwelling units within walkable place types	+

#### Sustainable Growth

Urban Footprint Growth in urban place types	+
Urban Density Density within urban place types	++
Water Consumption Average water consumption	•
Energy Consumption Average energy consumption	•

+)

i)

#### **Regional Transportation**

#### Vehicle Miles Traveled

Vehicle miles traveled (Triangle Regional Model)

#### Vehicle Hours Traveled

Vehicle hours traveled (Triangle Regional Model)

#### Congested Corridors

Miles of congested corridors

#### **Growth Distribution**

#### Context Distribution

Percent of land area by community type

	Current Plans	Preferred Scenario
City & Town	1.6%	2.8%
Suburban	74.4%	75.2%
Rural	15.7%	14.1%
Protected Green Space	2.8%	2.3%
Other	5.6%	5.6%

#### **Household Distribution**

Percent household growth allocated by community type

	Current Plans	Preferred Scenario
City & Town	4.2%	18.2%
Suburban	90.9%	73.7%
Rural	2.0%	1.4%
Protected Green Space	1.1%	1.3%
Other	1.8%	5.3%

#### Employment Distribution

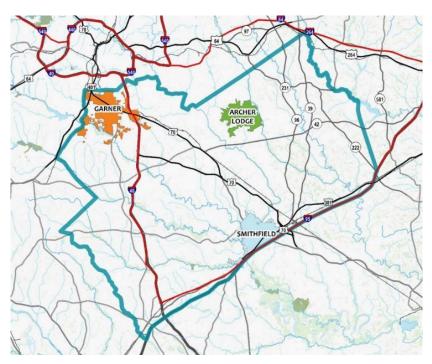
Percent employment growth allocated by community type

	Current Plans	Preferred Scenario
City & Town	15.2%	43.8%
Suburban	55.0%	31.8%
Rural	1.5%	1.2%
Protected Green Space	1.2%	1.4%
Other	26.7%	21.8%



- Archer Lodge Collector Street Plan
- Garner 40/70 Catalyst Site
- Smithfield Interchange Analysis

# HOT SPOT STUDIES







EAS SOUTHEAST AREA STUDY

#### Archer Lodge Collector Street Plan

### Planning for a Town Center

- New Civic facilities
- Complete Streets approach to Buffalo Road
- Enhanced mobility from new multi-use side path
- Improved streetscape and pedestrian environment
  - Street trees
  - High visibility cross-walks
  - Potential future signalization
  - Intersection gateway enhancements



Vision Plan









SEAS SOUTHEAST AREA STUDY

#### Archer Lodge Collector Street Plan

### **NCDOT Safety Improvements**

February Start 2017		2018	
Design	August Start		
	Right-of-way		August Start
			Construction







CAMPO

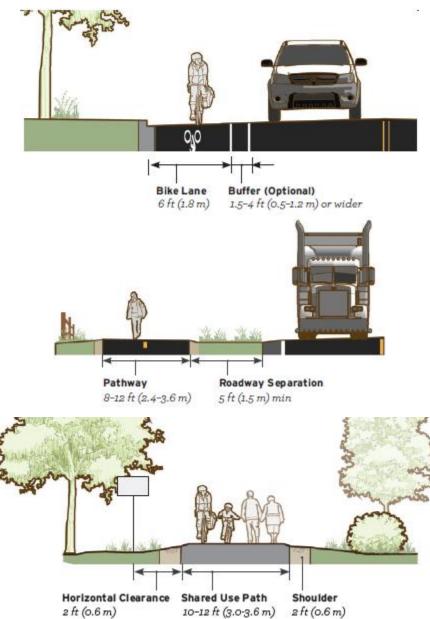


SEAS SOUTHEAST AREA STUDY

#### Archer Lodge Collector Street Plan

### **Greenways and Trails**

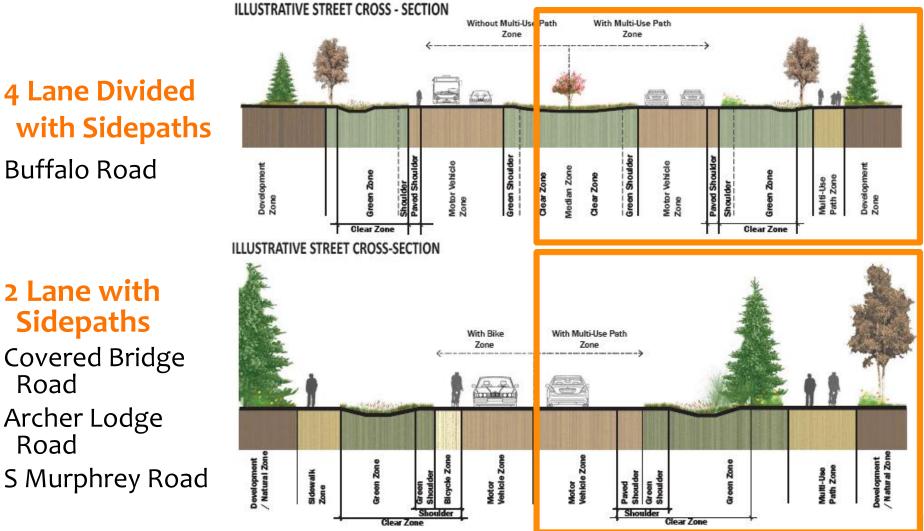






**Archer Lodge Collector Street Plan** 

## **Completing the Streets**



### 2 Lane with **Sidepaths**

**Buffalo Road** 

- **Covered Bridge** Road Archer Lodge Road
- S Murphrey Road



SEAS SOUTHEAST AREA STUDY

#### Archer Lodge Collector Street Plan

# **Completing the Streets**









der Latter + Benaar + Charles + Franchike + Camer + Karra + Micca + Galaxie + Saltra + Schröde + Weberh Witz + Ethenne b

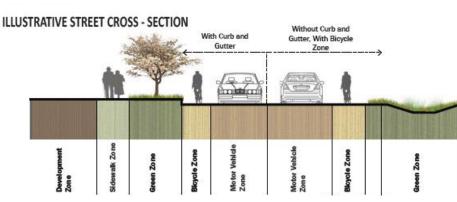
#### Archer Lodge Collector Street Plan

### **Connector Streets**

The primary purpose of a connector street is to collect traffic from neighborhoods and distribute it to the system of major and minor thoroughfares.

#### WHY?

- Offers options to avoid congested intersections
- Reduces reliance on major routes
- Integrates bicyclists and pedestrians
- Improves emergency response time **HOW**?
- Incrementally as development occurs
- Making meaningful connections with local streets
- Posted speed limits less than 35MPH





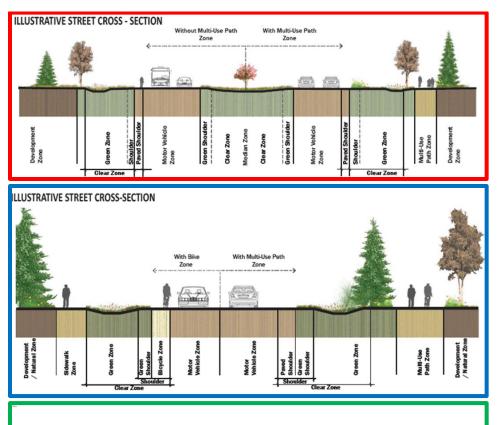






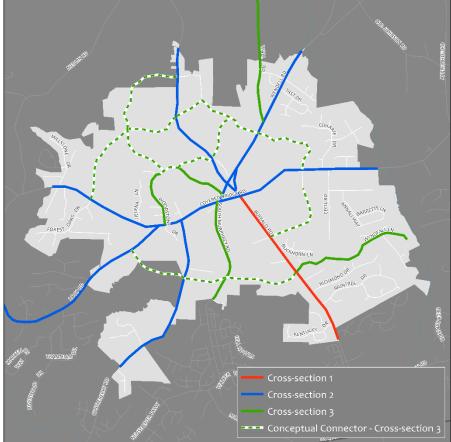
#### Archer Lodge Collector Street Plan

SOUTHEAST AREA STUDY



SEAS

### Putting the System Together







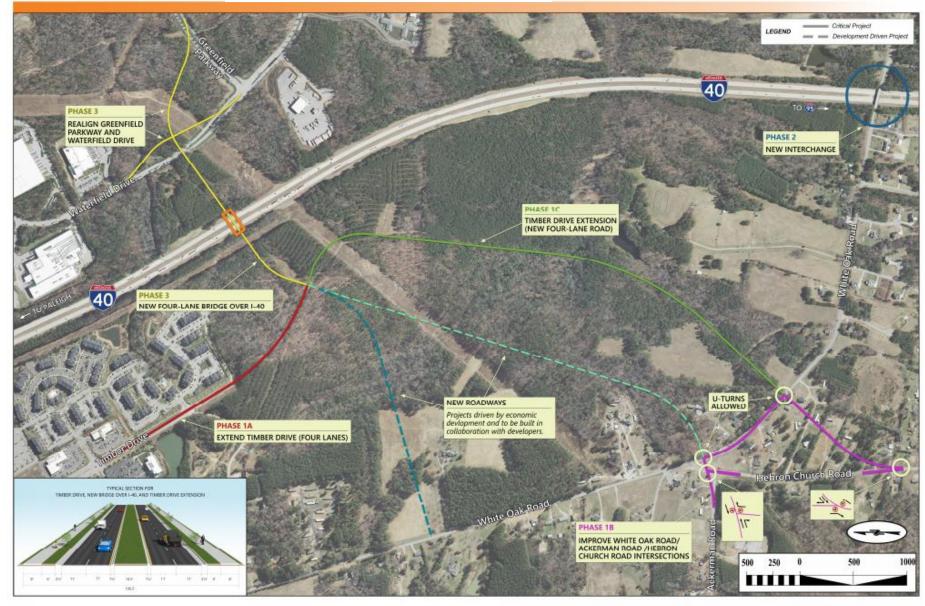




#### Garner 40/70 Catalyst Site

SOUTHEAST AREA STUDY

SEAS





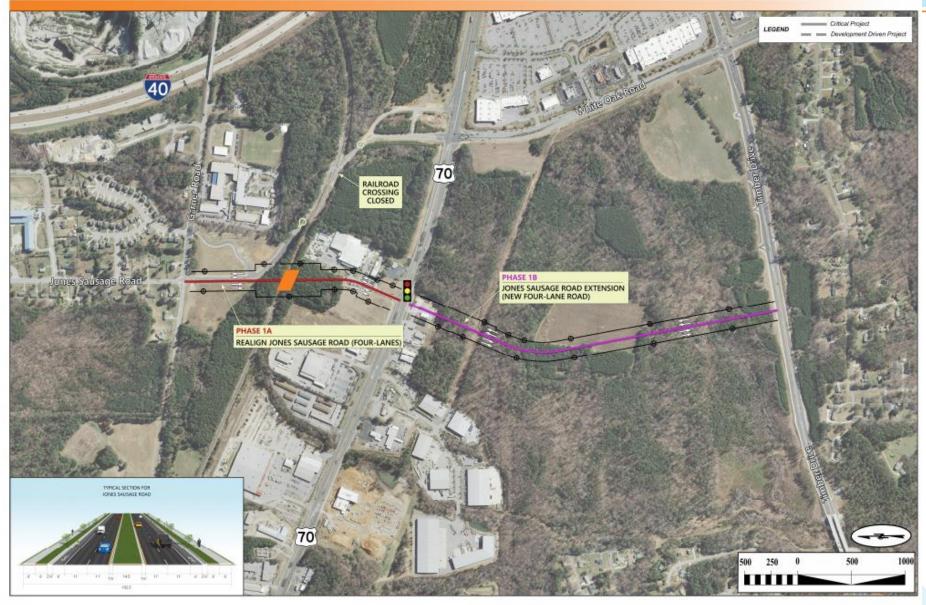




#### Garner 40/70 Catalyst Site

SOUTHEAST AREA STUDY

SEAS



UPPER COASTAL PLAIN



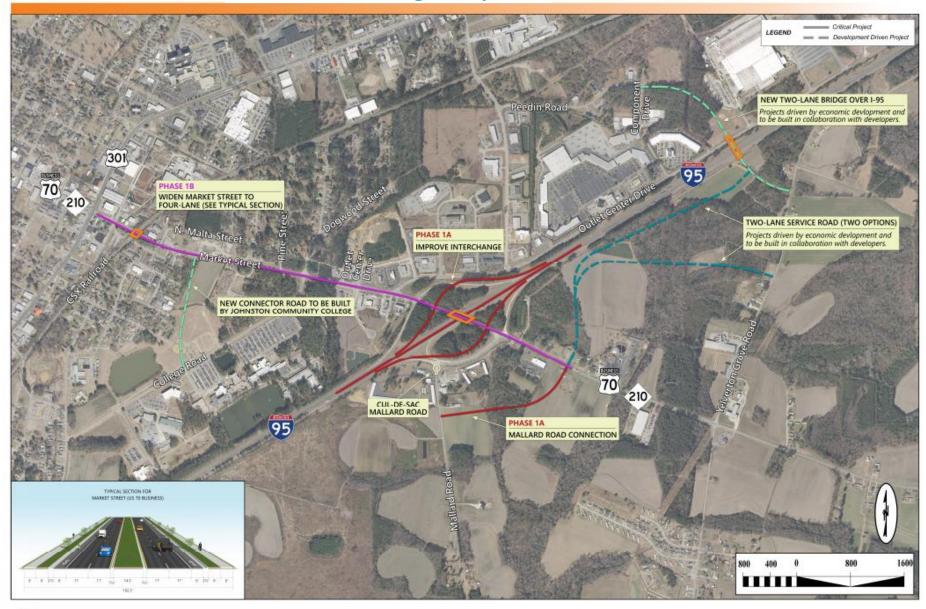




**Smithfield Interchange Analysis** 

OUTHEAST AREA STUDY

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OUTHEAST AREA STUDY

#### **Smithfield Interchange Analysis**

## **Market Street** (US 70 Business) **Photosimulation**







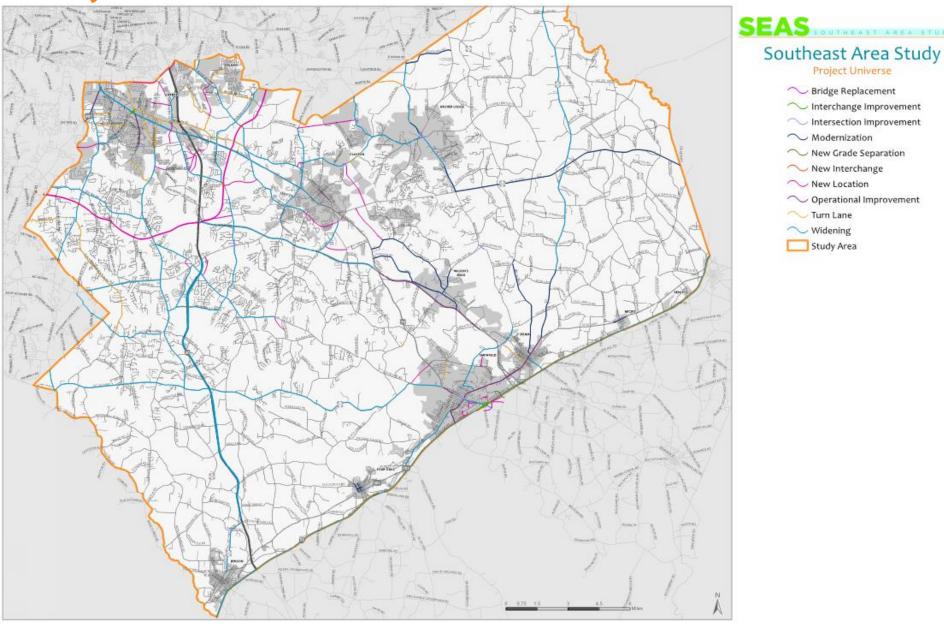
- Roadway Recommendations
- Bicycle and Pedestrian Recommendations
- Transit Recommendations

# FINAL RECOMMENDATIONS

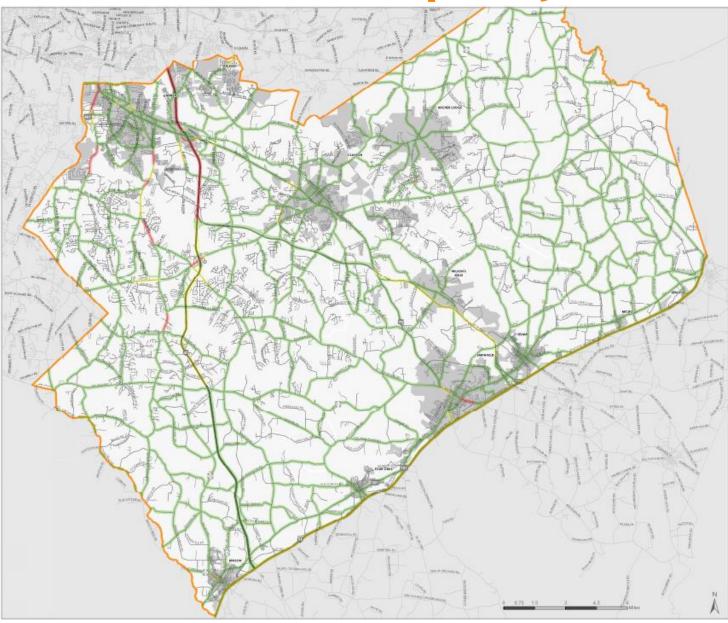




### **Project Universe**

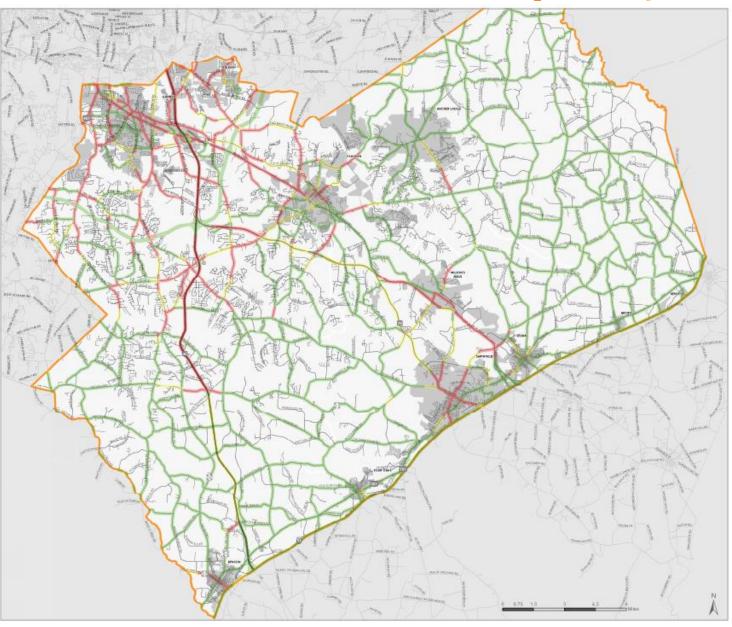


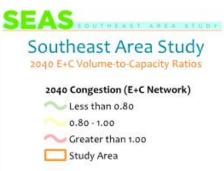
### 2010 Volume-to-Capacity Ratios



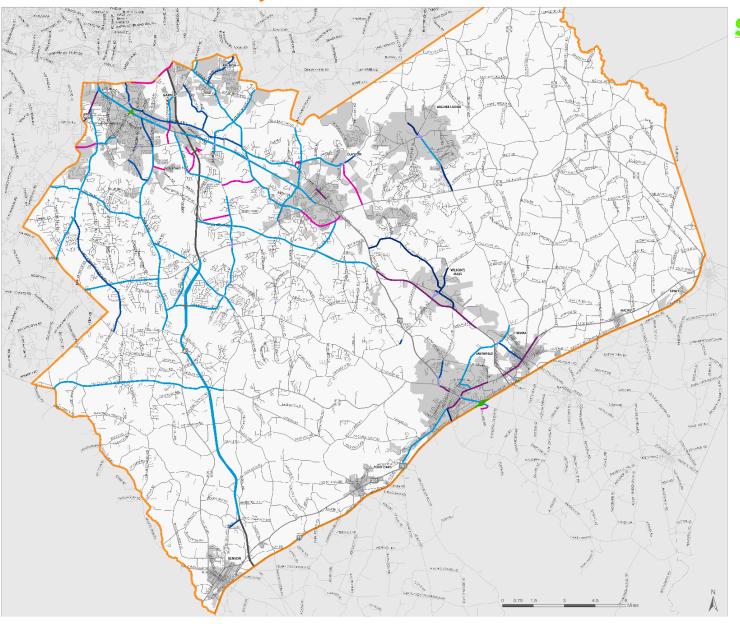


### 2040 E+C Volume-to-Capacity Ratios





### **Critical Projects**

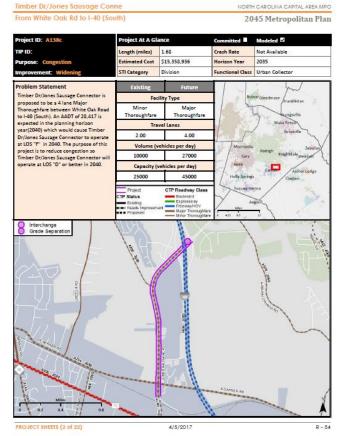


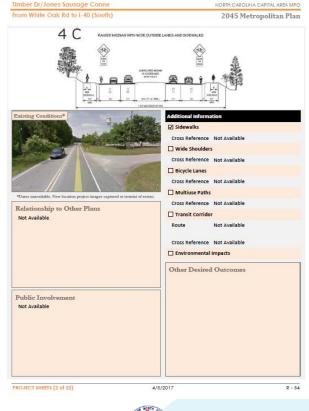
SEAS SOUTHEAST AREA STUDY Southeast Area Study Critical Projects

- $\sim$  Bridge Replacement
- ∼ Interchange Improvement
- ∼ Intersection Improvement
- $\sim$  Modernization
- ∼ New Grade Separation
- ∼ New Interchange
- $\sim$  New Location
- $\sim$  Operational Improvement
- ╲ Turn Lane
- 🔷 Widening
- 🛄 Study Area



### **Updated Project Sheets (100)**

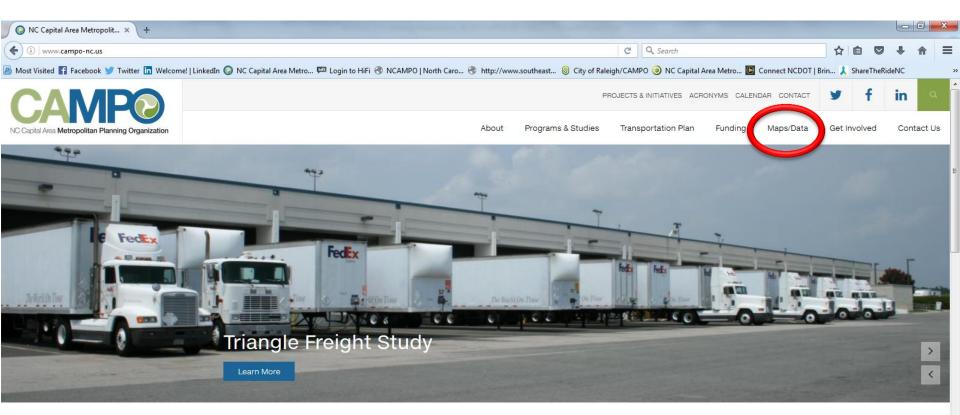












Welcome to the North Carolina Capital Area Metropolitan Planning Organization (CAMPO)! We are a regional transportation planning organization serving communities in Franklin, Granville, Harnett, Johnston and Wake Counties. Please explore our website for more information on our current plans and projects, upcoming meetings, and long-range planning efforts.

The MPO's Technical Coordinating Committee meets on the first Thursday of each month at 10:00 a.m. The Executive Board meets on the third Wednesday of each month at 4:00 n.m. Agendas and meeting minutes can be found online. Usually about

#### **Public Notice**

Wake Transit FY 2018 Proposed Work Plan

Southeast Area Study

Wake Transit Participation Agreement

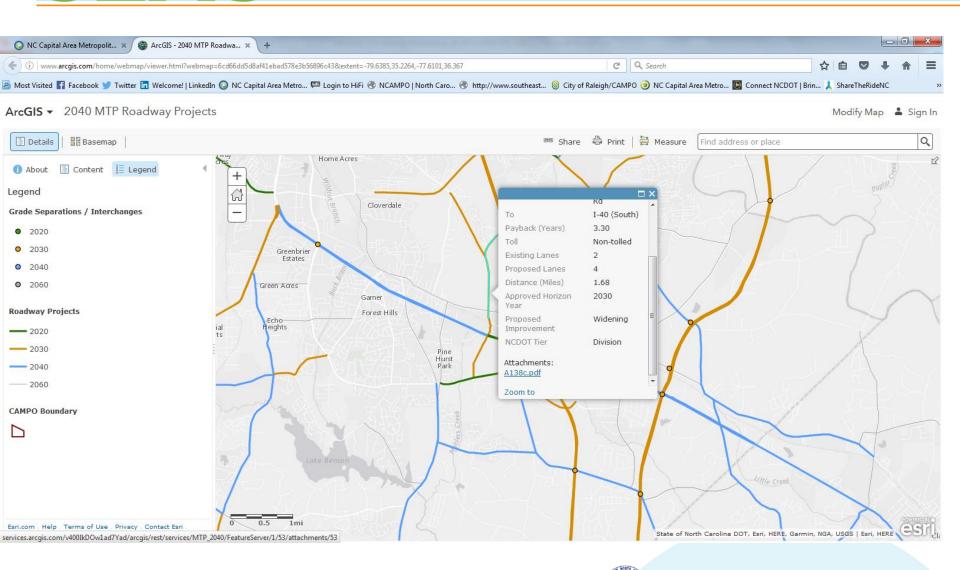






SOUTHEAST AREA STUDY

SEAS

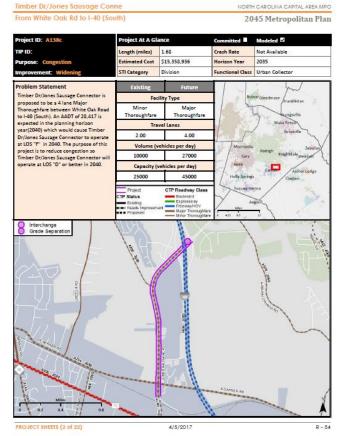


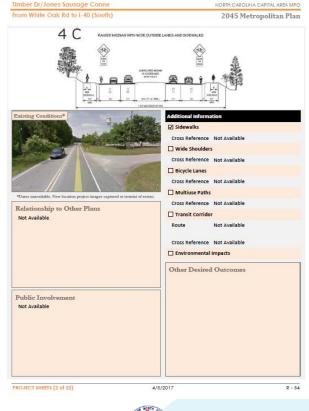






## **Updated Project Sheets (100)**









Kimley »Horn



## **Transit Analysis**

		Population		Employment					
Transit Mode/ Service Frequencies	Dwelling Units/Acre	Population/ Acre	Population/ Square Mile	Jobs/ Acre	Jobs/ Square Mile	Million Sq Ft Commercial Space			
Flex Bus	0.2	0.5	320						
<b>Community Circulator</b>	0.8	2	1,300						
Local Bus									
60 minutes	3-6	8-16	5,000-10,000	4-8	2,500-5,000	5-8			
30 minutes	6-12	16-31	10,000-20,000	8-16	5,000-10,000	8-20			
15 minutes	12-18	31-47	20,000-30,000	16-24	10,000-15,000				
10 minutes	18-36	47-92	30,000-60,000	24-48	15,000-30,000				
<=5 minutes	>36	>92	>60,000	>48	>30,000				
Bus Rapid Transit	10-20	26-52	17,000-33,000	>13	>8,500				
Light Rail Transit	12-30	31-78	20,000-50,000	>15	>10,000				
Heavy Rail	>17	>45	>30,000						
Commuter Rail	20	50	16,000-32,000						

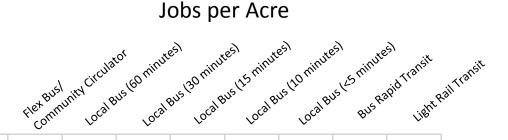


Kimley **»Horn** 

CAMPO



## **Transit Analysis**

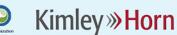


		0-4	4-8	8-16	16-24	24-48	>48	>13	>15
Flex Bus	0.2-0.8								
Community Circulator	0.8-3.0								
Local Bus (60 minutes)	3-6								
Local Bus (30 minutes)	6-12								
Local Bus (15 minutes)	12-18								
Local Bus (10 minutes)	18-36								
Local Bus (<5 minutes)	>36								
Bus Rapid Transit	10-20								
Light Rail Transit	12-30								
Heavy Rail	>17								
Commuter Rail	20								

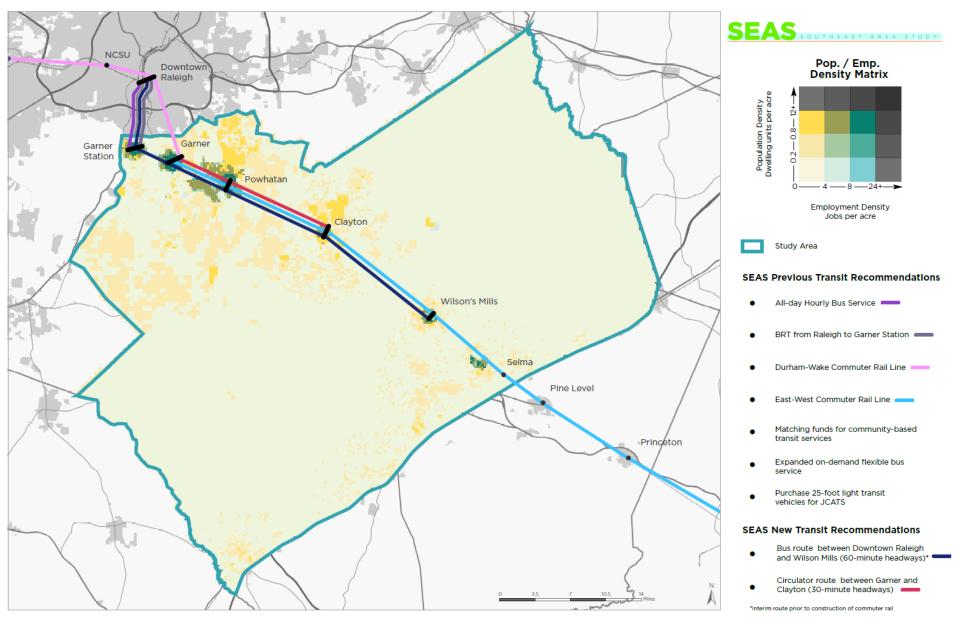
**Dwelling Units per Acre** 







## **2040 Transit Recommendations** *Preferred Growth Strategy*





- Implementation Strategies
- Regulations & Policies
- Possible Incentives

## **BEST PRACTICES**





### **IMPLEMENTATION TOOLKIT**

#### Preliminary Draft and Outline

#### **Study Objectives**

The Capital Area Metropolitan Planning Organization (CAMPO), building on the work completed through the Southwest Area Study and Northeast Area Study, has initiated the Southeast Area Study which includes all or part of eleven municipalities and portions of Wake and Johnston counties. The Southeast Area Study will update CAMPO's overall Comprehensive Transportation Plan and will produce project priorities to be included in the next Metropolitan Transportation Plan.

#### **Implementation Tookit**

The SEAS has completed work on setting transportation goals and establishing themes for focus in this area. Local plans and policies have been reviewed, and a Preferred Growth Scenario has been established. This piece of the project highlights steps that can be considered to implement the Study's recommendations.

## **Implementation Strategies**



## SEAS SOUTHEAST AREA STUDY

Archer Lodge \* Benson \* Clayton \* Four Oaks \* Garner \* Kenly \* Micro \* Raleigh \* Selma \* Smithfield \* Wilson's Mills \* Johnston County \* Wake County

# 96 301 asttern naller lot residentia **Preferred Growth Strategy**



## **Review of Regulations and Policies**

	Development Regulations	Land Use/ Comprehensive Plans	Small Area Plans	Streetscape/ Design Guidelines	Hazard Mitigation Plans	Other Plans (Downtown, Etc.)
Johnston County	x	x			x	x
Archer Lodge	x	x				x
Clayton	x	x	x	x		x
Wilson's Mills	x	x				
Selma	x					
Smithfield	x	x				
Four Oaks	x					
Benson	x					
Micro	x					
Kenly	x	x				
Wake County	x	x	x		x	x
Garner	x	x	x	x		
Raleigh	x	x	x	x	x	x



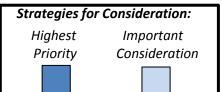
## List of Possible Initiatives

- Adjust Future Land Use Plans
- Add new provisions to zoning ordinances
- Encourage higher densities in key locations
- Pursue techniques to restrict development in key locations
- Promote nodal development along key transportation corridors
- Adjust zoning to encourage mixed-use development
- Prepare downtown development strategies
- Provide for a range of housing types
- Encourage re-use of older buildings
- Designate areas for additional Small Area Planning
- Construct Interlocal Agreements for Land Use Management
- Prepare design guidelines for nodes and corridors
- Prepare design standards for freight-movement areas
- Adjust parking requirements
- Connect neighborhoods and limit cul-de-sacs
- Coordinate/Calibrate Capital Investment Plans for key infrastructure
- Create requirements/incentives for bike/pedestrian improvements
- Coordinate/Calibrate Economic Development Plans





## **Recommended Priority Strategies**



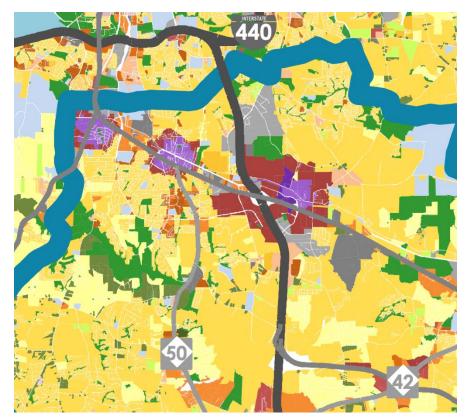
	Comp Plan	Zoning	More Dense	Less Dense	Corridors	Mixed Use	Downtown	Housing	Bldg Re-Use	Area Plans	Interlocal	Design	Freight	Parking	Connect	CIP	Bike-Ped	Ec. Devt.
Johnston County																		
Archer Lodge																		
Clayton																		
Wilson's Mills																		
Selma																		
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Kenly																		
Wake County																		
Garner																		
Raleigh																		



## Garner Area



Current Land Use Plans



SEAS Preferred Scenario





List of Strategies

to Achieve

Preferred

Scenario

## Recommendations

## for Garner

(Highest Priority Strategies highlighted in **red**, others highlighted in orange.)

#### • Adjust Future Land Use Plan

- Add New Provisions to Zoning Ordinances
- Encourage Higher Densities in Key Locations
- Encourage Conservation in Key Locations
- Promote Nodal Development along Key Transportation Corridors
- Adjust Zoning to Encourage Mixed-Use Development
- Prepare Downtown Development Strategies
- Provide for a Range of Housing Types
- Encourage Re-use of Older Buildings
- Designate Areas for additional Small Area Planning
- Construct Interlocal Agreements for Land Use Management
- Prepare Design Guidelines for Nodes and Corridors
- Prepare Design Standards for Freight-Movement Areas
- Adjust Parking Requirements
- Connect Streets
- Coordinate/Calibrate Capital Investment Plans for Key Infrastructure
- Create Requirements/Incentives for Bike/Pedestrian Improvements
- Coordinate with Economic Development Plans



## Strategy: Adjust Future Land Use Plan

Update Garner's 2006 Comprehensive Growth Plan (initiative currently underway). Include consideration of SEAS recommended Future Land Use Patterns.

#### Benefits:

- Articulate a vision aligned with neighboring jurisdictions.
- Provide clarity regarding community preferences.
- Provide encouragement and certainty to development community.
- Increase focus on land with access to main transportation corridors.

#### What Can Be Done:

- Increase emphasis on compact, mixed use development at activity centers.
- Provide policy guidance regarding infrastructure investment.
- Identify areas for adjustment in Unified Development Ordinance.

- Greenville NC Community Plan
- Wilson NC Tiered Growth System





## Strategy: Adjust Zoning to Encourage Mixed-Use Development

Adjust Garner's Unified Development Ordinance to permit higher density in key locations. Adjust Zoning Map to allow greater density and mixed use in designated activity centers.

#### <u>Benefits</u>:

- Adjust regulations to more closely align with policy framework.
- A balanced mix of commercial and residential uses.
- Efficient use of public infrastructure.
- Increased productivity on land with access to main transportation corridors.

#### What Can Be Done:

- Rely on new *Garner Forward* recommendations to identify priority zoning amendments.
- Create/amend zoning districts and rules to focus on mixed use opportunities as shown on the preferred growth strategy.

- Morrisville NC Unified Development Ordinance
- Chapel Hill NC zoning incentives/requirements for mixed use areas.





## Strategy: <u>Prepare Downtown Development Strategies</u>

Prepare plan for redevelopment and revitalization of Garner's Downtown Area, including focus on street connections, economic development initiatives, public improvements, mix of uses, and design standards.

#### Benefits:

- Encourage increased economic activity.
- Maximize the efficient use of existing public infrastructure.
- Maximize local trips and travel patterns.
- Enhance culture and opportunity for more active lifestyles.
- Increase tax revenues.

#### What Can Be Done:

- Adjust zoning regulations to increase flexibility in Downtown locations especially residential and mixed use and create supportive parking policies (parking maximums, consideration of on-street parking, shared-use parking, parking credits).
- Prioritize Downtown improvements in capital expenditures.
- Identify and implement street connection opportunities.

- Apex NC Small Town Character Overlay District
- Chapel Hill Downtown 2020 Strategy and Work Plan





#### Strategy: Connect Streets

A contributing factor to traffic congestion on major streets is minor streets which do not connect with each other, concentrating traffic, causing longer, indirect trips and limiting opportunities for alternate routes and circulation. Connecting streets provides choices for travel between destinations.

Benefits:

- Reduce travel times and vehicle miles traveled.
- Increase viability of walking, biking, and public transportation.
- Improved response times for emergency public services.
- Reduce reliance on major roadways.

#### What Can Be Done:

- Develop a collector street plan with design standards, spacing, and access requirements.
- Seek/require consistency with adopted street plans and policies during development process.
- Identify opportunities to repurpose right-of-way to enhance connectivity with an emphasis on pedestrian and bicycle infrastructure.
- Focus on connectivity to schools, parks, civic uses, and regional connections.
- Establish requirements to minimize cul-de-sacs, and provide stub-outs for future connections.
- Consider establishing and using a street connectivity index.

- Charlotte NC Street Connectivity Program
- Morrisville NC Unified Development Ordinance
- NC Safe Routes to School Program





## **Next Steps**

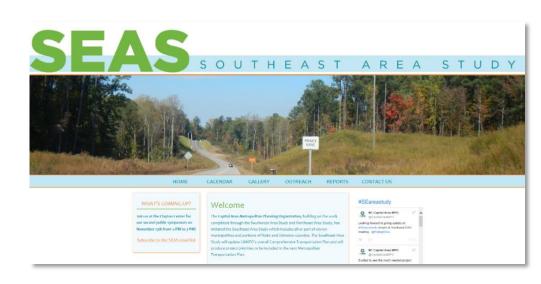
- Local endorsement by CAMPO members
- CAMPO endorsement April





## **Project Contact Information**

- http://www.southeastareastudy.com
- @CapitalAreaMPO
- #SEAreaStudy
- Alex Rickard, CAMPO
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  - 919-996-4396
- Allison Fluitt, Kimley-Horn
  - allison.fluitt@kimley-horn.com
  - 919-653-2947



Kimley *Whorn* 



# SEAS

#### SOUTHEAST AREA STUDY Archer Lodge • Benson • Clayton • Four Oaks • Garner Kenly • Micro • Raleigh • Selma • Smithfield • Wilson's Mills Johnston County • Wake County











## 5.4 Southeast Area Study

## **Requested Action:**

Recommend Executive Board endorse SEAS project recommendations for consideration in development of 2045 Metropolitan Transportation Plan



## 2045 Metropolitan Transportation Plan (MTP)

Long-range guide for major transportation investments for the North Carolina Capital Area Metropolitan Planning Organization

Recommends major transportation projects, systems, policies and strategies designed to maintain our existing systems and serve the region's future mobility needs

The Capital Area MPO MTP is integrated with land use and air quality strategies and goals for the urban area.



## **Building 2045 MTP Financial Forecast**

- Based on federal and state data for "traditional funding"
- Wake Transit Plan financial forecast (*modified/extended*)
- Local funding
- How have we done this in the past?



## Previous Revenue Assumptions (2035 LRTP)

### **Roadway Projects:**

- NCDOT revenue model for gas taxes and fees
- 4 percent/yr inflation factor (cost and revenue)
- Toll projects pay for themselves (tolls, bonds, and state gap funding)
- Local and private funding (\$1 Billion)

## **Bus Transit Projects:**

- Computed trend for each transit system for
  - Federal/State/Local funding
  - Capital/Operations & Maintenance
  - Farebox recovery



## 2035 LRTP "New" Revenue Sources

ITEM	ASSUMPTION	ASSUMED NEW REVENUE by 2035 (millions)	STATUS
Sales Tax #1	Transit <sup>1</sup> / <sub>2</sub> cent sales tax beginning in 2011	\$1,576	Enabling Legislation passed in 2009
Car Registration Fee	<ul> <li>\$10 increase in vehicle registration fee in 2011</li> <li>TTA increase \$5 to \$8</li> <li>Wake County \$7 new fee</li> </ul>	\$185	Enabling Legislation passed in 2009
Sales Tax #2	Roadway $\frac{1}{2}$ cent sales tax beginning in 2016	\$1,140	No Enabling Legislation
Regional/Local/ Private Support	Increased Municipal contributions for required match on specific projects	\$1,258	Currently used for some projects
New Federal/State Infrastructure Program(s)	New funding for Strategic Highway Corridors. Average \$53 million/yr beginning in 2016	\$1,060	NC Mobility Fund beginning in 2014 (includes "Loop Projects")
Finance for I-40 managed lanes	Included above	Included above	
	Total Assumed New Revenue by 2035 (millions)	\$5,804	No new revenue sources have been implemented

## 2040 Revenue Assumptions

## Roadway Projects:

- NCDOT revenue model for gas taxes and fees
- Annual inflation factor (cost and revenue)
- Toll projects estimates based on latest NCTA forecast (tolls, bonds, and gap funding if needed
- Local and private funding

## Transit Projects:

- Computed trend for each transit system for
  - Federal/State/Local funding
  - Capital/Operations & Maintenance
  - Farebox recovery



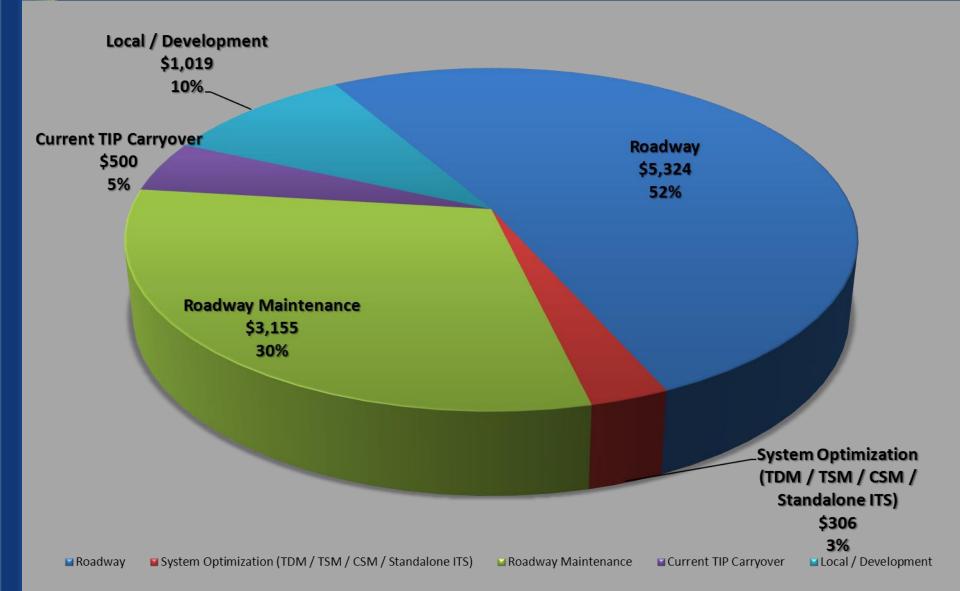
## 2040 MTP Revenue Forecast

### Our Revenue Forecast is derived from:

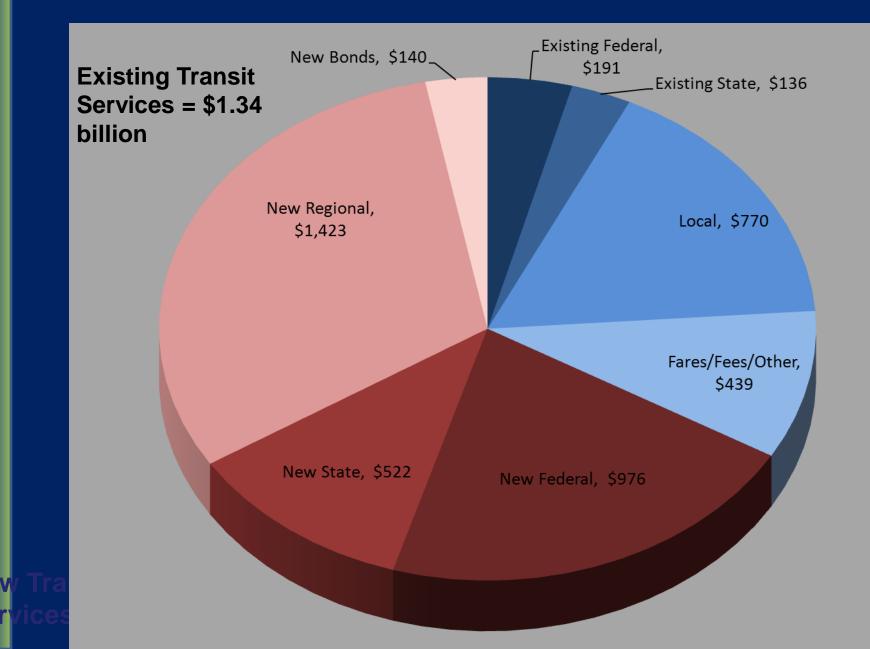
- 1<sup>st</sup> Decade:
  - Draft TIP/STIP (10 yr Work Program)
- 2<sup>nd</sup> & 3<sup>rd</sup> Decades:
  - "Traditional" Federal & State Funds
  - MPO portion based NCDOT Financial Forecast
- Transit Funds
  - Wake Transit Plan Forecast (modified)
- Local Revenue
  - Based on Local CIPs / Development Activity



### Financial Plan- Capital Area MPO 2011-2040 Roadway (in 2012 millions \$)



## Financial Plan- Capital Area MPO 2011-2040 Transit (in 2012 millions \$)



## Financial Plan-Capital Area MPO 2011-2040 (in millions \$)



- Roadway
- Local / Developer
- Current TIP Carryover
- Transit

System Optimization (TDM / TSM / CSM / Standalone ITS)

Bike/Ped

## Financial Plan – Capital Area MPO 2011- 2040 (in millions \$)



Bike/Ped

- Local / Developer
- Current TIP Carryover
- Transit

## 2040 MTP "New" Funding Options

ITEM	ASSUMPTION	ASSUMED NEW REVENUE (millions in 2012 dollars)	STATUS
Wake I	Roadway ½ cent sales tax equivalent (STE) beginning in 2021-30 (Wake County)	\$466	No Enabling Legislation
Wake II	Roadway 1 cent sales tax equivalent (STE) beginning in 2031-40 (Wake County)	\$836	No Enabling Legislation
Johnston I	Roadway ½ cent sales tax equivalent (STE) beginning in 2031-40 (Johnston County)	\$35.7	No Enabling Legislation
Harnett I	Roadway ½ cent sales tax equivalent (STE) beginning in 2031-40 (Harnett County)	\$6.6	No Enabling Legislation
Granville I	Roadway ½ cent sales tax equivalent (STE) beginning in 2031-40 (Granville County)	\$2.8	No Enabling Legislation
Franklin I	Roadway ½ cent sales tax equivalent (STE) beginning in 2031-40 (Franklin County)	\$7.2	No Enabling Legislation
Total Assume	d New Revenue 2021-40 (millions in 2012 dollars)	\$1,354	No new revenue sources have been implemented

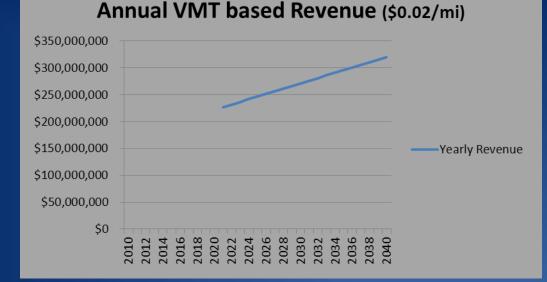
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Total Assume	d New Revenue 2021-40 (millions in 2012 dollars)	\$1,354	No new revenue sources have been implemented

## VMT Based Revenue (2021-2040)

- VMT based Revenue (2021-40)
   Approximately \$5.4 Billion
  - \$0.02 / mile

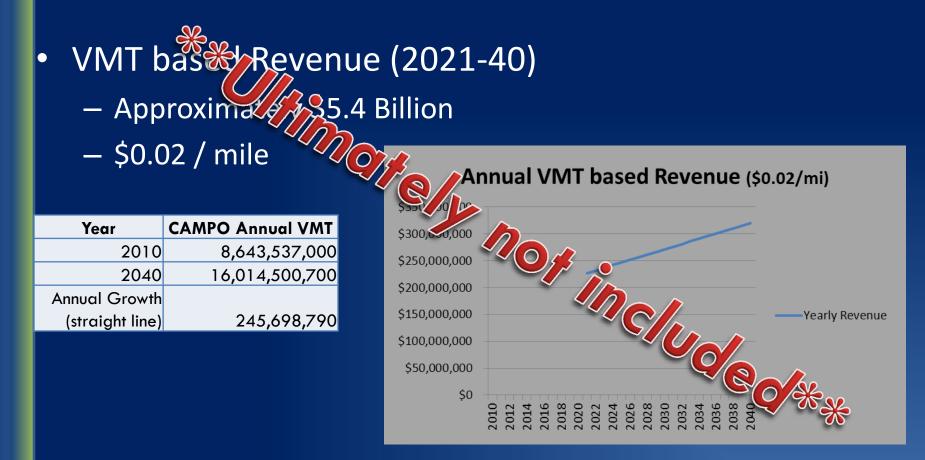
Year	CAMPO Annual VMT
2010	8,643,537,000
2040	16,014,500,700
Annual Growth	
(straight line)	245,698,790



- Current Gas Tax Revenue:
  - Approximately \$0.011 / mile (VMT Equivalent)



## VMT Based Revenue (2021-2040)



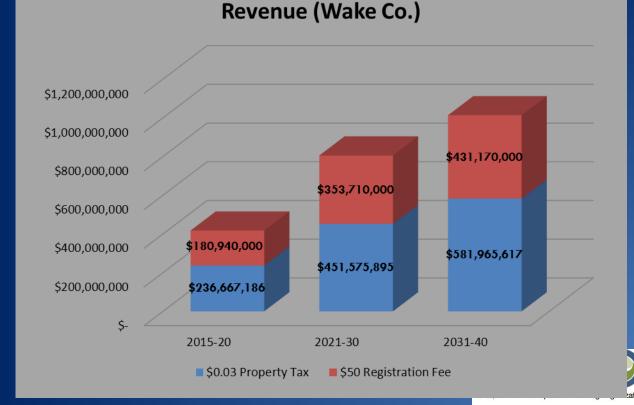
- Current Gas Tax Revenue:
  - Approximately \$0.011 / mile (VMT Equivalent)



#### Property Tax & Registration Fee Based Revenue (2021-2040)

#### Wake County example:

- \$0.03/mil
- -\$50 Annual Vehicle Registration Fee
- Approx. \$2.23 Billion



Sample Property Tax/Annual Registration Fee

Property Tax & Registration Fee Based Revenue (2021-2040)



#### What has changed for 2045 MTP?

#### • At the federal level (FAST ACT)

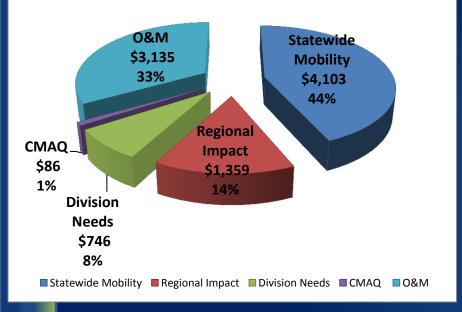
- Funding levels and rules
- Performance based approach
- At the state level (STI)
- At the regional/local level
  - Updated and adopted Wake Transit Plan
  - Local funding



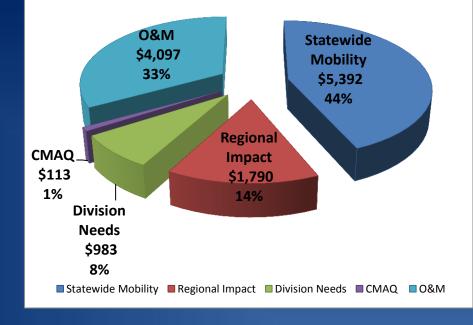
# 2045 **Preliminary** Financial Forecast (Traditional *Funding*)

#### Moderate

#### Aspirational



\$9.43 Billion

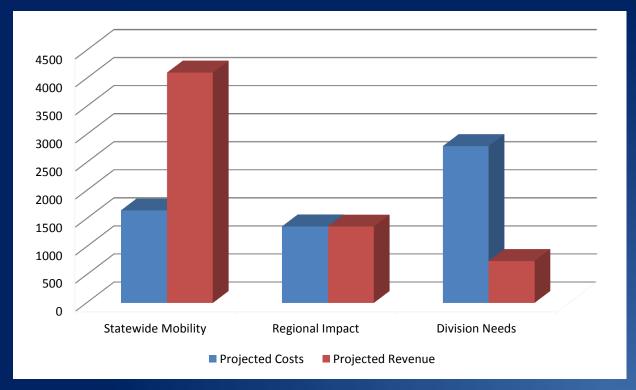


#### \$12.37 Billion



#### 2045 Preliminary Revenue vs. Project Costs (Roadway)

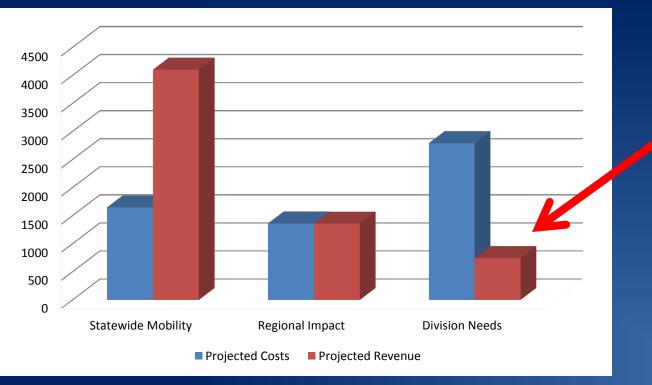
#### Moderate Scenario





#### 2045 Preliminary Revenue vs. Project Costs (Roadway)

#### **Moderate Scenario**



\$1.9 Billion more cost than current revenue projection



#### **CONTINUED CHALLENGES**

The gap between the region's transportation needs and available funding presents several challenges that we must soon address:

- Short and long term non-traditional funding sources
- Local and regional revenue options
- Advancement of MTP projects to implementation consistent with the air quality conformity project implementation schedule.
- Monitoring regional growth to ensure the Plan stays abreast of the region's needs



#### CHALLENGES

The gap between the region's transportation needs and available funding presents several challenges that we must soon address:

Short and long term non-traditional funding sources

Local and regional revenue options

- Advancement of MTP projects to implementation consistent with the air quality conformity project implementation schedule.
- Monitoring regional growth to ensure the Plan stays abreast of the region's needs



#### **Alternatives Analysis**

Scenario	By Right (e.g. zoning) SE Data	2045 Community Plans SE Data	AIM High SE Data
Existing & Committed Projects			
Moderate Network		$\boldsymbol{\bigotimes}$	
Aspirational Network			*



## Alternatives Analysis

Moderate Network

- Major Roadway Investments
  - Completion of the Outer Loop
  - Widening/Improving I-40, I-440, US 401, US 1, US 64, US 70, NC 42, NC 50, NC 54, NC 55, NC 98
  - Additional secondary roadway investments in 3<sup>rd</sup> decade
- Major Transit Investments (WTP + 20yrs)
  - Commuter Rail from Garner to Durham
  - BRT Infrastructure and Service in Capital, New Bern, Wilmington, and Western/Chatham/NC 54 corridors
  - Continuation of WTP frequent bus network
  - Community Funding Areas



## **Alternatives Analysis**

#### Aspirational Network

- Major Roadway Investments
  - Completion of the Outer Loop
  - Widening/Improving I-40, I-440, US 401, US 1, US 64, US 70, NC 42, NC 50, NC 54, NC 55, NC 98
  - Additional secondary roadway investments in 2<sup>nd</sup> and 3<sup>rd</sup> decades
- Major Transit Investments (WTP + 20yrs)
  - Commuter Rail Service extended to Selma and Mebane
  - Commuter Rail Service from Wake Forest to Apex
  - BRT Infrastructure and Service extended/enhanced in Capital, New Bern, Wilmington, and Western/Chatham/NC 54 corridors
  - BRT Service to midtown Raleigh
  - BRT Service in Harrison/Kildaire Farm corridor
  - Continuation of WTP frequent bus network
  - Continuation of Community Funding Areas



#### **Upcoming MTP Milestones**

ltem	Anticipated TCC Updates
Alternatives Analysis Review	April – May 2017
Revenue Forecast Updates	April - Aug. 2017
Preliminary Draft Financial Plan	June 2017
Public Involvement	Summer 2017
"Final" Draft Plan	August 2017
Public Hearing	August/September 2017
Adopt 2045 Plan	September 2017

Requested Action: Receive as Information



## 5.6. CAMPO Staff Addition: TPAC /Wake Transit Administration

- Administration of the Transit Planning Advisory Committee (TPAC) has continued to evolve. Draft FY 2018 Wake Transit Work Plan and CAMPO UPWP includes resources for the MPO to provide full time administrative and management support of the TPAC administrative activities.
  - Will enable high quality administrative support and coordination services for the TPAC
  - Provide more focused technical-level attention to transit plan implementation management, processes and decisions
  - Provide improved staff support for compilation of TPAC administrative products
- Creation of a new CAMPO Transportation Planner position at this time to provide for TPAC administration and process management in order to create and fill the position for the start of FY 18.
- Position is funded in draft Wake Transit FY 18 Work Program

**Requested Action:** 

**Recommend Executive Board approve staff addition** 



# 6. Budget Informational Items 6.1: Member Shares - FY 17

#### 6.2: Operating Budget - FY 17

**Requested Action:** 

**Receive as information** 



#### 7.1 Information Item: Project Updates

- Hot Spot Program
- Transit Systems
   Planning
- Southeast Area Study
- Regional Freight Plan Study
- (SRTS) John Rex Endowment Grant Award Update

- NC Non- Motorized Volume Data Program – Phase II Region Rollout
- Triangle Tolling Study
- NC 98 Corridor Study

**<u>Requested Action:</u>** Receive as information



#### 8. Information Item: Staff Reports

- MPO Executive Director, Chris Lukasina
- TCC Chair
- NCDOT Transportation Planning Branch
- NCDOT Division 4
- NCDOT Division 5
- NCDOT Division 6
- NCDOT Rail Division
- NC Turnpike Authority

**Requested Action:** 

**Receive as information** 



### **Upcoming Events**

Date	Event
April 7, 2017 – 10:00 - Noon	Triangle Bicycle and Pedestrian Cary Arts Center 101 Dry Avenue Cary, NC 27511
April 19, 2017 – 12:30 – 3:30	CAMPO 101 Training Opportunity for new Board members
April 19, 2017 – 4:00 pm	Executive Board
April 26-28, 2017	NCAMPO Statewide Conference, New Bern, NC
May 4, 2017 – 10:00 am	TCC
May 17, 2017 – 4:00 pm	Executive Board
June 1, 2017 – 10:00 am	тсс

NC Capital Area Metropolitan Planning Organization

# ADJOURN

