

1. Welcome and Introductions

- 2. Adjustments to the Agenda
- 3. Ethics Statement:

In accordance with the State Government Ethics Act, it is the duty of every Executive Board member to avoid conflicts of interest.

Does any Executive Board member have any known conflict of interest with respect to matters coming before the Executive Board today? If so, please identify the conflict and refrain from any participation in the particular matter involved.

4. Public Comments

This is an opportunity for comments by those in attendance. Please limit comments to three minutes for each speaker.



5. Minutes

Minutes – June 21, 2017 minutes

Requested Action:

Approve the June 21, 2017 meeting Minutes



6. Public Hearing



6.1 FFY 2019 Locally Administered Projects Program (LAPP)

- FFY 2019 Target Modal Investment Mix with Alternative Option and Recommended Changes to the FFY 2019 LAPP Program for public review and comment from June 16th through August 16th, 2017.
- Public hearing scheduled at the regular Executive Board Meeting on August 16th, 2017 at 4:00pm.
- Based on Executive Board action at that meeting call for Projects is anticipated to open on August 17th, 2017.



Proposed Changes to FFY 2019 LAPP Program

- 1. Clarification of Pre-Submittal versus Final Application Submittal Requirements
- Target Modal Investment Mix Percentages For FFY2019

*Proposed changes meant to improve clarity on existing LAPP policies and do not change the content



Clarification of Pre-Submittal versus Final Application Submittal Requirements

 Reformatting submittal requirements in LAPP Handbook to provide clarity on what is required on pre-submittal and final applications



Current Format

Proposed Format

All applicants will be required to submit the following items with their application for a project to be considered for LAPP funding:

- Problem Statement for Roadway, Bicycle/Pedestrian and Transit projects (see Appendix
 V for further guidance on developing an acceptable problem statement for Roadway
 and Bicycle/Pedestrian. For Transit Projects, the Problem St atement must identify how
 the problem impacts users and describe how the project improves, enhances or benefits
 user experiencel.
- Map or photo documentation, as applicable, including all information related to
 effectiveness scoring, such as transit stop lo—cations, connections, footpaths, etc...
- Detailed cost estimates for each phase applied for and planning level estimates for the remaining phases to ultimately complete the project. Roadway and Bicycle/Pedestrian Applicants should consider that NCDOT can charge against these projects for reviews, and that 10% or \$5000 (whichever is greater) should be added to cost estimates to cover this expense. Once an applicant utilizes LAPP (or any other federal funds) on any portion of a project, the applicant is expected to complete the project within ten years or return the federal funding used on any phase of the project.
- TEAAS Report for project location (or parallel route for new —location facilities, as-approved by pre—submittal panel), if applicable. A three—year report is required for roadway projects, and a ten year report is recommended for bicycle/pedestrian—projects. Similar to other roadway projects, ITS applicants must submit TEAAS reports—from one 'typical' intersection of the many locations identified in the —application. TEAAS Report is not required for Transit, unless the proposed project is a safety enhancement—specific to stops or routes within the transit system.—
- For Projects with Rail Crossings, copies of meeting memorandum and other
 documentation of coo rdination with rail companies and agencies must be submitted
 with the application, including project information, such as ROW concerns, bridge
 concerns (length and size), and cost impacts.
- For Toll Related Projects, applicants must submit NCTA approval for access and/or-project partnership information.
- For ITS Projects, applicants must submit detailed information, including feasibility studies, system operations manuals and infrastructure specifications.
- Copy of all other pertinent project information/justi fication, including road safetyaudits, local crash reports, local crash data, etc.
- A GIS layer for each project that depicts the project (eg. Extent, location, length, etc.)
 and meets the following standards:
 - § Files should have the following projections;

NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet

Geographic Coordinate System: GCS_North_American_1983

Datum: D_North_American_1983

A 1 11 11 15 15

Shapefiles are preferred, but geodatabases for larger files are also accep—table. Remember when uploading shapefile or geodatabases to include all files (ie, dbf, prj, cbn, sbx, shp, etc...).

Provide metadata with uploaded files.

LAPP Application Submission	Documents
Pre-Submittal Requirements	Final Application Requirements
	Final versions of all pre-submittal
Detailed cost estimates for each phase applied for and	requirements
planning level estimates for the remaining phases to	TEAAS Report for project location (or

Detailed cost estimates for each phase applied for and planning level estimates for the remaining phases to ultimately complete the project. Roadway and Bicycle/Pedestrian Applicants should consider that NCDOT can charge against these projects for reviews, and that 10% or \$5000 (whichever is greater) should be added to cost estimates to cover this expense. Once an applicant utilizes LAPP (or any other federal funds) on any portion of a project, the applicant is expected to complete the project within ten years or return the federal funding used on any phase of the project.

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must submit TEAAS reports from one
'typical' intersection of the many
locations identified in the application.
TEAAS Report is not required for
Transit, unless the proposed project is a
safety enhancement specific to stops or
routes within the transit system.

For Projects with Rail Crossings,
copies of meeting memorandum and
other documentation of coordination with

Problem Statement for Roadway, Bicycle/Pedestrian and Transit projects (see Appendix V for further guidance on developing an acceptable problem statement for Roadway and Bicycle/Pedestrian. For Transit Projects, the Problem Statement must identify how the problem impacts users and describe how the project improves, enhances or benefits user experience).

Map or photo documentation, as applicable, including all information related to effectiveness scoring, such as transit stop locations, connections, footpaths, etc.

A GIS layer for each project that depicts the project (eg. Extent, location, length, etc.) and meets the following standards:

Files should have the following projections;

NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet Geographic Coordinate System: GCS_North_American_1983 Datum: D_North_American_1983 Prime Meridian: Greenwich Angular Unit: Degree

- Shapefiles are preferred, but geodatabases for larger files are also acceptable. Remember when uploading shapefile or geodatabases to include all files (ie, .dbf, .prj, .cbn, .sbx, .shp, .etc...).
- · Provide metadata with uploaded files.
- Files can be uploaded on the CAMPO LAPP Sharefile site. Each agency has a folder to upload submittal documents. To receive first-time access to the Sharefile site, email CAMPO staff.

Files should be saved to a .zip file on the LAPP Sharefile site within the folder created for your agency. The .zip file should be named for the project title; a new .zip file should be created for each project submitted.

routes within the transit system.

For Projects with Rail Crossings,
copies of meeting memorandum and
other documentation of coordination with
rail companies and agencies must be
submitted with the application, including
project information, such as ROW
concerns, bridge concerns (length and
size), and cost impacts.

parallel route for new-location facilities.

applicable. A three-year report is required

as approved by pre-submittal panel), if

bicycle/pedestrian projects. Similar to

for roadway projects, and a ten year

report is recommended for

NC Turnpike Authority approval for access and/or project partnership information for Toll Related Projects.

For ITS Projects, applicants must submit detailed information, including feasibility studies, system operations manuals and infrastructure specifications.

Copy of all other pertinent project information/justification, including road safety audits, local crash reports, local crash data, etc.



Maintaining Target Modal Investment Mix Percentages Through FFY2019

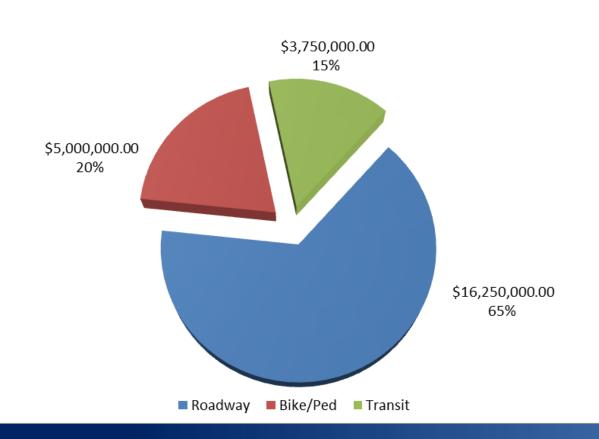
 Continue with the determination last year to keep the Target Modal Investment Mix percentages constant through 2019

 Utilize newly-adopted 2045 MTP and progress of Wake Transit Plan to make informed decision in FFY 2020



Staff Recommended FFY 2019 Target Modal Investment Mix

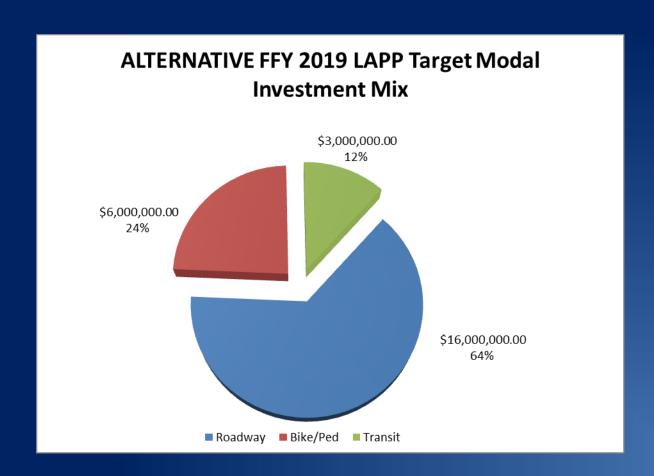
FFY 2019 LAPP Target Modal Investment Mix



 Second Target Modal Investment Mix created in response to discussion at June 1 TCC meeting

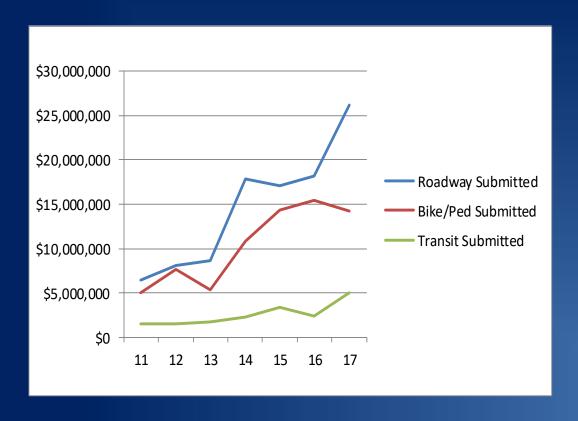
 Increases portion for bicycle and pedestrian projects

 TCC voted unanimously at August 3 meeting to recommend approval of the alternative Target Modal Investment Mix



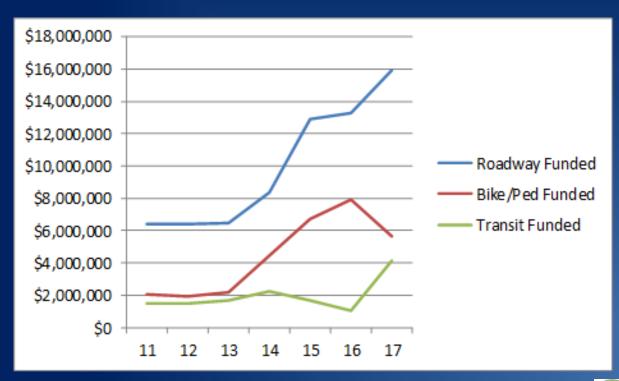


Total Submitted Project Costs for LAPP Cycles 2011-2017 (Calendar Year)



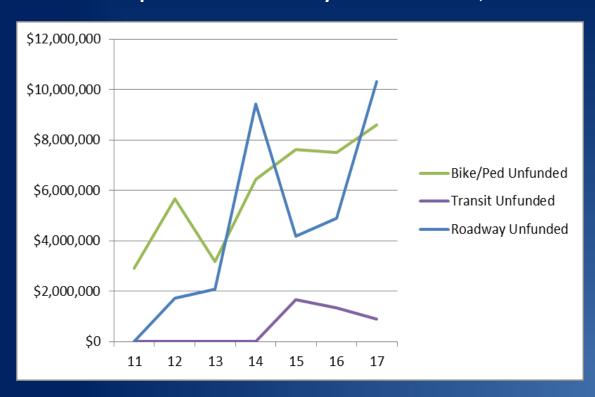


Total Funded Project Costs for LAPP Cycles 2011-2017 (Calendar Year)





Total Unfunded Project Costs for LAPP Cycles 2011-2017 (Calendar Year)





6.1 FFY 19 LAPP Updates

Requested Action:

Conduct a Public Hearing. Consider adoption of the FFY2019 Target Modal Investment Mix and Recommended Changes to the FFY2019 LAPP Program. Consider opening the 1-Call for Projects from August 17th Though October 31st, 2017.

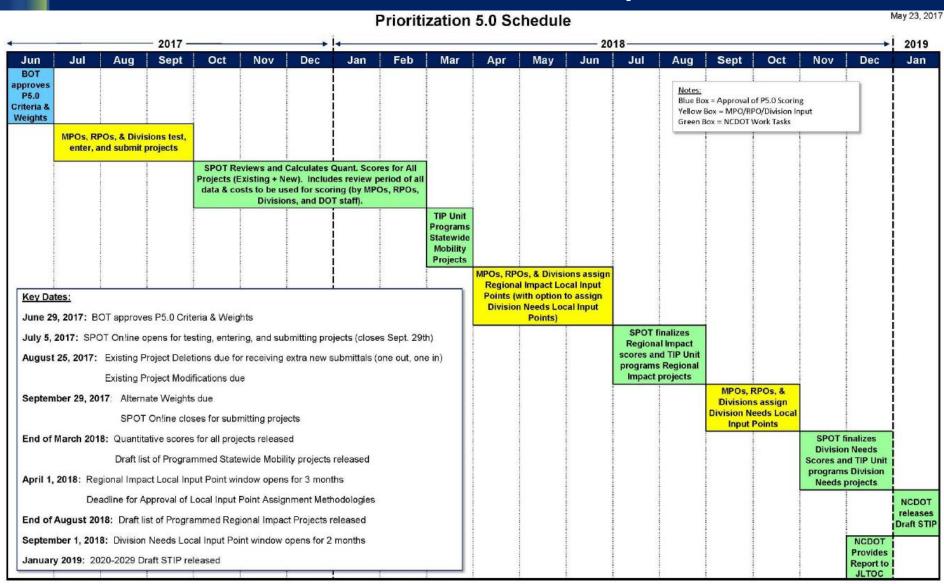


7. Regular Agenda



7.1 Prioritization 5.0 Modal Candidate Project Lists

P5.0 Schedule & Updates



DRAFT STIP Update

- NCDOT Authorized Additional Programming
- P4.0 Prioritization Process was Re-Applied
- Upwards Cascading was applied
- 63 CAMPO Projects Programmed
 - 1 Aviation
 - 8 Bicycle & Pedestrian
 - 43 Roadway
 - 27 Statewide Mobility
 - 14 Regional Impact
 - 2 Division Needs
 - 6 Rail
 - 5 Public Transportation



DRAFT STIP 2017-2027 Update: Statewide Mobility

YRS 1-5

2018 - 2022

\$814,200,000

\$1,142,414,000

- I-40 (I-440/US1/64 to Lake Wheeler)
- I-540 (Glenwood to Leesville Rd) eastbound auxiliary lane
- NC 540 (US 401 to I-40) TOLL
- US 1 (I-540 to Durant Rd)
- US 64 (Laura Duncan Rd to US 1)
- TW Alexander Interchange (US 70)
- US 70 Freeway Upgrade (TW Alexander to I-540)
- I-40 / I-440/US 1/64 Reconstruct Interchange
- I-40 (Aviation to Harrison Ave) auxiliary lanes
- I-440/Crabtree Valley Ave. Improvements
- I-440, US 1 / Capital Blvd Interchange Improvements
- US 70 (I-540 to Hilburn Dr) 6 lane SuperStreet
- Wade Ave (I-40 to I-440) 6 lane widening

YRS 6-10

2023 - 2027

\$454,287,000

\$422,595,000

- NC 540 (I-40 to US 64/264) TOLL
- I-40 Managed Lanes (NC 147 to Wade)
- US 1 Widening (US 64 to NC 55)
- I-540 Managed Shoulders
- US 1 / NC 55 DDI



DRAFT STIP 2017-2027 Update: Regional Impact

YRS 1-5
2018 -2022
\$401,786,000
\$427,728,000

- Morrisville Citywide Signal system
- NC 42 (NC 50 to US 70 Bypass)
- NC 42 (US 70 Bypass to US 70 Bus)
- NC 54 / McCrimmon Parkway Grade Separation
- US 1 (Durant Road to Burlington Mills Road)
- NC 50 (I-540 to NC 98)
- US 1 (Burlington Mills Road to NC 98)
- NC 147 Triangle Parkway Extension
- Fuquay-Varina Citywide Signal System

YRS 6-10

2023 - 2027

\$146,782,000

\$101,102,000

- US 401 median (Judd Parkway to NC 55/NC 42)
- Clayton Citywide Signal System
- US 1 (NC 98 to Harris Road)



DRAFT STIP 2017-2027 Update: Regional Impact NonRoadway

YRS 1-5
2018 -2022
\$105,993,000
\$104,356,400

- Rail Passenger Cars
- Expansion Vehicles CRX Route
- Expansion Vehicles DRX Route
- District Drive Park and Ride Expansion
- Garage Expansion at Nelson Road Facility
- Rail grade separation for Durant Road
- Rail grade separation for New Hope Church Rd
- Rail grade separation for Harrison Ave
- Rail grade separation for NE Maynard Rd
- GoTriangle Edenton and Salisbury Shelter

YRS 6-10 2023 – 2027 \$10,547,000

Gresham Lake Grade Separation



DRAFT STIP 2017-2027 Update: Division Needs

YRS 1-5
2018 -2022
\$60,179,000
\$111,026,600

- Knightdale Citywide Signal System
- Wake Forest Citywide Signal System
- Fuquay-Varina Citywide Signal System
- NC 54 (Hillsborough) / Blue Ridge Grade Separation
- Ten Ten Rd widening fr/ Apex Peakway to Reliance Ave
- McCrimmon Parkway widening from Davis Dr to Church Street
- US 401 Widening Part D

YRS 6-10
2023 - 2027
\$16,570,000
\$8,820,000

NC 42 Modernization from Buffalo Road to County line



DRAFT STIP 2017-2027 Update: Division Needs NonRoadway

YRS 1-5

2018 - 2022

\$13,920,000

\$17,920,000

- NC 55 Connector Sidewalk
- Airport Blvd Sidewalks
- Triangle North Executive Airport Project
- Morrisville-Carpenter Road Sidewalks
- McCrimmon Parkway Gap Sidewalks
- Church Street Sidewalks
- Black Creek Greenway

YRS 6-10

2023 - 2027

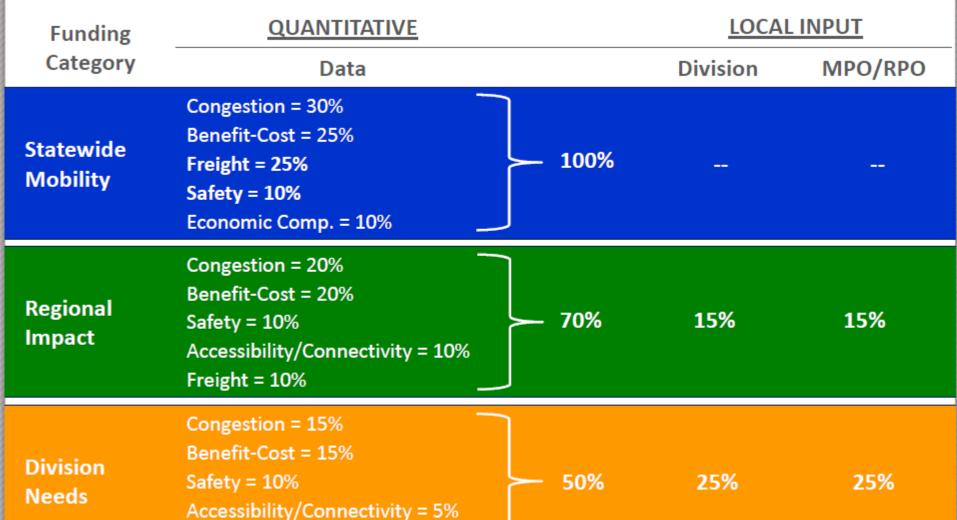
\$19,408,000

\$15,408,000

- Wake Forest Bypass Greenway
- Swift Creek Greenway



Highway Scoring Criteria & Weights (Default)



Note: Region(s) ____ and Division(s) ____ use Alternate Criteria & Weights

P5.0 Alternate Criteria

•	Regional Impact	Default	Proposed Region A
	Congestion	20%	15%
	Benefit Cost	20%	20%
	Safety	10%	10%
	 Accessibility / Connectivity 	10%	10%
	Freight	10%	15%

Division Needs

_	Congestion	15%
_	Benefit Cost	15%
_	Safety	10%
_	Accessibility / Connectivity	5%
_	Freight	5%

Division 4 – no change



P5.0 Alternate Criteria

•	Regional Impact	Default	Proposed Region C
	Congestion	20%	20%
	Benefit Cost	20%	20%
	Safety	10%	10%
	 Accessibility / Connectivity 	10%	5%
	Freight	10%	15%



P5.0 Alternate Criteria

•	Division Needs	Default	Division 5
	Congestion	15%	15%
	Benefit Cost	15%	20%
	Safety	10%	15%
	 Accessibility / Connectivity 	5%	
	Freight	5%	
•	Division Needs		Division 6
•	Division Needs - Congestion	15%	Division 6
•		15% 15%	
•	Congestion		15%
•	CongestionBenefit Cost	15%	15% 15%



Aviation Projects

- Review committed project
- Resubmit P4 Aviation Projects
- Contacted RDU & Triangle North Executive Airport



Bicycle/Pedestrian Projects

- Review of committed projects
- Review of carryover projects
- Continue proofing and updating estimated technical scores for new submittals

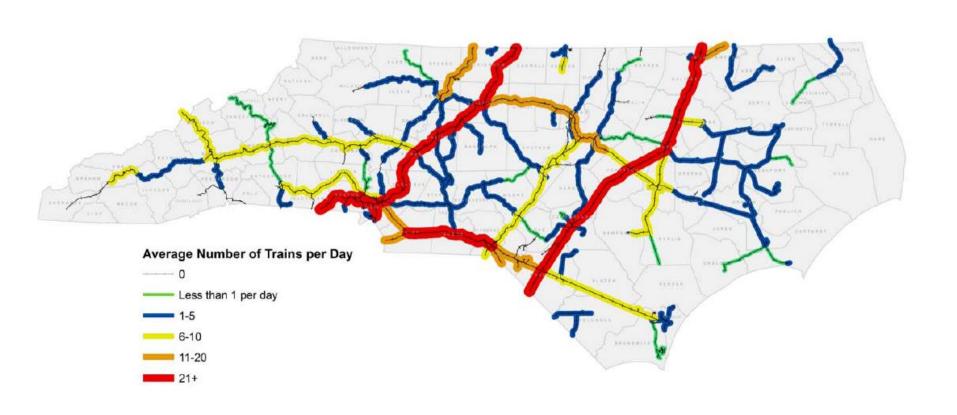
Work with Division Engineers to submit as many projects as possible



Rail Projects

- Review committed projects
- Resubmit P4 Rail Projects
- Include additional Grade Separations identified in CAMPO Studies
- Continue working with Divisions and Rail Division on identifying improvements (double tracking, sidings, crossovers)
- Work with Division Engineers to submit as many projects as possible

2016 Train Volumes in North Carolina



Roadway Projects

- Review committed projects
- Review carryover projects
- Continue working with Divisions and staff to identify most competitive roadway projects
- Work with Division Engineers to submit as many projects as possible



CAMPO SPOT Review

CAMPO can submit 43 additional roadway projects

Pre-FY2018 STIP
Projects

Existing SPOT
Database Projects

Remaining M/P

- Initial List Creation:
- STIP-funded projects prior to 2018 and
- Existing SPOT database projects
- MTP projects (SPOT requirement)
 - Delay, Travel Time, Socio-Economic growth trend metrics used as basis for comparing projects
 - A. E+C Delay/Lane Mile
 - B. 1st Decade Delay/Lane Mile
 - C. 2nd Decade Delay/Lane Mile
 - D. Network Connectivity
 - E. Interchanges/Operational Improvements
 - F. ITS Projects
- Results in a list of 43+ recommended submittals
 - Staff will coordinate with NCDOT Divisions to ensure maximum submittal of CAMPO projects.



Transit Projects

- Review committed projects
- Contacted Transit Agencies for project requests
- Resubmit P4 Transit Projects
- Work with Transit Agencies and staff to identify most competitive projects
- Work with Division Engineers to submit as many projects as possible



7.1 Prioritization 5.0 Modal Candidate Project Lists

Requested Action:

Open Public Hearing
Hold open until September 20th

7.2 2045 Metropolitan Transportation Plan Update

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.



- A series of multimodal investment alternatives have been created and continue to be modeled and analyzed.
- The results from the analysis will be reviewed in both the professional and public realms as the two MPOs develop the "Preferred Alternative" MTP; which is anticipated to be adopted later this calendar year.
- Both the Capital Area MPO and the Durham-Chapel Hill-Carrboro MPO are planning to schedule public meetings during the fall, prior to finalizing the "preferred alternative" for the 2045 Metropolitan Transportation Plan.



Moderate Network

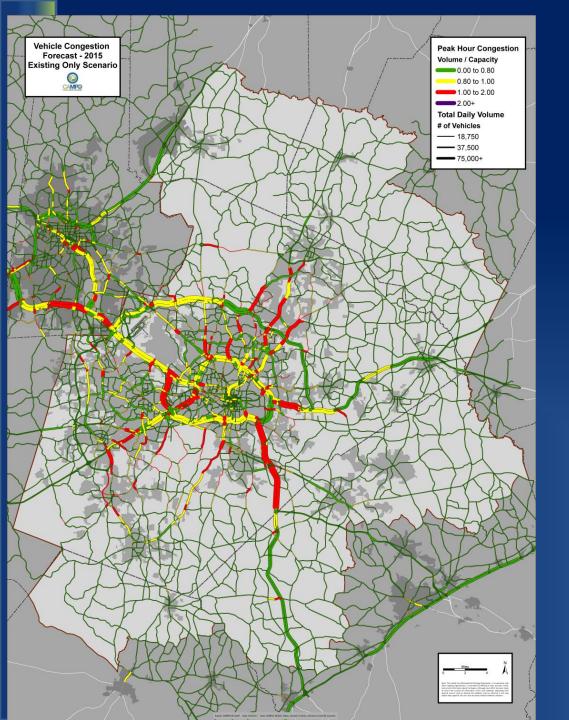
- Major Roadway Investments
 - Completion of the Outer Loop
 - Widening/Improving I-40, I-440, US 401, US 1, US 64, US 70,
 NC 42, NC 50, NC 54, NC 55, NC 98
 - Additional secondary roadway investments in 3rd decade
- Major Transit Investments (WTP + 20yrs)
 - Commuter Rail from Garner to Durham
 - BRT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



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 2nd and 3rd 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



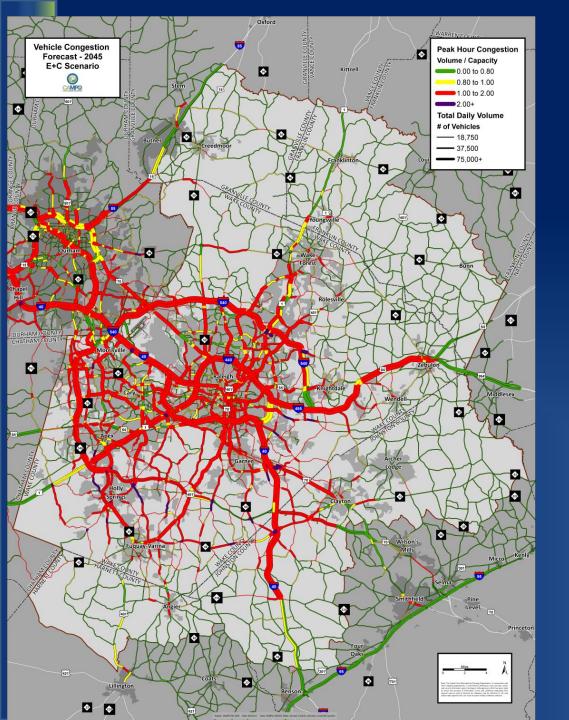


Deficiency Analysis

- Transportation Network:
 - 2015
- Socio-Economic Data:
 - 2015

- Volume / Capacity
 - Red signifies that a road has met or exceeded it's capacity
- Peak Hour
 - Represents the worst travel hour of the day



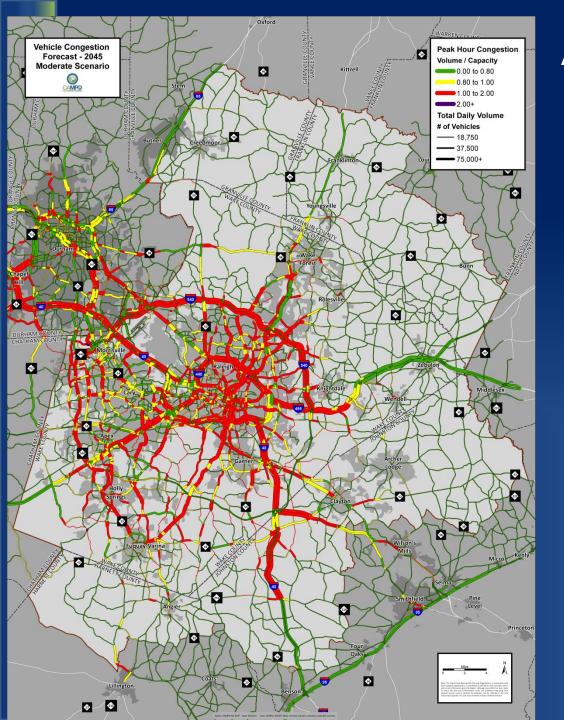


Deficiency Analysis

- Transportation Network:
 - 2022
- Socio-Economic Data:
 - 2045

- Volume / Capacity
 - Red signifies that a road has met or exceeded it's capacity
- Peak Hour
 - Represents the worst travel hour of the day

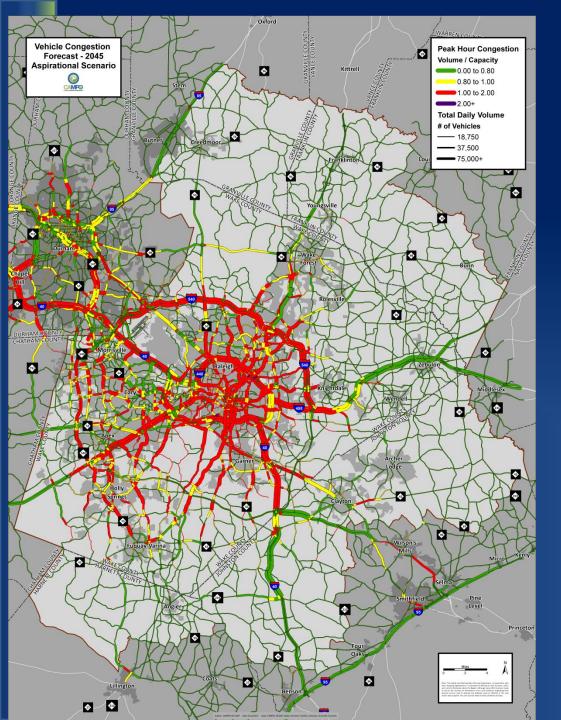




- Transportation Network:
 - Moderate
- Socio-Economic Data:
 - Community Plans

- Volume / Capacity
 - Red signifies that a road has met or exceeded it's capacity
- Peak Hour
 - Represents the worst travel hour of the day



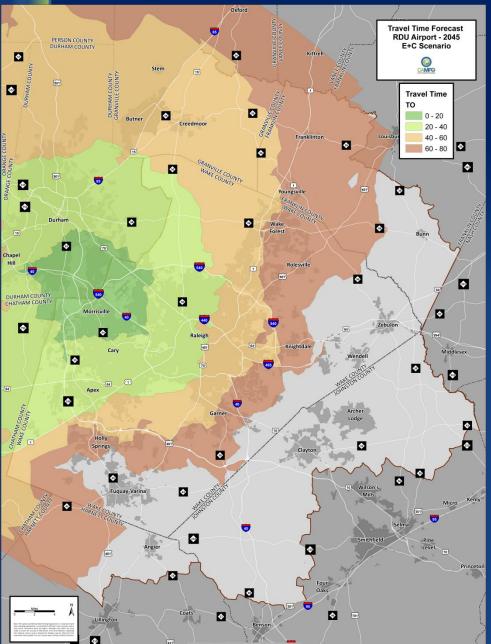


- Transportation Network:
 - Aspirational
- Socio-Economic Data:
 - AIM High

- Volume / Capacity
 - Red signifies that a road has met or exceeded it's capacity
- Peak Hour
 - Represents the worst travel hour of the day



E + C Scenario & Travel Time (RDU)



Destination	Approx. Time
Downtown Raleigh	40 min.
Downtown Wake Forest	1 hour
Downtown Knightdale	1 hr 15 min.
Downtown Holly Springs	1 hr 15 min.



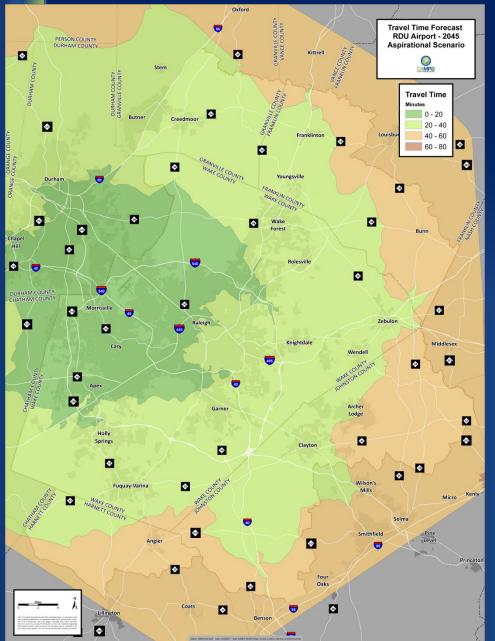
Travel Time Forecast RDU Airport - 2045 PERSON COUNTY DURHAM COUNTY Moderate Scenario **\$ Travel Time** 20 - 40 Franklinton **\$** 60 - 80 Ф **\$** • Φ Φ **\$** Ф Ф Zebulon Ф Ф Middlesex **\$** 4 Lodge Ф Φ Clayton • • • Wilson's Fuguay-Varina • Ф

Moderate Scenario Travel Time (RDU)

Destination	Approx. Time
Downtown Raleigh	25 min.
Downtown Wake Forest	40 min.
Downtown Knightdale	40 min.
Downtown Holly Springs	35 min.



Aspirational Scenario Travel Time (RDU)



Destination	Approx. Time
Downtown Raleigh	25 min.
Downtown Wake Forest	35 min.
Downtown Knightdale	30 min.
Downtown Holly Springs	25 min.



Travel Time Forecast Downtown Raleigh - 2045 E+C Scenario **\$** • TO 0 - 20 • 20 - 40 40 - 60 60 - 80 ф Φ Φ Ф • Φ • CHATHAM COUNTY Ф Middlesex Ф 4 Lodge Φ • Ф Φ Fuquay-Varina Ф

E + C Scenario Travel Time (Downtown Raleigh)

Destination	Approx. Time
RDU	40 min.
Downtown Wake Forest	1 hr 10 min.
Downtown Knightdale	1 hr.
Downtown Holly Springs	1 hr 15 min.



Travel Time Forecast Downtown Raleigh - 2045 Moderate Scenario ***** 20 - 40 40 - 60 ф 60 - 80 • Ф • • Φ • Φ **\$** Ф CHATHAM COUNTY Ф Zebulon Ф Middlesex Wendell Ф **\$** ¢to Lodge Ф Φ Clayton • Ф Ф Wilson's Fuguay-Varina Ф Smithfield ф Ф •

Moderate Scenario Travel Time (Downtown Raleigh)

Destination	Approx. Time
RDU	40 min.
Downtown Wake Forest	1 hr.
Downtown Knightdale	40 min.
Downtown Holly Springs	1 hr.



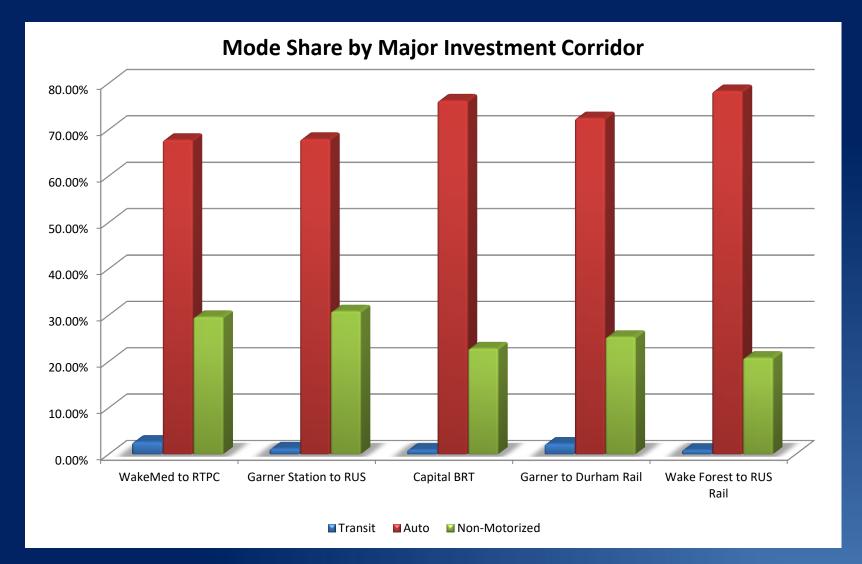
Oxford **Travel Time Forecast** Downtown Raleigh - 2045 PERSON COUNTY DURHAM COUNTY Aspirational Scenario • **Travel Time** 0 - 20 • 20 - 40 Franklinton 40 - 60 60 - 80 Ф Durham Ф Φ ф • **Φ** Rolesville 4 DURHAM COUNTY • Ф Ф Zebulon Φ Wendell ф **\$** • Archer Garner Lodge Φ Clayton Ф Ф Ф Wilson's Fuguay-Varina ф ф Φ Φ

Aspirational Scenario Travel Time (Downtown Raleigh)

Destination	Approx. Time
RDU	35 min.
Downtown Wake Forest	40 min.
Downtown Knightdale	25 min.
Downtown Holly Springs	30 min.

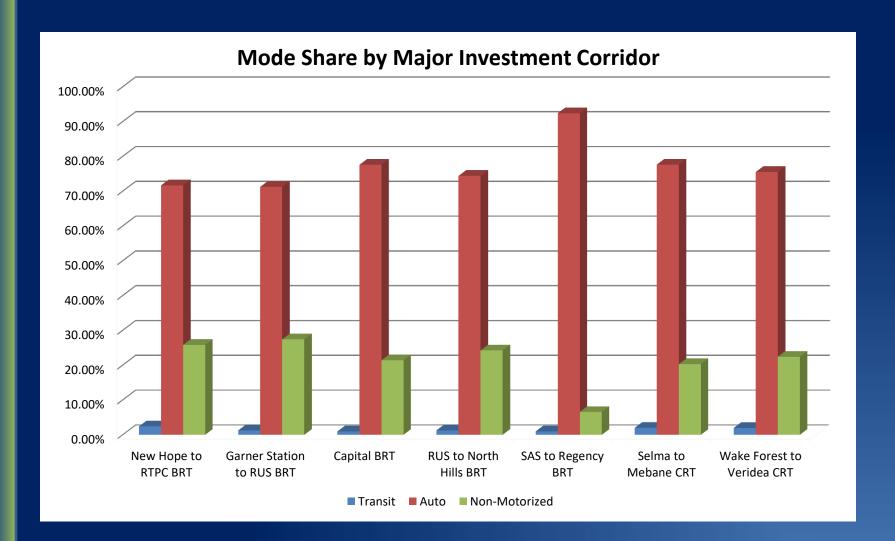


Alternatives Analysis Moderate Scenario



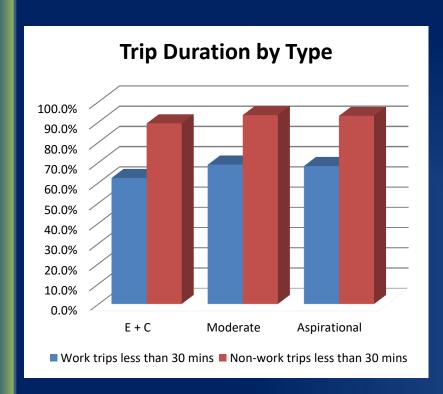


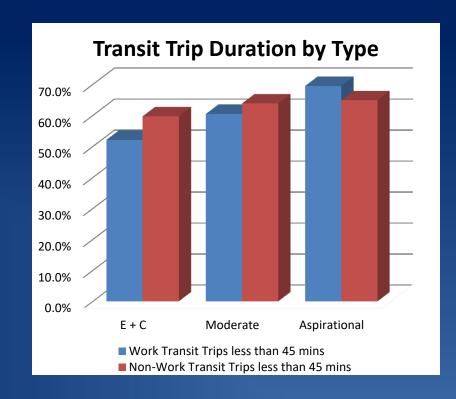
Alternatives Analysis Aspirational Scenario





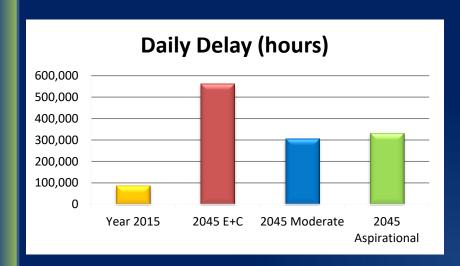
Alternatives Analysis Comparing Alternatives

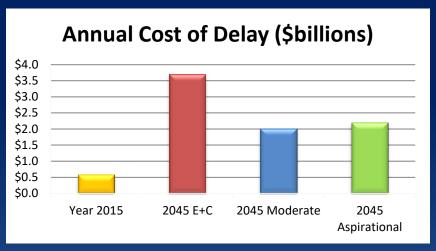


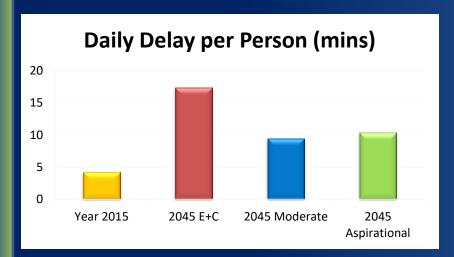


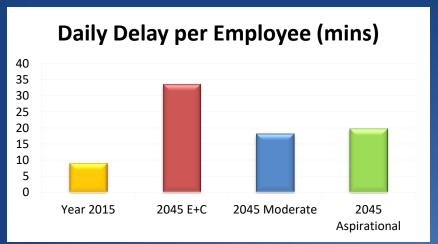


Alternatives Analysis Comparing Alternatives



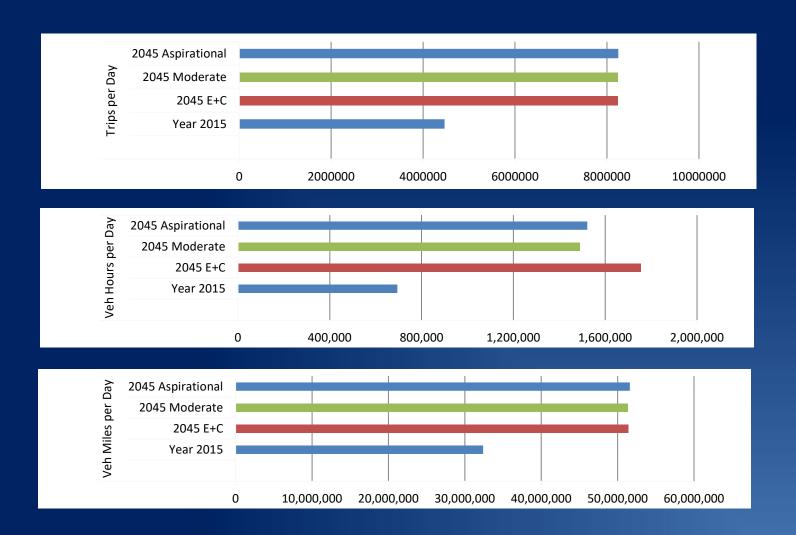








Alternatives Analysis Comparing Alternatives





Building 2045 MTP Financial Forecast

Projected Revenues

Projected Expenditures

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



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



Our Revenue Forecast is derived from:

- 1st Decade:
 - Draft TIP/STIP (10 yr Work Program)
- 2nd & 3rd 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



Our Revenue Forecast is derived from:

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



Two Traditional Revenue options were explored beyond the 1st decade:

- Moderate:
 - Federal Revenues grow based on FAST Act growth
 - Regular adjustments for the gas tax rate (CPI based)

Potential New Revenue Assumptions



Two Traditional Revenue options were explored beyond the 1st decade:

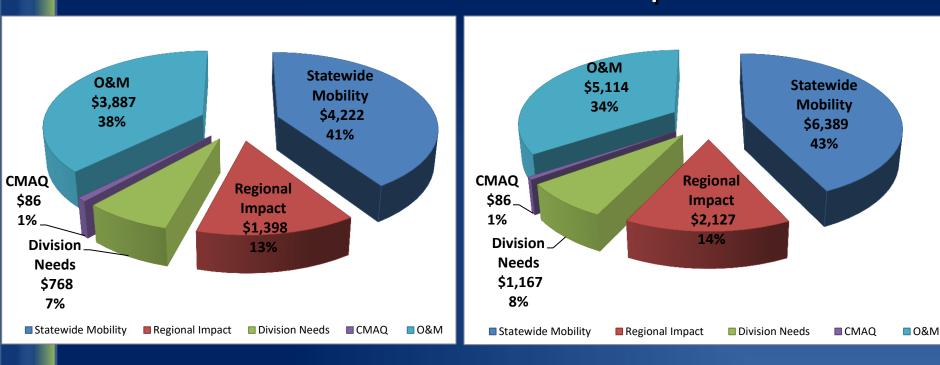
- Aspirational:
 - Builds off of the Moderate revenue assumptions
 - Future state/federal revenues increase to keep pace/extend final STIP programming levels and maintained through 2045
- Potential New Revenue Assumptions



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

Moderate

Aspirational

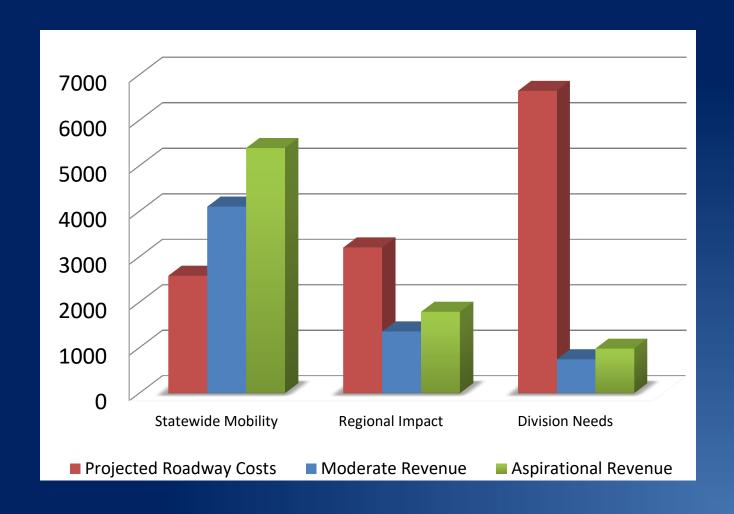


\$10.4 Billion

\$14.9 Billion



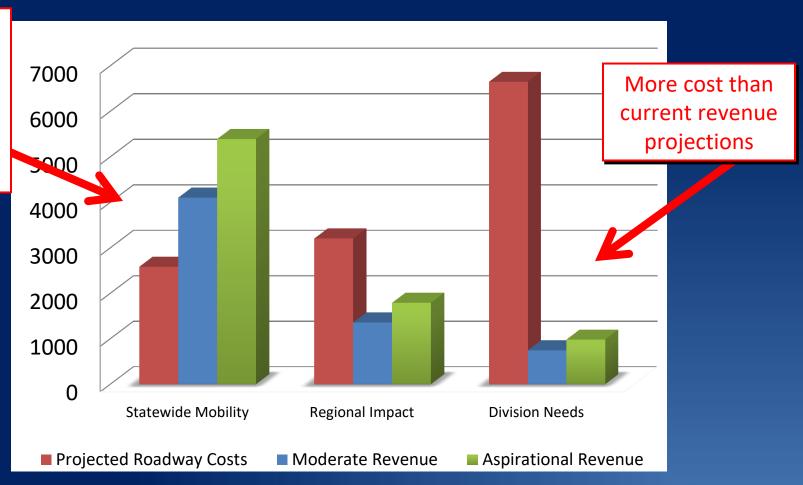
2045 Preliminary Revenue vs. Project Costs (Roadway)





2045 Preliminary Revenue vs. Project Costs (Roadway)

is a statewide competition and not guaranteed





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 regional goals and sustainability goals and desired schedule.
- Monitoring regional growth to ensure the Plan stays abreast of the region's needs



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



2035 LRTP "New" Revenue Sources

ITEM	ASSUMPTION	ASSUMED NEW REVENUE by 2035 (millions)	STATUS
Sales Tax #1	Transit ½ cent sales tax beginning in 2011	\$1,576	Enabling Legislation passed in 2009
Car Registration Fee	\$10 increase in vehicle registration fee in 2011 - TTA increase \$5 to \$8 - Wake County \$7 new fee	\$185	Enabling Legislation passed in 2009
Sales Tax #2	Roadway ½ 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 MTP "New" Funding Options

ITEM	ASSUMPTION	ASSUMED NEW REVENUE (millions in 2012 dollars)	STATUS
Wake I	Roa (STE) beginning (7/71-30 (Wake County)	\$466	No Enabling Legislation
Wake II	Roadway 1 cent sales (STE) beginning in 2031-40 (Wake)	\$836	No Enabling Legislation
Johnston I	Roadway ½ cent sales tax equivalent (\$\frac{1}{2}\$ 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)		No Enabling Legislation
Granville I	Roadway ½ cent sales tax equivalent (STE) beginning in 2031-40 (Granville County)	\$2.8	C. 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

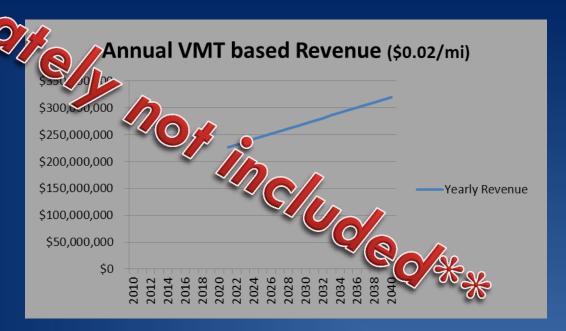
VMT Based Revenue (2021-2040)

• VMT bas Revenue (2021-40)

– Approximate \$5.4 Billion

- \$0.02 / mile

Year	CAMPO Annual VMT
2010	8,643,537,000
2040	16,01 <i>4</i> ,500,700
Annual Growth	
(straight line)	245,698,790



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



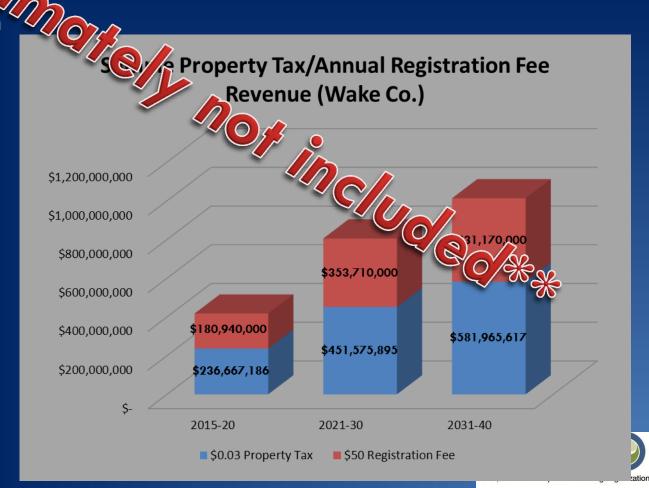
Property Tax & Registration Fee Based Revenue (2021-2040)

Wake Count mple:

- \$0.03/mil

-\$50 Annual Vehicles

Approx. \$2.23 Billion



What has changed for 2045 MTP?

- At the federal level (FAST ACT)
 - Funding levels and rules
 - Performance based approach
- At the state level (STI)
 - Project eligibility vs. funding availability
 - Modal & functional funding rules
- At the regional/local level
 - Updated and adopted Wake Transit Plan
 - Local funding



Sales Tax Equivalent (STE) Options

CAMPO Portion Only	1/2 Cent STE	1 Cent STE
Franklin County		
2026-35	\$ 15,276,389	\$ 30,552,778
2036-45	\$ 14,488,984	\$ 28,977,968
2 nd & 3 rd Decade Total	\$ 29,765,373	\$ 59,530,746
Granville County		
2026-35	\$ 9,253,334	\$ 18,506,668
2036-45	\$ 8,776,381	\$ 17,552,762
2 nd & 3 rd Decade Total	\$ 18,029,715	\$ 36,059,430
Harnett County		
2026-35	\$ 10,750,914	\$ 21,501,828
2036-45	\$ 10,039,597	\$ 20,079,195
2 nd & 3 rd Decade Total	\$ 20,790,512	\$ 41,581,023
Johnston County		
2026-35	\$ 59,592,047	\$ 119,184,094
2036-45	\$ 54,683,594	\$ 109,367,189
2 nd & 3 rd Decade Total	\$ 114,275,641	\$ <i>228,551,283</i>
TOTAL	\$ 182,861,241	\$ 365,722,483



Sales Tax Equivalent (STE) Options

Wake County	1/2 Cent STE	1 Cent STE
2026-35	\$ 1,361,353,717	\$ 2,831,615,730
2036-45	\$ 1,964,914,887	\$ 3,594,144,604
TOTAL	\$ 3,326,268,604	\$ 6,425,760,334

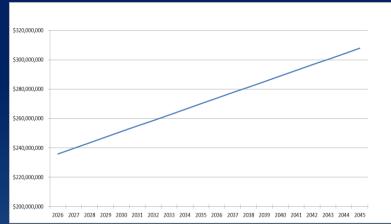


Several different assumptions could be made:

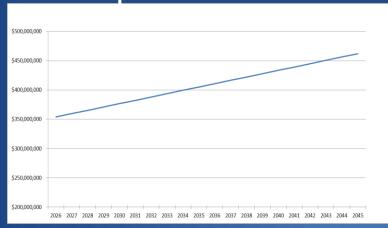
- Replacement of current gas tax based system
 - Replacement revenue needed for the 2045 MTP scenarios:
 - Moderate Approximately \$10.33 Billion (\$0.038 / mile)
 - Aspirational- Approximately \$14.96 Billion (\$0.055 / mile)
- VMT revenue source in addition to gas tax
 - \$0.01 per VMT = \$1.265 Billion Revenue (2026-35)
 - \$0.01 per VMT = \$1.454 Billion Revenue (2036-45)

VMT Based Revenue (2026-2045)

Moderate Scenario VMT



Aspirational Scenario VMT





5.3 2045 Metropolitan Transportation Plan Update

- Evaluating the Alternatives
 - Volume/Capacity (congestion)
 - Volume
 - Delay
 - Difference between how fast you want to go and how fast you can go
 - Measures the impact of both V/C and Volume
 - Transit Service, Accessibility, Ridership
- Moving from Alternatives to Preferred Plan
 - Identifying alternative to advance
 - Measuring project impacts
 - General prioritization
 - Applying fiscal constraint



Upcoming MTP Milestones

Item	Anticipated Updates
Alternatives Analysis Review	April – August 2017
Revenue Forecast Updates	April - August 2017
Preliminary Draft Financial Plan	August/September 2017
Public Involvement (Preferred Alternative)	September/October 2017
"Final" Draft Plan	September/October 2017
Public Hearing	October/November 2017
Adopt 2045 Plan	November/December 2017

Requested Action:

Receive as information. Consider recommendation of scenario to move forward for preferred scenario development

8. Informational Items: Budget

8.1: Member Shares - FY 17

8.2: Operating Budget - FY 17

Requested Action:
Receive as information



9. Information Item: Project Updates

- 9.1 Hot Spot Program
 - Transit SystemsPlanning
 - Regional Freight Plan Study
 - (SRTS) John Rex Endowment Grant Award Update

- NC Non-Motorized Volume Data Program- Phase II Region Roll-out
- Triangle Tolling Study
- NC 98 Corridor
 Study
- Rolesville Main Street Study

Requested Action:
Receive as information



10. Information Item: Staff Reports

- MPO 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
Aug. 16, 2017 – 4:00 – 6:00	Executive Board
Sept. 7, 2017 – 10:00 – 12:00	TCC
Sept. 20, 2017 – 4:00 – 6:00	Executive Board
Oct. 5, 2017 – 10:00 – 12:00	TCC
Oct. 17 – 20, 2017	National AMPO Savannah, GA
Oct. 18, 2017 – 4:00 – 6:00	Executive Board



ADJOURN

