





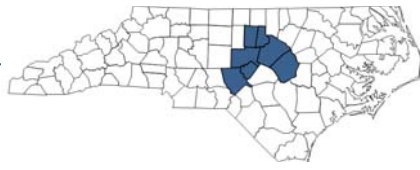
<p>Goal Number Two</p>	<p>Establish and Maintain a Robust Regional Infrastructure</p>	
<p>Objective 1</p>	<p>Identify the region’s infrastructure assets (transportation, water/ sewer/gas, broadband, housing, etc.)</p>	
<p>Strategies</p>	<p><u>Strategy 1</u> Establish a regional databank of existing infrastructure</p> <p><u>Strategy 2</u> Determine future capital needs to support infrastructure, growth and development</p> <p><u>Strategy 3</u> Expand the number of state certified industrial sites in the region, as well as alternatively certified sites (for county level certification programs)</p>	
<p>Lead Agency Partner</p>	<p>Triangle J Council of Governments</p>	
<p>Public/Private Partnerships</p>	<p>Local governments, MPOs, Triangle Transit, utility companies, higher education, economic development corporations</p>	
<p>Actions</p>	<ol style="list-style-type: none"> <li>1. Compile maps and inventories of the region’s existing infrastructure</li> <li>2. Analyze local governments’ Capital Improvement Programs to understand infrastructure needs and projected spending priorities</li> <li>3. Offer technical assistance to local governments in the development of Capital Improvement Programs</li> <li>4. Support local efforts to achieve “shovel ready” certification for industrial sites</li> </ol>	
<p>Estimated Costs</p>	<p>\$\$\$</p>	
<p>Alignment of Resources</p>	<p>Local governments, institutional partners</p>	
<p>Barriers/Issues</p>	<ul style="list-style-type: none"> <li>• Coordinating many partners</li> <li>• Compiling data from many different sources and making it uniform</li> </ul>	
<p>Performance Measures</p>	<ul style="list-style-type: none"> <li>• Maps and inventories of existing infrastructure</li> <li>• Capital Improvement Program analysis</li> <li>• Technical assistance provided to local governments</li> </ul>	




<p>Goal Number Two</p>	<p>Establish and Maintain a Robust Regional Infrastructure</p>	
<p>Objective 2</p>	<p>Develop multi-modal transportation systems that address existing and future year mobility needs</p>	
<p>Strategies</p>	<p><u>Strategy 1</u> Increase regional transportation collaboration in planning, programs and project investments</p> <p><u>Strategy 2</u> Expand transportation funding opportunities to support growth and development</p>	
<p>Lead Agency Partner</p>	<p>Triangle J Council of Governments</p>	
<p>Public/Private Partnerships</p>	<p>MPOs, RPOs, Triangle Transit, Regional Transportation Alliance’s Mobility Action Partnership (TriMAP), Joint MPO Land Use-Transportation-Air Quality Technical Work Program, LUCID Forum, Triangle Main Line Forum</p>	
<p>Actions</p>	<ol style="list-style-type: none"> <li>1. Support programs and investments that match public and private land use and development decisions with existing and planned transportation investments</li> <li>2. Expand projects and programs – typically termed “Transportation Demand Management” – that influence employers and travelers to use the transportation system more efficiently through such means as public transit, ridesharing, walking, cycling and telecommuting</li> <li>3. Further the analysis and implementation of an expanded menu of transportation funding and financing options</li> <li>4. Advance efforts to collaboratively invest in the region’s main rail corridors to serve freight, interstate High Speed Rail, intercity rail, regional commuter rail and urban light rail in ways that are sensitive to the communities through which the rail lines run</li> <li>5. Pursue opportunities to expand airline service, especially to the West Coast and internationally</li> <li>6. Develop intermodal freight facilities in the region, focusing on locations with existing rail connections that could take advantage of links to east coast deep water ports expected to benefit from the expansion of the Panama Canal</li> <li>7. Support investments, including demonstration or pilot programs, in the uses of advanced technologies to make automobile, truck, rail and public transit travel safer, faster and more customer-friendly</li> </ol>	



Estimated Costs	\$\$\$\$
Alignment of Resources	Federal, State, Local sources
Barriers/Issues	<ul style="list-style-type: none"> <li>• Differing viewpoints and priorities regarding transportation</li> <li>• Disaggregated decision-making and project implementation: multiple MPOs, RPOs, NCDOT divisions, transit providers, municipalities and counties</li> <li>• Limited funding for transportation projects, especially for non-automobile modes and “regional” or “local” tier roads</li> </ul>
Performance Measures	<ul style="list-style-type: none"> <li>• Proportion of workers at employers participating in TDM programs</li> <li>• Expanded transportation funding and financing options</li> <li>• Number of airline flights and routes from RDU</li> <li>• Number of intermodal freight facilities in the region</li> <li>• Vehicle miles of travel per capita</li> <li>• Number of travelers walking, biking and using transit</li> <li>• Number and proportion of jobs and population located within neighborhoods and activity centers well-served by transit</li> </ul>



<p>Goal Number Two</p>	<p>Establish and Maintain a Robust Regional Infrastructure</p>	
<p>Objective 3</p>	<p>Ensure that water, sewer and natural gas infrastructure can accommodate future growth</p>	
<p>Strategies</p>	<p><u>Strategy 1</u>            Develop a comprehensive regional water resources approach that takes into consideration how water resources fit with growth projections across the region – includes raw water supplies, water treatment capacity, water reuse, efficiency and conservation, and assimilative stream capacity to handle wastewater effluent and stormwater runoff</p> <p><u>Strategy 2</u>            Identify resources available from natural gas suppliers in the region to determine current capacity and plans for utility extensions; match with sites for potential development to determine adequacy</p>	
<p>Lead Agency Partner</p>	<p>Triangle J Council of Governments</p>	
<p>Public/Private Partnerships</p>	<p>NC AWWA-WEA, Jordan Lake Partnership, NC Rural Water Association, NC Water Resources Association, PSNC, economic development corporations</p>	
<p>Actions</p>	<ol style="list-style-type: none"> <li>1. Building on the Triangle Regional Water Supply Plan,; investigate the drivers of uncertainty in projection ranges (e.g. traditional vs. high efficiency use rates, water loss, variations in growth rates and methodologies, quality of base data, and system characteristics)</li> <li>2. Create an inventory of all current surface and ground water supply sources in the region; conduct comparative yield analysis; investigate opportunities for new or expanded water supply sources</li> <li>3. Investigate water and wastewater treatment capacity and opportunities for future expansion; investigate system interconnections and regional optimization of water and sewer service delivery</li> </ol>	

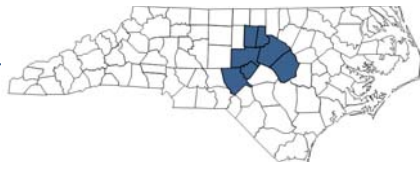



Actions

4. Create an on-line regional water supply dashboard showing a standardized metric of public and private water supply status, water shortage response stage and applicable water restrictions or conservation measures by water service utility
5. Develop and maintain minimum data standards for water use and accounting; promote data sharing and collaboration; encourage annual water audit for every public water system in the region
6. Promote full-cost water and wastewater pricing including water supply protection; investigate innovative pricing models
7. Promote water reclamation and non-potable water reuse; promote indirect potable reuse; promote rainwater, greywater and stormwater capture, treatment and reuse
8. Assess regional water quality attainment measures; create regional water quality model and future scenarios; investigate assimilative capacity of surface waters; investigate costs/benefits and potential market structures for crediting and credit trading; investigate most promising water quality strategies by county, municipality and development type
9. Create local watershed plans region-wide beginning with water supply watersheds; identify degraded and threatened watershed functions and values, identify watershed restoration, enhancement and protection opportunities; establish collaborative watershed partnerships; establish and fund watershed coordinators; promote local watershed stewardship; encourage, support and incentivize watershed champions
10. Investigate the options for governance, organizational, operational, staffing and legal structure of potential future river basin water resource management councils
11. Meet with natural gas suppliers to discuss and review existing facilities and plans for added capacity
12. Identify potential industrial sites in need of natural gas extensions to accelerate site development




Estimated Costs	\$\$\$\$
Alignment of Resources	Federal, State and Local governments; water and wastewater utility providers; higher education, water resource management councils
Barriers/Issues	<ul style="list-style-type: none"><li>• Insufficient resources currently available</li><li>• Inconsistent drought and water supply metrics</li><li>• Water and sewer rates insufficient to cover full costs of capital, maintenance, replacement and expansion</li><li>• Current policies and codes hinder water reuse</li><li>• Elevated nutrients in surface waters</li><li>• Proprietary nature of natural gas lines and facilities</li></ul>
Performance Measures	<ul style="list-style-type: none"><li>• Regional Water Supply &amp; Drought dashboard</li><li>• Water supply source inventory</li><li>• Full cost water and sewer pricing</li><li>• Indirect potable reuse and large-scale water reuse</li><li>• Regional water quality model with future strategies</li><li>• Watershed plans, coordinators, and partnerships</li><li>• Preferred options for Cape Fear and Neuse River Basin</li></ul>




<p>Goal Number Two</p>	<p>Establish and Maintain a Robust Regional Infrastructure</p>	
<p>Objective 4</p>	<p>Develop plans for the expansion of telecommunications and broadband infrastructure growth or identify their capacity is sufficient</p>	
<p>Strategies</p>	<p><u>Strategy 1</u>            Draw on existing regional efforts to improve broadband access with the goals of attracting businesses and young people, improving teleworking options and expanding educational and healthcare access</p>	
<p>Lead Agency Partner</p>	<p>NC Next Generation Networks partners</p>	
<p>Public/Private Partnerships</p>	<p>Triangle J Council of Governments, higher education, municipalities, NCDOT, Research Triangle Foundation, MCNC, potential service providers</p>	
<p>Actions</p>	<ol style="list-style-type: none"> <li>1. Support collaborations among universities, public agencies and the private sector to speed the development and implementation of next-generation network services</li> <li>2. Compile information and communicate it to elected officials and other decision makers about broadband and its value in economic development</li> </ol>	
<p>Estimated Costs</p>	<p>\$\$\$</p>	
<p>Alignment of Resources</p>	<p>Institutional partners, NCDOT, service providers</p>	
<p>Barriers/Issues</p>	<ul style="list-style-type: none"> <li>• Limited deployment of fiber in the region</li> <li>• Pricing models for gigabit speed services that are not attractive to potential users</li> <li>• Establishing successful collaborations</li> </ul>	
<p>Performance Measures</p>	<ul style="list-style-type: none"> <li>• Miles of optic fiber</li> <li>• Proximity of key points of demand to fiber resources</li> <li>• Increased or accelerated investments in broadband infrastructure</li> <li>• Availability and pricing of next generation network services</li> </ul>	

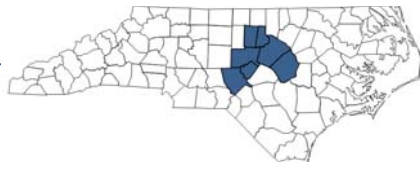


Goal Number Two	Establish and Maintain a Robust Regional Infrastructure	
Objective 5	Develop equitable and affordable housing choices that address a wide range of incomes	
Strategies	<u>Strategy 1</u> Develop local and regional housing approaches that consider local market conditions, work force needs and the value of living near work	
Lead Agency Partner	To be determined	
Public/Private Partnerships	Local governments, housing non-profits, Triangle J Council of Governments	
Actions	<ol style="list-style-type: none"> <li>1. Identify and confirm lead agency partner</li> <li>2. Conduct a housing needs assessment for the projected workforce; identify gaps</li> <li>3. Develop a regional definition of “affordability,” in relation to comparable markets across the country</li> <li>4. Identify and promote the variety of housing markets represented in the Triangle J region</li> <li>5. Educate policy makers about the role affordable housing plays in supporting a healthy economy</li> <li>6. Build public awareness about the broad definition of affordable housing in order to reduce the stigma often associated with the phrase</li> <li>7. Encourage communities to include housing elements in their comprehensive plans</li> </ol>	
Estimated Costs	\$\$\$	
Alignment of Resources	Non-profits, university resources, housing developers	
Barriers/Issues	<ul style="list-style-type: none"> <li>• Difficult economy for housing market</li> <li>• NIMBY opposition to affordable housing</li> <li>• Financial returns unattractive to private sector developers</li> </ul>	
Performance Measures	<ul style="list-style-type: none"> <li>• Completion of housing needs assessment</li> <li>• Regional definition of affordability based on housing plus transportation costs</li> <li>• Single point for information/discussions of affordable housing</li> <li>• Housing elements in comprehensive plans</li> <li>• Increased stock of affordable housing near employment centers, community services and transit services</li> </ul>	






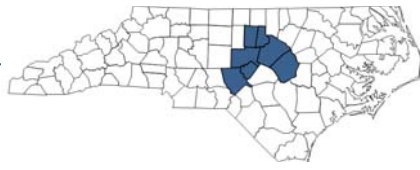
<p>Goal Number Three</p>	<p>Create Revitalized and Vibrant Communities</p>	
<p>Objective 1</p>	<p>Promote environmentally sustainable and healthy development patterns</p>	
<p>Strategies</p>	<p><u>Strategy 1</u> Work with local governments to improve development ordinances in the region</p> <p><u>Strategy 2</u> Promote health as an integral aspect of the planning process and new development</p> <p><u>Strategy 3</u> Develop and deploy tools and techniques to better understand the impacts and benefits of developments and investments, such as ‘triple bottom line’ economic calculators and quality development certification metrics</p>	
<p>Lead Agency/Partner</p>	<p>Triangle J Council of Governments</p>	
<p>Public/Private Partnerships</p>	<p>Local governments, Urban Land Institute, Active Living by Design, NC Sustainable Communities Task Force</p>	
<p>Actions</p>	<ol style="list-style-type: none"> <li>1. Collect and review unified development ordinances throughout the region</li> <li>2. Provide outreach to communities to convey the long-term benefits of sustainable development to economic vitality</li> <li>3. Offer technical assistance to communities that are interested in updating or creating their ordinances</li> <li>4. Bring together partners to continuously create, refine, analyze and communicate development scenarios for the region as a whole and for different portions of the region</li> <li>5. Research existing tools for evaluating the impacts and benefits of development investments; determine applicability to Triangle J region; adapt or develop a regional model</li> <li>6. Encourage healthy planning sections in comprehensive plans</li> <li>7. Expand bicycle and pedestrian facilities within and between communities</li> <li>8. Distribute information about grants and technical assistance for Health Impact Assessments</li> </ol>	



Actions	<p>9. Encourage communities to conduct Health Impact Assessments on proposed policies and developments</p> <p>10. Support the development of sports and recreation facilities to provide a wide range of experiences for all ages and abilities</p>
Estimated Costs	\$\$\$
Alignment of Resources	Local governments, higher education, Triangle J Council of Governments, partner organizations
Barriers/Issues	<ul style="list-style-type: none"> <li>• Lack of established mechanisms and funding sources to incorporate healthy and sustainable development</li> <li>• Limited staffing in many organizations to address topics</li> <li>• Negative view of “sustainability”</li> </ul>
Performance Measures	<ul style="list-style-type: none"> <li>• Compilation of unified development ordinance sections addressing health and sustainability standards</li> <li>• Amounts and types of technical assistance provided</li> <li>• Established program to help organizations create and analyze development scenarios and their impacts</li> <li>• Comprehensive plans with health sections</li> <li>• Miles of sidewalks and bike facilities</li> <li>• Health Impact Assessments conducted</li> </ul>



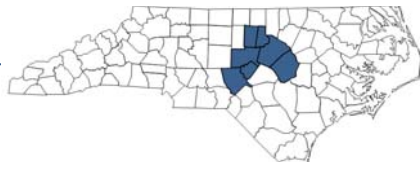
<p>Goal Number Three</p>	<p>Create Revitalized and Vibrant Communities</p>	
<p>Objective 2</p>	<p>Ensure that underserved and distressed communities are engaged in the planning process</p>	
<p>Strategies</p>	<p><u>Strategy 1</u> Develop and share alternative outreach methods that target underserved and distressed populations throughout the region to include them in planning processes</p>	
<p>Lead Agency/Partner</p>	<p>Local governments</p>	
<p>Public/Private Partnerships</p>	<p>Triangle J Council of Governments, community groups, faith-based organizations, social service agencies</p>	
<p>Actions</p>	<ol style="list-style-type: none"> <li>1. Identify underserved and distressed populations and determine current levels of participation in planning processes</li> <li>2. Organize an idea-exchange for elected officials and staff about innovative ways to engage underserved and distressed populations</li> <li>3. Use multiple avenues to communicate how planning is used and the importance of being involved in the planning process</li> <li>4. Canvass underserved neighborhoods and survey residents</li> <li>5. Hold public meetings at varying times of day to allow all interested parties to attend</li> <li>6. Encourage a diversity of residents to hold “planning parties” at their homes or neighborhoods where groups can discuss pertinent issues</li> </ol>	
<p>Estimated Costs</p>	<p>\$\$</p>	
<p>Alignment of Resources</p>	<p>Local governments, community and faith-based organizations, social services agencies, state government</p>	
<p>Barriers/Issues</p>	<ul style="list-style-type: none"> <li>• Lack of documents/websites addressed to non-English speaking populations</li> <li>• Availability of transportation to meetings/events</li> <li>• Staff needed to cover expanded outreach efforts</li> </ul>	
<p>Performance Measures</p>	<ul style="list-style-type: none"> <li>• Increased diversity in planning participation</li> <li>• Planning events in targeted areas</li> <li>• Idea exchange forum for government staff</li> </ul>	




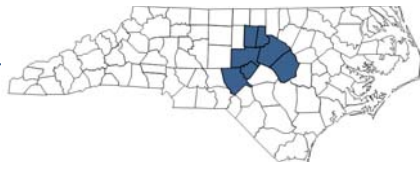
<p>Goal Number Three</p>	<p>Create Revitalized and Vibrant Communities</p>	
<p>Objective 3</p>	<p>Accelerate investments in healthy, safe and walkable neighborhoods</p>	
<p>Strategies</p>	<p><u>Strategy 1</u> Determine the status of neighborhoods in terms of health, safety and walkability</p> <p><u>Strategy 2</u> Promote community engagement in neighborhood decision making</p> <p><u>Strategy 3</u> Develop new and promote existing local policies to support community investment goals</p>	
<p>Lead Agency/Partner</p>	<p>Local governments, Triangle J Council of Governments</p>	
<p>Public/Private Partnerships</p>	<p>County Departments of Health and Human Services, Shape your World, Urban Land Institute</p>	
<p>Actions</p>	<ol style="list-style-type: none"> <li>1. Mobilize residents to conduct health, safety and walkability assessments of neighborhoods in the region</li> <li>2. Identify and prioritize community investments through public engagement</li> <li>3. Support policies that incentivize infill development in urban cores, town centers and designated activity centers</li> <li>4. Encourage mixed use development</li> <li>5. Prioritize bicycle and pedestrian infrastructure</li> </ol>	
<p>Estimated Costs</p>	<p>\$\$</p>	
<p>Alignment of Resources</p>	<p>Local governments, Triangle J Council of Governments, public and private partners</p>	
<p>Barriers/Issues</p>	<ul style="list-style-type: none"> <li>• Limited coordination between public health and planning</li> <li>• Difficulty retrofitting auto-oriented development</li> <li>• Complexity of financing for infill/urban development</li> </ul>	
<p>Performance Measures</p>	<ul style="list-style-type: none"> <li>• Health, safety, walkability assessments done</li> <li>• Public involvement in prioritization processes</li> <li>• Incentives offered for infill</li> <li>• New sidewalks and bike infrastructure implemented</li> </ul>	



<p>Goal Number Three</p>	<p>Create Revitalized and Vibrant Communities</p>	
<p>Objective 4</p>	<p>Promote the restoration and preservation of urban and town centers and crossroads communities</p>	
<p>Strategies</p>	<p><u>Strategy 1</u> Stimulate private investment in urban and town centers and crossroads communities by leveraging public resources</p> <p><u>Strategy 2</u> Identify opportunities for, and support investment in, community appearance and aesthetics through redevelopment and restoration</p>	
<p>Lead Agency/Partner</p>	<p>Downtown development organizations, local governments</p>	
<p>Public/Private Partnerships</p>	<p>Developers, economic development corporations, NC Commerce-Community Development, NC Rural Center</p>	
<p>Actions</p>	<ol style="list-style-type: none"> <li>1. Identify and support public-private partnership investments to provide civic, cultural, educational and enterprise-support facilities and services</li> <li>2. Encourage downtown development planning in communities in the region</li> <li>3. Inventory available properties that need restoration and/or preservation, including brownfields</li> <li>4. Establish business improvement districts in targeted areas</li> <li>5. Ensure that historic preservation and restoration tax credits are publicized</li> <li>6. Share best practices and policies that encourage downtown redevelopment and restoration</li> <li>7. Support and promote cultural arts venues and activities as catalysts for rejuvenating downtown redevelopment</li> </ol>	
<p>Estimated Costs</p>	<p>\$\$\$</p>	
<p>Alignment of Resources</p>	<p>Federal funding (e.g. Main Street), public-private partnerships</p>	
<p>Barriers/Issues</p>	<ul style="list-style-type: none"> <li>• Limited funding</li> <li>• Scale of opportunities in smaller communities</li> <li>• Insufficient or deteriorating infrastructure</li> </ul>	
<p>Performance Measures</p>	<ul style="list-style-type: none"> <li>• Inventory of available properties</li> <li>• New Business Improvement Districts in region</li> <li>• Tax credits claimed by developers/property owners</li> </ul>	



<p>Goal Number Three</p>	<p>Create Revitalized &amp; Vibrant Communities</p>	
<p>Objective 5</p>	<p>Enhance job growth by building the local food economy, preserve and enhance residents' connections to agrarian life and increase residents' access to fresh locally grown foods</p>	
<p>Strategies</p>	<p><u>Strategy 1</u> Foster development of a sustainable local food economy from farm to fork including infrastructure and market development, farmer and new food business entrepreneurial support and improved access</p> <p><u>Strategy 2</u> Promote land use policies and development standards that encourage preservation of working lands (rural and urban farms/ranches; community, school and homeowner gardens)</p>	
<p>Lead Agency/Partner</p>	<p>Center for Environmental Farming Systems</p>	
<p>Public/Private Partnerships</p>	<p>NC Cooperative Extension Service, NC Department of Agriculture &amp; Consumer Services, NC Sustainable Local Food Policy Council, UNC-CH Center for Health Promotion &amp; Disease Prevention, Carolina Farm Stewardship Association, NC Division of Public Health, NC Farm Bureau Foundation</p>	
<p>Actions</p>	<ol style="list-style-type: none"> <li>1. Develop county and regional Agricultural and Economic Development and Farmland Protection plans that support the local food economy</li> <li>2. Develop initiatives to connect food producers to local markets and institutions, including farm-to-school programs</li> <li>3. Conduct assessments of local food systems, including identification of infrastructure needs and business creation opportunities</li> <li>4. Invest in business planning and management support for local food and farming enterprises including, for example, new distribution, aggregation, processing centers and beginning farmer support</li> <li>5. Support and promote policies that dedicate vacant land and underutilized infrastructure to promote farm, garden, and agri-business market development</li> </ol>	



<p>Actions</p>	<ol style="list-style-type: none"> <li>6. Determine current status of regional coordination among agricultural and economic development groups to enhance opportunities for addressing regional food system needs</li> <li>7. Develop measures to quantify the economic and social impact of locally-driven agri-food businesses and non-profit ventures</li> <li>8. Reduce development pressure on farmland by limiting utility extensions into those areas.</li> <li>9. Revise land use plans and zoning regulations and atlases in such a way as to encourage preservation and expansion of working lands</li> </ol>
<p>Estimated Costs</p>	<p>\$\$\$\$</p>
<p>Alignment of Resources</p>	<p>NC Cooperative Extension Service – County Local Food Coordinators, NC Division of Public Health, small-farming community, non-profit organizations, higher education</p>
<p>Barriers/Issues</p>	<ul style="list-style-type: none"> <li>• Lack of dedicated funding and staff at the regional level to coordinate research, development and communications</li> <li>• Lack of standardized measures and easily accessible data to track changes in the growth in sustainable local food economies, land use policies and development standards</li> <li>• Lack of structural information networks to collect and disseminate information and encourage collaboration across the region around growing food systems</li> </ul>
<p>Performance Measures</p>	<ul style="list-style-type: none"> <li>• Staff and funding at regional level to support the growth of agribusiness and development of community-based food systems</li> <li>• Set of measures to track growth in local food system and local food economy</li> <li>• Comprehensive county-level and regional Agricultural and Economic Development and Farmland Protection plans to support development of local food economy</li> <li>• Land use and zoning measures that encourage preservation and expansion of working lands</li> </ul>