NC Capital Area Metropolitan Planning Organization

Technical Coordinating Committee Meeting

March 5, 2020 10:00 AM



- 1. Welcome and Introductions
- 2. Adjustments to the Agenda
- 3. Public Comments

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





4.1 TCC Meeting Minutes: February 6, 2020

Requested Action:

Approve the February 6, 2020 Meeting Minutes.



5. Regular Business



5.1 FY2018-2027 Transportation Improvement Program Amendment #11



5.1 FY2018-2027 Transportation Improvement Program Amendment #11

NCDOT's STIP Unit notified the MPO of amendments to the FY2018-2027 State TIP. The MPO should update the TIP to reflect these changes (federal requirement - TIP and STIP must be identical).

Amendments also include the addition of Wake Transit Funding and the addition of the LAPP FFY2021 Investment Program.

Open for public review and comment from February 14-March 15. Public Hearing scheduled for March 18, 2020 Executive Board meeting.



Changes since Public Comment Opening

Changed funding source on 3 FFY2021 LAPP projects from CMAQ to STBGDA

- EB-6046
- EB-6047
- EB-6048



5.1 FY2018-2027 Transportation Improvement Program Amendment #11

Requested Action:

Recommend approval of Amendment #11 of FY2018-2027 Transportation Improvement Program to the Executive Board.



5.2 LAPP Program and Prior Year LAPP Projects Update



CAMPO Rescission Impacts

Prior Year Project Determination

- FFY2019 projects have until the end of FFY2020 to request funding authorization.
- FFY2018 and prior year projects have until the end of the first quarter of FFY2020 (December 31, 2019) to request funding authorization.
- Projects that do not reach their respective deadlines must have Executive Board approval to request funding authorization; otherwise, the project will be deprogrammed.

Future Funding Implications Contingent On: Prior Year Project Liability, Additional Funding Requests, Future Programming.



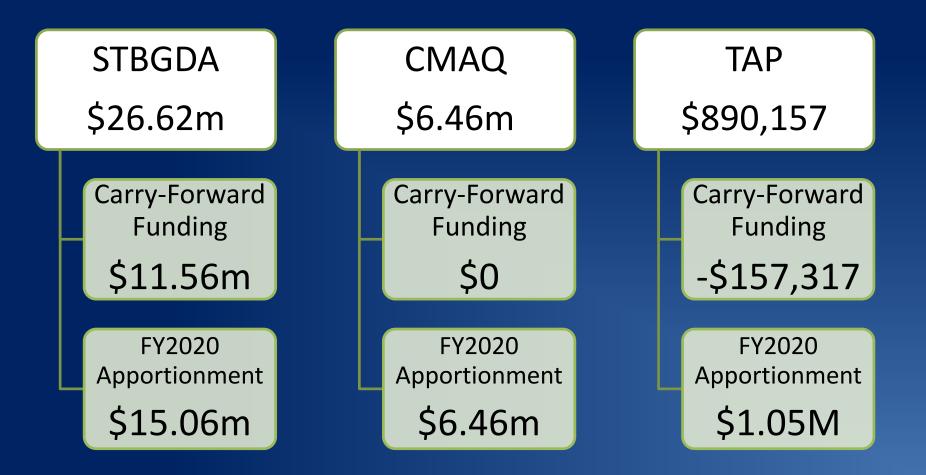
Prior Year Projects at Beginning of FFY2020

			LAPP			
TIP ID	Project	Jurisdiction	Year	Phase(s)	Fund	
U-5537	Lake Pine Drive	Apex	2015	CON	STBGP	\$ 538,153
U-5530OB	Leesville SRTS	Raleigh	2016	CON	STBGP	\$ 442,480
C-5604OD	Crabtree Creek West Greenway	Raleigh	2017	CON	CMAQ	\$ 1,547,000
U-5118BB	Durham Road OI	Wake Forest	2017	ROW	STBGP	\$-
U-5530PA	NC 210 Sidewalk Connections	Angier	2017	CON	STBGP	\$ 356,680
U-5928	Peakway South Salem Interchange	Apex	2017	CON	STBGP	\$ 2,500,000
U-5118FB	Arendell Ave Access Management	Zebulon	2017	CON	STBGP	\$ 916,000
				ROW,		
C-5604JA	Utley Creek Greenway	Holly Springs	2017	CON	CMAQ	\$ 508,800
C-5604HA	Mingo Creek Greenway	Knightdale	2018	CON	CMAQ	\$ 1,760,000
				ROW,		
C-56040F	Blue Ridge Road Pedestrian Improvements	Raleigh	2019	CON	CMAQ	\$ 3,598,800
C-5604FA	Beaverdam Creek Greenway	Zebulon	2019	CON	CMAQ	\$ 1,605,196
				PE, ROW,		
U-6095	Rock Quarry Road Part A	Raleigh	2019	CON	STBGP	\$ 9,928,100
C-5604AA	Kelly and Apex Barbecue Pedestrian Improvements	Арех	2019	CON	CMAQ	\$ 647,500
U-6094	Holly Springs Road Widening	Holly Springs	2019	CON	STBGP	\$ 1,216,804
				ROW,		
U-6095	New Bern Ave Bottleneck Elimination	Raleigh	2019	CON	STBGP	\$ 409,600
C-5604ID	Higgins Greenway	Cary	2019	CON	CMAQ	\$ 700,000
U-5530OC	Navaho Drive	Raleigh	2019	CON	TAP	
	Total					\$ 26,675,113

FFY2020 LAPP Projects

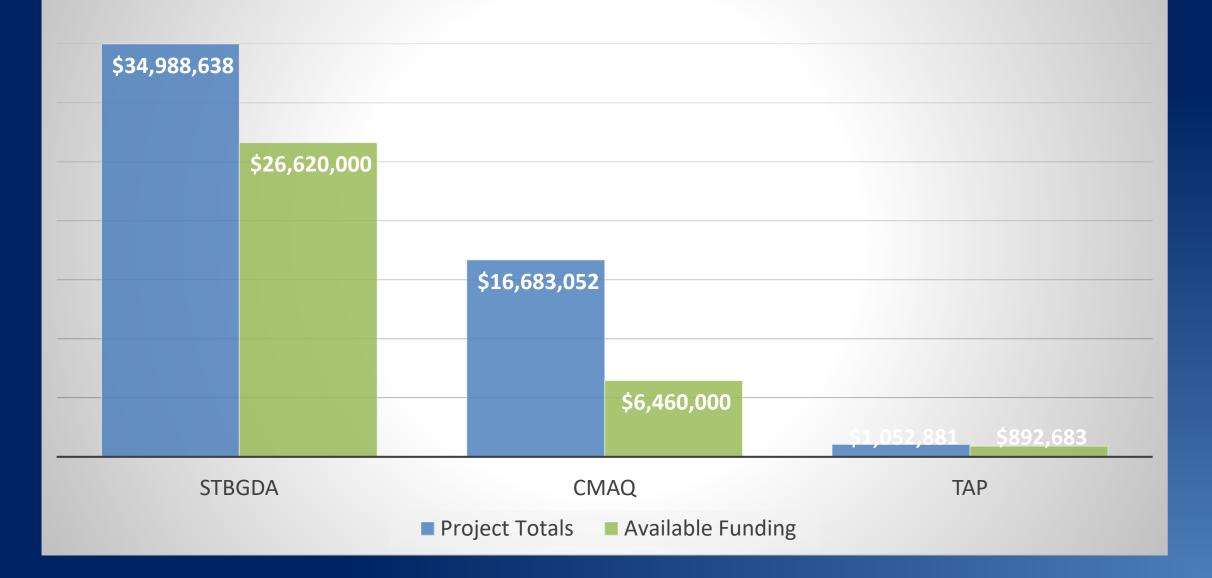
Projects	Jurisdiction	Source	Amount
NC 98 at Camp Kanata	Division 5	STBGDA	\$ 1,097,600
42 E Extension	Clayton	STBGDA	\$ 6,735,000
NC 42 Turn Lanes	Division 5	STBGDA	\$ 1,834,750
White Oak, Hebron, Ackerman Roundabout	Garner	STBGDA	\$ 1,616,712
Judd & South Main Intersection Improvements	Fuquay-Varina	CMAQ	\$ 494,610
Carpenter Fire Station Widening	Cary	STBGDA	\$ 2,533,500
Hwy 55 and NE Judd Parkway Intersection Improvements	Fuquay-Varina	CMAQ	\$ 1,516,106
Crabtree Creek Greenway- Bond to High House	Cary	CMAQ	\$ 1,320,000
Jones Street Sidewalk	Fuquay-Varina	CMAQ	\$ 725,040
Laura Duncan Pedestrian Improvements	Арех	STBGDA	\$ 387,800
Crabtree Creek Greenway Connector	Cary	CMAQ	\$ 2,260,000
Junny Road Sidewalk Extension	Angier	STBGDA	\$ 1,426,000
Beaver Creek Greenway Extension	Арех	ТАР	\$ 1,052,881
GoRaleigh Bus Stop Sites	GoRaleigh	STBGDA	\$ 2,000,000
Total			\$ 24,999,999

Available Funding Balances at Beginning of FFY2020





Available Funding to Spend Versus Existing Project Totals



Overprogramming

<u>What</u>: CAMPO programs (awards) more funding for projects in a fiscal year than is actually received through allocation.

<u>Why</u>: CAMPO overprograms to help obligate (protect) as much funding as possible in a fiscal year. Overprogramming allows a buffer in case projects fall behind schedule or are cancelled.

<u>**How</u>**: CAMPO generally overprograms around 20% above anticipated STBGDA and TAP allocations.</u>

* Overprogramming is noted in the LAPP Handbook, and is another reason why projects are encouraged to obligate their funding as early as possible in their awarded fiscal year.



Scenarios Moving Forward

Scenario 1: All prior year and FFY2020 projects obligate in FFY2020

Scenario 2: All prior year projects obligate and 33% of FFY2020 projects obligate in FFY2020

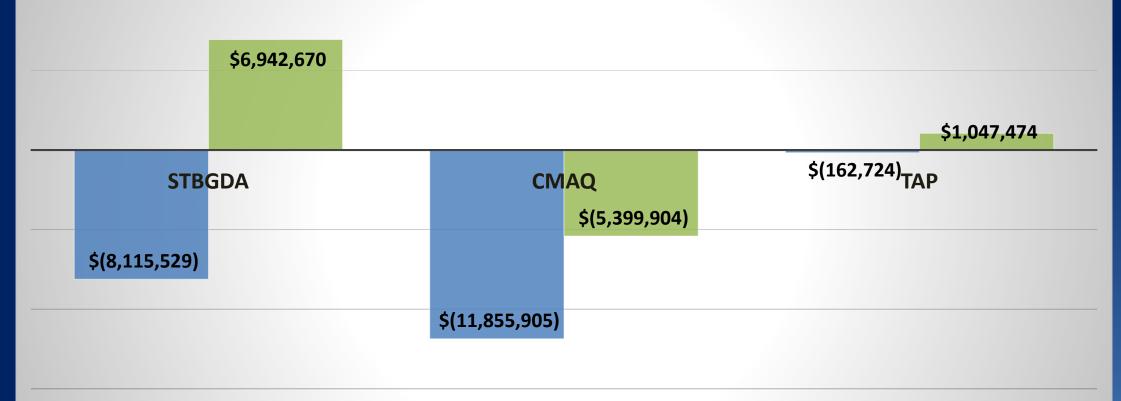
Scenario 3: Prior year projects are cancelled and 33% of FFY2020 projects obligate in FFY2020

* 33% is average obligation rate based on prior year data



Scenario 1: All Prior Year and FFY2020 Projects Obligate in FFY2020





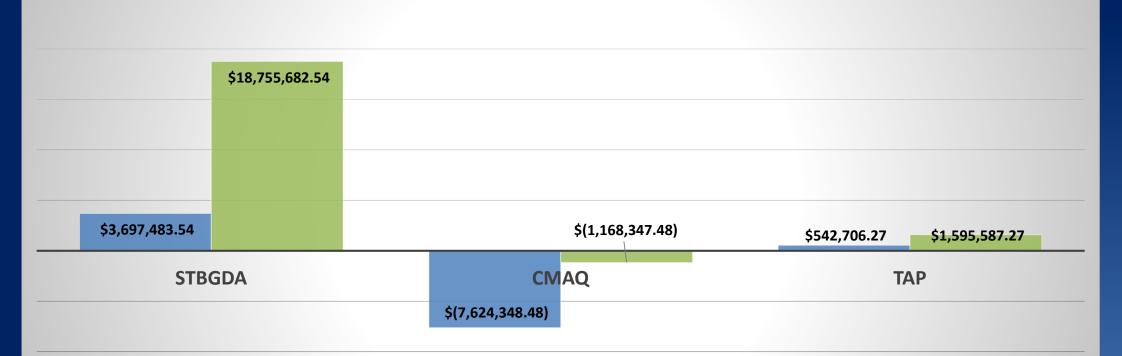
Remaining Balance After ALL LAPP Projects Obligate (FY20 and prior)

Remaining Balance After FFY21 Apportionment



Scenario 2: All Prior Year Projects Obligate at 33% of FFY2020 Funding Obligate in FFY2020

Scenario 2: Available Funding September 30 vs October 1



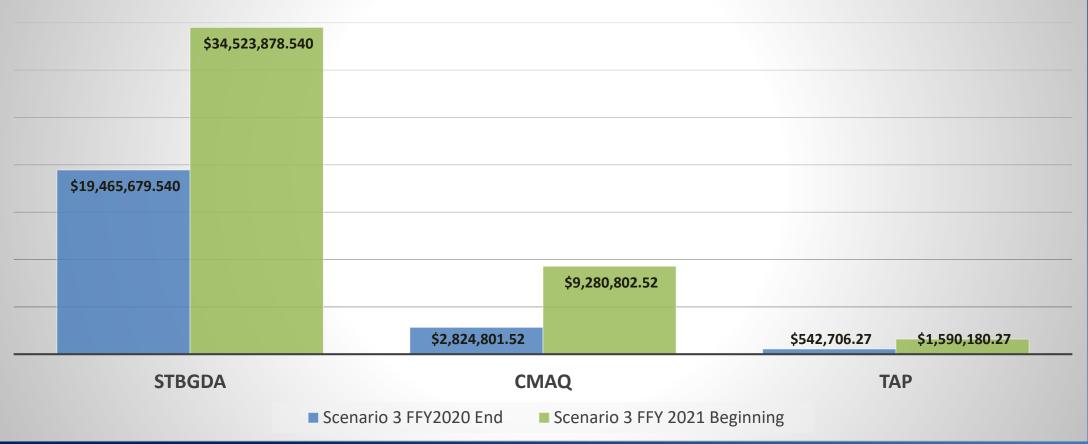
Scenario 2 FFY20 End Remaining Balance IF FY20 projects obligate at obligation rate of 33% and all Prior Year Projects Obligate

Scenario 2 FFY21 Beginning Remaining Balance After FFY21 Apportionment



Scenario 3: Prior Year Projects are Cancelled and 33% of FFY2020 Funding Obligate in FFY2020

Scenario 3: Available Funding September 30 Versus October 1





Potential Options Moving Forward

- Redistribute funding between funding sources
- Cancel some/all Prior Year LAPP projects that do not meet respective grace period deadlines
- Program lower funding amounts in future LAPP Call for Projects
 - Gradual reduction over time
 - Significant reduction in 1 or 2 fiscal years



5.2 LAPP Program and Prior Year LAPP Projects Update

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



5.3 Prioritization 6.0 Modal Candidates Project Lists



2023-2032 TIP/STIP Development SPOT Actions - MPOs

1. Select Projects to Submit for Scoring (44 projects per mode)

2. Assign Local Input points

- Regional Impact Points (2500 pts)
- Division Needs Points (2500 pts)

3. Adopt TIP



FINAL Prioritization 6.0 Schedule

Schedule Update

2019							2020											
Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sept	Oct	Nov	Dec	
BOT approves P6.0 Criteria & Weights		BOT adopts 2020-2029 STIP																
MPOs, RPOs, & Divisions test, enter, a						enter, and su	Ibmit projects	into SPOT C	online									
											SPOT Revie	ws and Calcu	ilates Quant.	Scores for Al	l Projects (Ex	isting + New)		
	Notes:													costs to be us (by MPOs	od of all data & sed for scoring , RPOs, and sions)			
Yellow	Box = MP	OT Actions O/RPO/Divi DOT Work 1	ision Input														NCDOT Provides Report to JLTOC	

					20	2021							2022								
Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Мау	Jun				
DT Reviews an Iculates Quant Scores for All ojects (Cont'd.		Impact Loca	l Input Points (ssign Regional with option to al Input Points)	SPOT finaliz Impact score: programs Re	POT finalizes Regional pact scores and TIP Unit grams Regional Impact projects		October 2019: December 20, 2 May 1, 2020: Ar S End of Februar March 1, 2021: End of July 202 August 2, 2021:		 SPOT opproves P6.0 Criteria 8 SPOT Online opens for te 0, 2019: Carryover Project D Carryover Project M Area-Specific Weights due SPOT Online closes for su Jary 2021: Quantitative scor Draft list of Prog Regional Impact Local In Deadline for Approval of 2021: Draft list of Programm 21: Division Needs Local In 22: DRAFT 2023-2032 STIP 		esting, enter Deletions du Modifications bmitting pro res for all pri rammed Sta put Point wi Local Input ed Regiona put Point wi	e for receivir s due jects ojects releas atewide Mob ndow opens Point Assign I Impact Proj	ed ility projects for 3 month ment Metho jects release	released s (closes 5/2 odologies ed	but, one in) 8/2021)					
							MPOs, RPOs, Needs	& Divisions a		SPOT finalize TIP Unit progr	s Division Nee rams Division N NCDOT Provides Report to JLTOC						BOT ad 2023-2 STI				



SPOT Schedule & Next Steps

Public Hearing – April 15th

Executive Board Project List Approval – April 15th

CAMPO Submits Projects in SPOT Online by May 1st

Alternate Criteria Weights due – May 1st



5.3 Prioritization 6.0 Modal Candidates Project Lists

Requested Action

Receive as information.



5.4 NC 540 Bonus Allocation Programming



CAMPO Bonus Allocation

STI law provides Bonus Allocation funding for:

- Local funding participation
 - ½ of local contribution
- Highway Tolling
 - ½ value of toll revenue bonds
 - ½ forecasted revenue for 1st 10 years –operation costs
 - \$100 million maximum
 - Must be programmed within toll county
- Programming Limitations
 - 10 percent Regional/Division Needs
 - Must be obligated within 5 years
 - Use on highway or highway-related projects only

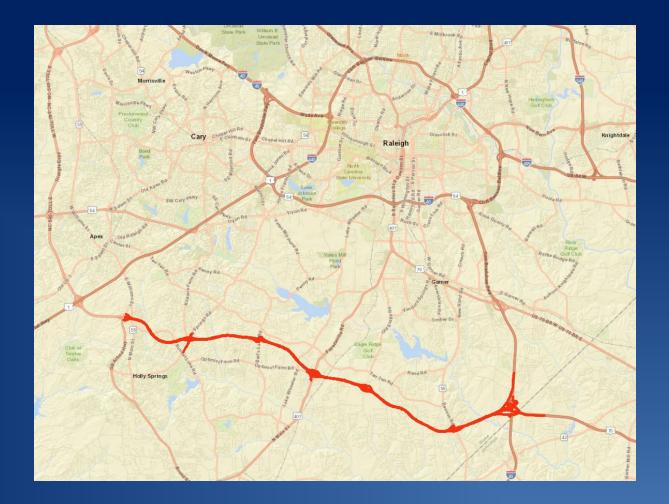


CAMPO Bonus Allocation

NC 540

R-2721: NC 540 fr/ NC 55 to US 401 R-2828: NC 540 fr/ US 401 to I-40

\$100,000,000 Bonus Allocation Must be programmed 2021-2025





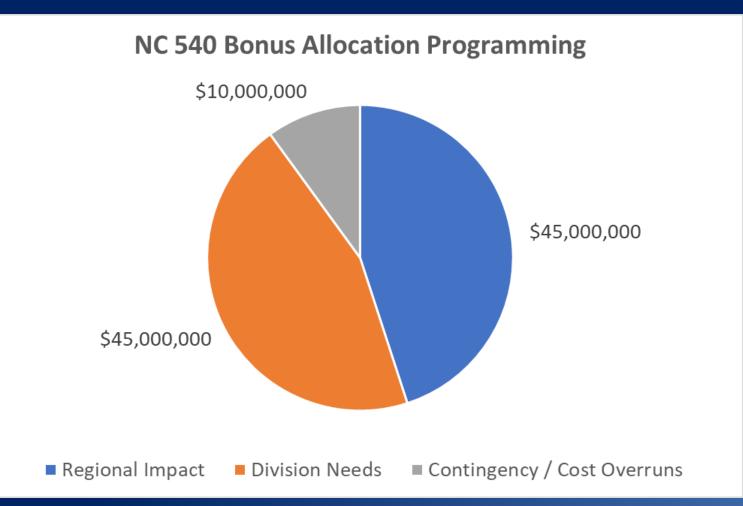
CAMPO Bonus Allocation

Guiding Principles

- Inclusion in the Metropolitan Transportation Plan (MTP)
- Logical Nexus to Generating Source of Bonus Allocation Funds
- Recognition of Funding Challenges with Strategic Transportation Investment law
- Recognition of Funding Opportunities with Strategic Transportation Investment law



5.4 CAMPO Bonus Allocation Methodology





Project	10 Year Travel Time Savings (In Hours)*	Project Rank	Programmin g Amount
US 401 Superstreet (A644 2035) from Lake Wheeler to Hilltop Needmore	5,883,000	1	\$15,000,000
NC 55 & Technology Drive Grade Separation (A98c 2045) (E. Williams Street extended to the intersection of Old Smithfield/Sunset Lake Road	4,901,000	2	\$30,000,000
NC 55 & Holly Springs Road Interchange	1,606,000	3	
NC 55 & Main Street Interchange	226,000	4	
NC 50 Widening and Intersection Improvements from Timber Drive to Rand Road	-349,000	5	

* Travel Time Savings based on future year projected volumes from the Triangle Regional Model (V6) for Horizon Year 2025

Projects Travel Time Savings Calculations are based on NCDOT SPOT Travel Time Savings Methodology



Intersections To Considered for NC 540 Bonus Allocation Funding			Total Crashes		Crash rate				T						
County	-	Delay/year	CAMPO		otal Annual	Street 1	Street 2	TOTAL	Total	Crash	Crash	SPOT Online Cost Estimate Basis	Division Cost		Regional Cost
	Tier	(hours @260 days)	Final Rank (Delay)		(260 days) Delay Cost			CRASHES	Crashes (Rank)	Rate	Rate (Rank)				
Wake	Division	91,304				Ten Ten Rd(SR 1010)	Lake Wheeler Rd (SR 1375)	25	8	54.5		\$1,430,000 for 2 turn lanes	\$ 1,430,000	,	
Wake	Division	90,103	2	\$	1,613,752	Kildaire Farm Rd(SR 1300)	Penny Rd(SR 1379)	34	4	58.0	14	\$715,000 to add 1 turn lane\$14,101,000 to widen Penny	\$ 715,000)	
Wake	Division	69,939	4	\$	1,252,611	Holly Springs Rd(SR 1152)	Sunset Lake Rd(SR 1301)	66	1	141.8	3	\$1,430,000 for 2 turn lanes	\$ 1,430,000		
Wake	Division	56,138	6	\$	1,005,424	Old Stage Rd(SR 1006)	Ten Ten Rd(SR 1010)	46	2	97.3	6	\$1,430,000 for 2 turn lanes; \$7.354,000 for widening from Old Stage	\$ 8,784,000)	
Wake	Division	52,173	7	\$	934,420	Lake Wheeler Rd (SR 1375)	Hilltop Needmore Rd (SR 1393)	26	6	105.5	5	\$2,860,000 for 4 turn lanes	\$ 2,860,000)	
Johnsto	Division	49,834	8	\$	892,535	Cleveland Rd (SR 1010)	Old Drug Store (SR 2981)	15	14	93.2	8	\$2,860,000 for four turn lanes	\$ 2,860,000)	
Wake	Division	49,355	9	\$	883,941	Lake Wheeler Rd(SR 1375),	Simpkins Farm Ln(Local), Simpkins Rd(32	5	128.9	4	\$2,145,000 for 3 turn lanes	\$ 2,145,000		
Wake	Division	40,182	10	\$	719,656	Old Stage Rd(SR 1006)	Rock Service Station Rd(SR 2736)	36	3	225.4	2	\$2,214,000 for 1 lane roundabout	\$ 2,214,000		
Wake	Division	26,862	13	\$	481,104	Ten Ten Rd(SR 1010)	Bells Lake Rd(SR 1386), Graham Newto	26	6	78.9	10	\$2,860,000 for 4 turn lanes	\$ 2,860,000	1	
Wake	Division	24,673	15	\$	441,898	Hilltop Needmore Rd(SR 13	Johnson Pond Rd(SR 1404)	18	12	67.6	12	\$1,430,000 for 2 turn lanes	\$ 1,430,000		
Wake	Division	22,716	17	\$	406,841	Holly Springs Rd(SR 1152)	Arthur Pierce Rd(SR 1305)	5	19	19.7	19	\$9,509,000 for realignment with center turn lanes (?)	\$ 9,509,000)	
Wake	Division	22,459	18	\$	402,239	NC 42	Rock Service Road					\$2,145,000 for 3 turn lanes	\$ 2,145,000)	
Wake	Division	21,668	19	\$	388,073	Ten Ten Rd(SR 1010)	Rand Rd(SR 2728)	14	15	41.5	17	\$1,430,000 for 2 turn lanes	\$ 1,430,000		
Wake	Division	17,034	21	\$	305,073	SR 1390 (Optimist Farm)	SR 1404 (Johnson Pond Rd)	9	17	54.8	15	Cost: \$2,860,000 for 4 turn lanes	\$ 2,860,000		
Wake	Division	16,212	22	\$	290,348	Optimist Farm Rd(SR 1390)	Bells Lake Rd(SR 1386)	19	11	79.2	9	\$2,214,000 for 1 lane roundabout	\$ 2,214,000		
Wake	Division	15,352	24	\$	274,961	Ten Ten Rd(SR 1010)	Johnson Pond Rd(SR 1404), Blaney Fra	25	8	93.5	7	\$80,000 for two signalized intersections	\$ 80,000)	
Wake	Division	11,229	26	\$	201,105	SR 1390 (Optimist Farm)	SR 1391 (Manns Loop)	7	18	34.9	18	\$715,000 for 1 turn lane	\$ 715,000)	
Wake	Division	9,451	27	\$	169,260	White Oak Rd(SR 2547)	Hillandale Ln(SR 2876)	5	19	10.7	20	\$52,000 for one signalized intersection	\$ 52,000)	
Wake	Division	7,641	28	\$	136,858	Old Stage Rd(SR 1006)	Legend Rd(SR 2717)	1	21	4.9	21	\$715,000 for 1 turn lane	\$ 715,000)	
Wake	Division	7,357	29	\$	131,758	SR 1382 (Olde South Rd)	Penny Rd(SR 1379)	24	10	252.4	1	\$715,000 per turn lane	\$ 715,000)	
Wake	Division	6,328	30	\$	113,332	Old Stage Rd(SR 1006)	Woodland Rd(SR 2715)	18	12	73.9	11	\$715,000 for 1 turn lane	\$ 715,000		
Wake	Division					Johnson Pond Rd(SR 1404)	Whitted Rd(SR 1407)	10	16	64.1	13	\$2,214,000 for 1 lane roundabout	\$ 2,214,000)	
													\$ 50,092,000)	
County	Funding Tier	Delay/year (hours @260 days)	CAMPO Final Rank (Delay)	(otal Annual (260 days) Delay Cost	Street 1	Street 2	TOTAL CRASHES	Total Crashes (Rank)	Crash Rate	Crash Rate (Rank)	SPOT Online Cost Estimate Basis	Division Cost		Regional Cost
Wake	Regional	74,342	3	\$	1,331,469	NC-50(Benson Rd)	Timber Dr(SR 2812), Timber Drive East	118	1	195.9	1	Extend RTL NB from Timber to New Rand		\$	141,000
Wake	Regional	67,906	5	\$	1,216,200	NC-55(Main St)	Holly Springs Rd(SR 1152)	29	5	61.1	7	\$715,000 to add 1 turn lane		\$	715,000
Wake	Regional	33,082	11	\$	592,499	NC-50(Benson Rd)	Rand Rd(SR 2728)	16	8	39.9	8	\$553,000 to extend turn lane		\$	553,000
Wake	Regional	27,438	12	\$	491,415	NC-42	Hilltop Rd(SR 2751)	12	9	37.1	9	Hot Spot Recommendation \$6m: Relocate Hilltop Rd and Panther L		\$	6,000,000
Wake	Regional	25,318	14	\$	453,454	NC-42	Old Stage Rd(SR 1006)	21	6	63.4	6	\$1,430,000 for 2 turn lanes		\$	1,430,000
Wake	Regional	24,365	16	\$	436,383	NC-42	Johnston Rd(SR 2735)	18	7	69.7	5	\$715,000 for 1 turn lane		\$	715,000
Wake	Regional	17,533	20	\$	314,009	NC-50(Benson Rd)	Steven Oaks Dr(SR 5324)/Cleveland Sc	70	2	195.7	2	\$715,000 to add 1 turn lane		\$	715,000
Wake	Regional	16,118	23	\$	288,681	Ten Ten Rd(SR 1010)	NC-50(Benson Rd)	66	3	186.4	3	\$715,000 to add 1 turn lane		\$	715,000
Wake	Regional	13,730	25	\$	245,906	NC-55 (Williams St)	Sunset Lake Rd(SR 1301), Old Smithfie	48	4	111.9	4	\$715,000 for 1 turn lane		\$	715,000



\$ 11,699,000

5.4 CAMPO Bonus Allocation Methodology

Requested Action:

Recommend the release of the project candidate list for public review and comment to the Executive Board, with a public hearing scheduled on April 15, 2020.



5.5 FY 2020 Wake Transit Work Plan Amendment Request -Commuter Rail Early Project Development



PROPOSED SCOPE OF WORK

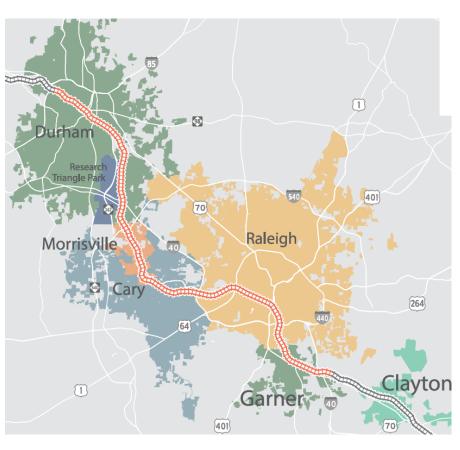
- Community Engagement and Impacted Agency Coordination Activities
- NEPA and Constructability Scoping
- Preliminary Engineering in High Risk Areas
- Concurrence Process and Locally Preferred Alternative
- Land Availability for Park-and-Rides, Stations, Maintenance Facilities
- Network Capacity Modeling
- Refine Schedule and Cost Estimates
- Determine Railroad Owner Requirements
- Cost Share for Project Design, Construction, Operation



GREATER TRIANGLE COMMUTER RAIL

Proposed Wake Share For Next Phase of Study:

Funding Source	Budget Amount
Carry-over funds for RTC Study (originally allocated FY19)	\$ 333,333
Allocation of FY18 CRT Reserve funds	\$ 2,303,038
FY20 Budget Amendment from CRT Reserve funds	\$ 3,363,269
Total (Not to Exceed)	\$ 6,000,000





5.5 FY 2020 Wake Transit Work Plan Amendment Request -Commuter Rail Early Project Development

Requested Action:

Recommend approval of the FY20 Wake Transit Work Plan amendment request to fund early project development activities for commuter rail to the Executive Board, with the condition that no funds will be spent until an MOU detailing the cost share is approved by the appropriate Boards.



5.6 Memorandum of Understanding (MOU) in Support of Continued Development of the Greater Triangle Commuter Rail Project



MOU HIGHLIGHTS

Parties:

- DCHC MPO and <u>CAMPO</u>
- GoTriangle, NCRR, NCDOT
- Durham County, Wake County, Johnston County

Purpose:

- Roles/Responsibilities of Agencies for Early Project Development
- Tasks to be Completed for Early Project Development
- $\,\circ\,$ Tasks to Lay Foundation for Potential Future Implementation
- Cost Share for Early Project Development
- Define Project Concept to Carry Forward (if Viable and Desired)



COMMUTER RAIL UPDATE CAMPO TCC March 5

GO FORWARD A COMMUNITY INVESTMENT IN TRANSIT

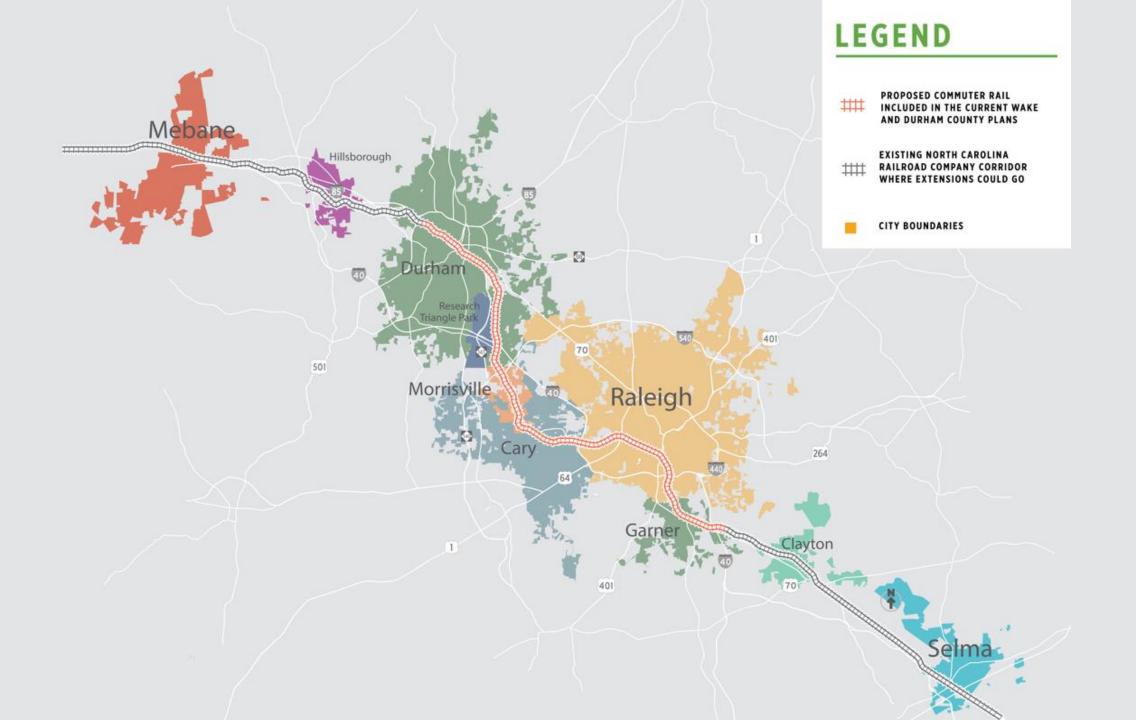
NOTE:

Mebane

This map highlights major regional transit investments, including bus rapid transit, commuter rail and key regional bus connections. Not shown are substantial increases in bus coverage and route frequency within Raleigh, Durham, Chapel Hill and Cary.

Carrboro





STUDY FINDINGS

END POINTS	WEEKDAY ROUND TRIPS	EXPECTED FEDERAL SCORE	RANGE OF CAP. COST* [YOE\$]	0&M COST [2019\$]	RANGE OF RIDERSHIP**
Durham-Garner	20	MEDIUM	\$1.4B - \$1.8B	\$29M	7.5K – 10K
Durham-Garner	12	WEAK MEDIUM***	\$1.4B - \$1.8B	\$20M	5K - 7.5K
Durham-Garner	7	WEAK MEDIUM***	\$1.4B - \$1.7B	\$13M	4.5K - 6K
Mebane-Selma	20	MEDIUM-LOW	\$2.5B - \$3.2B	\$57M	8K – 11.5K
Mebane-Selma	12	MEDIUM-LOW	\$2.5B - \$3.2B	\$40M	6K - 9K
Mebane-Selma	7	MEDIUM-LOW	\$2.3B - \$3.1B	\$26M	5K - 7.5K
HillsbClayton	20	WEAK MEDIUM***	\$1.8B - \$2.4B	\$44M	8K – 11.5K
Durham-Clayton	20	MEDIUM	\$1.6B - \$2.1B	\$37M	7.5K – 10K

TO BE ELIGIBLE FOR FEDERAL FUNDING, PROJECT MUST SCORE A MEDIUM RATING

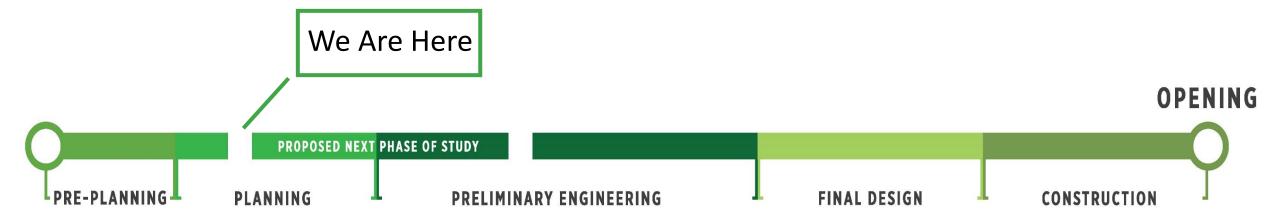
*Cost: Year-of-Expenditure Dollars (YOE\$)

**Daily Ridership: Average of Base Year (2018) and Horizon Year Forecast (2040)

***Scenarios rated as "Weak Medium" are projected to score at the bottom of the medium range, meaning that a drop in any single sub-score could cause the project to be ineligible for funding

ADDITIONAL STUDY:

- Proactive and comprehensive community engagement to share information and get feedback from the public needed to update transit plans in all three counties.
- Evaluation of what railroad infrastructure improvements and construction would be needed.
- Further evaluation of potential risks to the project and their potential solutions.



FOCUS ON RISK MANAGEMENT

Requirements Risk:

- Difficulty of succinctly and fully developing project requirements
- Differences in project stakeholder goals

Design Risk:

- $\,\circ\,$ Design-related assumptions change
- $\,\circ\,$ Situations where unknown factors cause designs to change

Market Risk:

• Open market pricing and/or contract packaging strategies

Construction Risk:

- $\,\circ\,$ Site activities
- Coordination of contractors





Coordination with Others:

Build consensus on project responsibilities, cost share and other characteristics of a feasible commuter rail system through coordination among:

- GoTriangle
- Counties
- Railroads
- Municipalities
- Metropolitan Planning Organizations
- North Carolina Department of Transportation
- Institutions
- Community

NEXT PHASE OF STUDY: KEY FOCUS AREAS

Local Engagement: Build a foundation for sustained regional cooperation **Further Refine Project Concept:** Define infrastructure and frequency of trains **Metrics:** Provide monetary costs, non-monetary costs, and benefits **Railroad Buy-in:** Rail network modeling, determine necessary requirements **Capacity Building:** Develop management plan and procure consultant support **FTA Funding Eligibility:** Ridership modeling and economic development potential **Cost Share:** Obtain commitment of 100% of non FTA funds



NEXT PHASE OF STUDY: TIMELINE

	MAR: Boards consider MOU + \$	Engage consultant	Agree on cos share	st	Decision to advance project
		Study Activities			
FEB: Bri boards MOU		Develop community and stakeholder engagement plans	utions oport of ct	for proj	ents needed ect design plementation

Community engagement, coordinated with local plan updates Ongoing coordination with railroads, municipalities and stakeholders Regular updates to TPAC, MPO Technical Committees, MPO Boards, County Boards

CRITICAL NEXT STEPS

Memorandum of Understanding for next phase (early project development activities):

 NCRR, NCDOT, GoTriangle, Counties, MPOs

Public board meetings with County boards and MPOs for local decision-making on next steps and funding for additional preliminary effort:

- Wake: \$6,000,000
- Durham: \$2,700,000
- Johnston: \$250,000

5.6 Memorandum of Understanding (MOU) in Support of Continued Development of the Greater Triangle Commuter Rail Project

Requested Action:

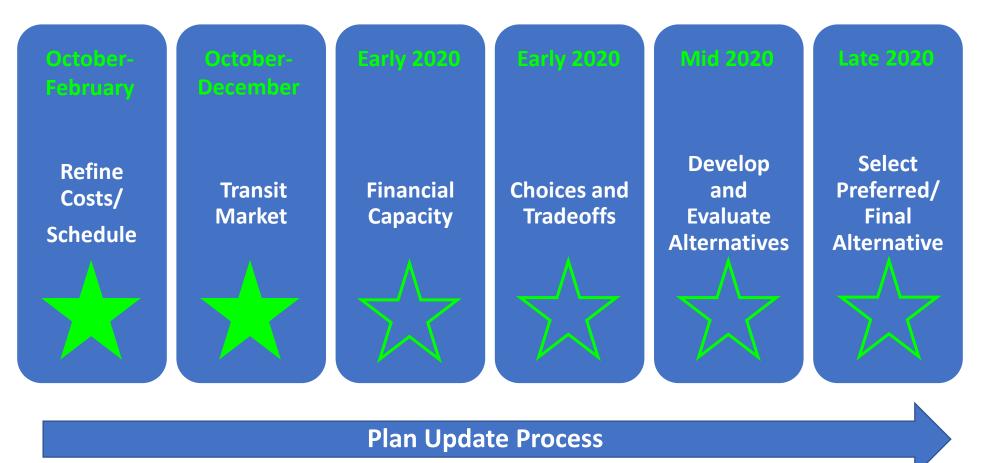
Recommend approval of CAMPO's participation in the MOU in support of continued development of the Greater Triangle Commuter Rail Project to the Executive Board and authorization for the Executive Director to sign the MOU.



5.7 Wake Transit Plan Update Status Report

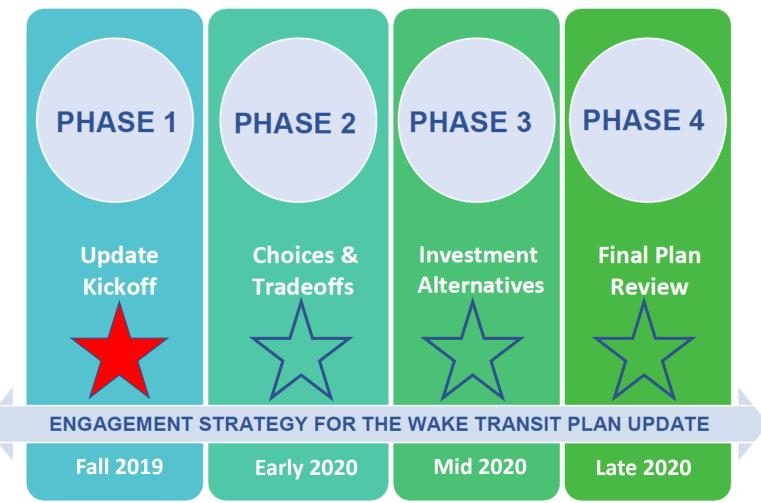


Plan Update Task Schedule





Updated Engagement Schedule





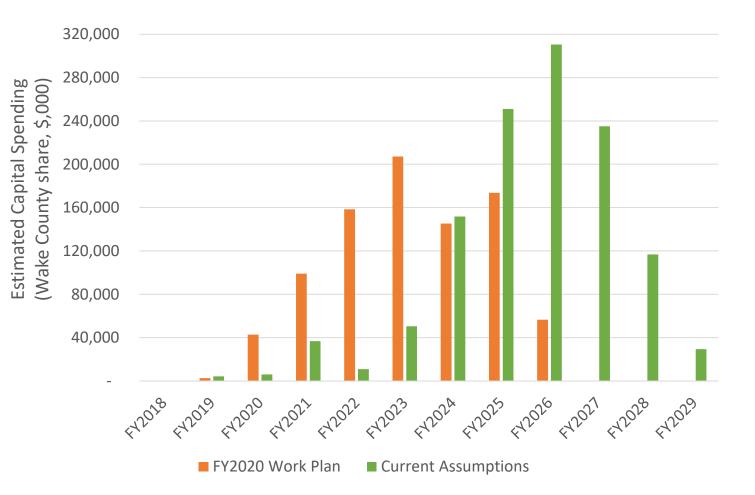
Outlook for March-May

	ACTION	DATE
•	Receive Results for Financial Capacity Scenarios	
•	Determine Scale/Framework for Engagement Based on Financial Capacity	Late March, 2020
•	Share/Refine Plan for Engagement	
•	Workshop to Set Engagement Plan Into Motion	Early April, 2020
•	Public and Stakeholder Engagement Period	Late April – Early May, 2020

Updated Cost and Timeline Estimates – Commuter Rail

Updated Assumptions (for Vision Plan Update)

- \$933 \$1,202.9 million Wake share (year of expenditure \$'s)
- Spent in FY19 to FY29
- Assumes service opens in FY29





Financial Impact

CONVERT EVERYTHING TO FY 2020 DOLLARS TO UNDERSTAND SOURCE OF IMPACTS

Source of Impact	Lower Limit	Upper Limit
Changes to Project Characteristics or New Cost Estimates for Same Project Characteristics	-\$29,780,000	+\$183,624,000
	+\$48,057,000	
Changes to Years of Expenditure	(+\$77,837,000 compared to new project assumption)	+\$134,000,000
Total Impact from Both Sources	+\$48,057,000 (+\$77,837,000 compared to new project assumption)	+\$317,624,000

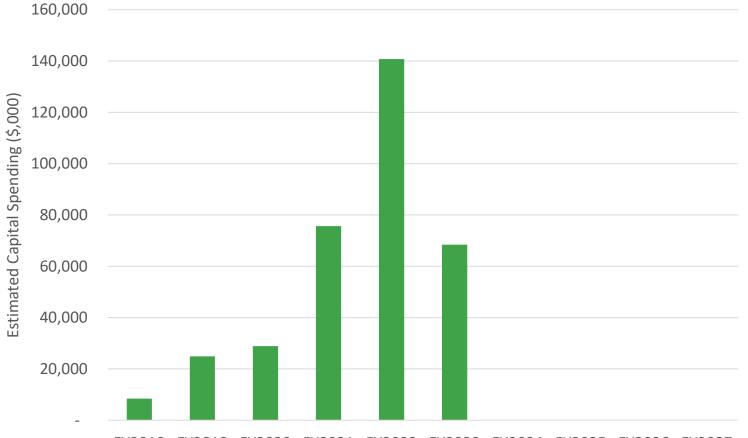
Impacts are compared to original assumptions



Updated Cost and Timeline Estimates – Bus Rapid Transit

Original Wake Transit Plan

- \$347 million for all corridors (YOE \$'s)
- Spending in FY18 to FY24
- Service opens in FY24 on all corridors
- Assumed 50% corridors with dedicated runningway



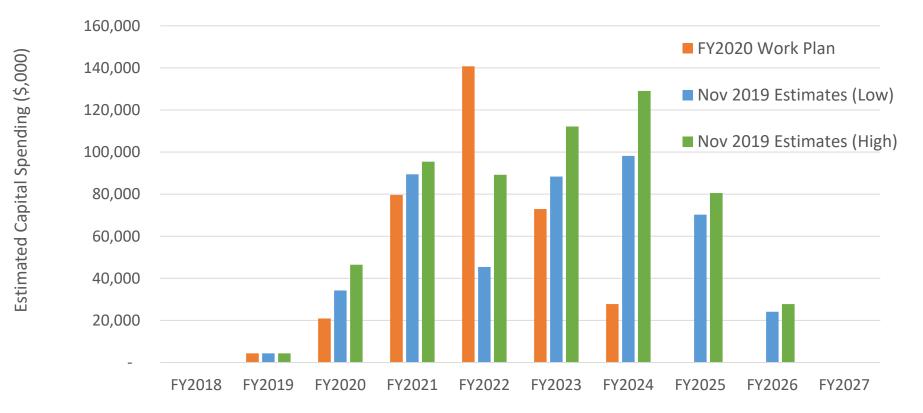
FY2018 FY2019 FY2020 FY2021 FY2022 FY2023 FY2024 FY2025 FY2026 FY2027

GO FORWARD A COMMUNITY INVESTMENT IN TRANSIT

Updated Cost and Timeline Estimates – Bus Rapid Transit

Current Assumptions

- \$454.1 million to \$584.9 million for all corridors (YOE \$'s)
- Spent in FY19 to FY26
- Service opens in FY23 to FY27 depending on corridor
- Assumes 100% corridors with dedicated runningway



Financial Impact

CONVERT EVERYTHING TO FY 2020 DOLLARS TO UNDERSTAND SOURCE OF IMPACTS

Source of Impact	Lower Limit	Upper Limit
Changes to Project Characteristics or New Cost Estimates for Same Project Characteristics	+\$65,052,000	+\$182,561,000
Changes to Years of Expenditure	+\$45,340,000	+\$60,155,000
Total Impact from Both Sources	+\$110,392,000	+\$242,716,000

Impacts are compared to original assumptions



What Could Change the Assumptions?

- Decisions on BRT alignment and amount of dedicated runningway
- FTA requirements for project sponsors to show they can manage cost and schedule risk
- Other similarly large projects have underestimated the time and staffing commitment required to move a project through the process
- Cost assumptions for commuter rail may be reduced or increased by findings from Rail Traffic Controller (RTC) modeling that reveal different infrastructure improvements are needed or by changing assumed service frequencies



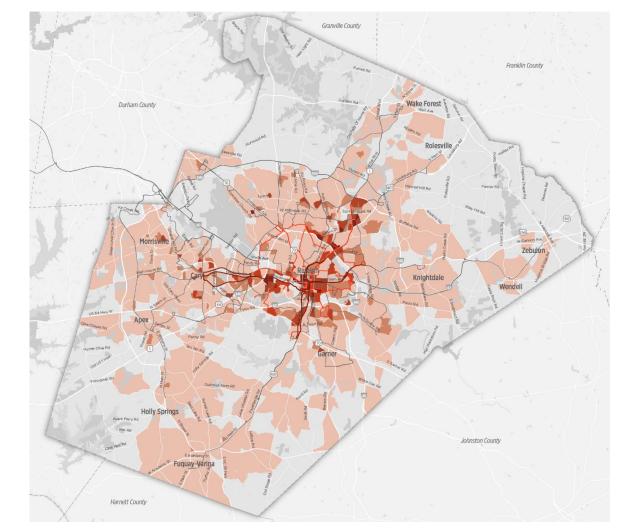
Market Assessment Approach

Purpose:

- Understand where there is demand for transit
- Evaluate the appropriateness of planned services
- Identify new and emerging opportunities for transit investment

Approach:

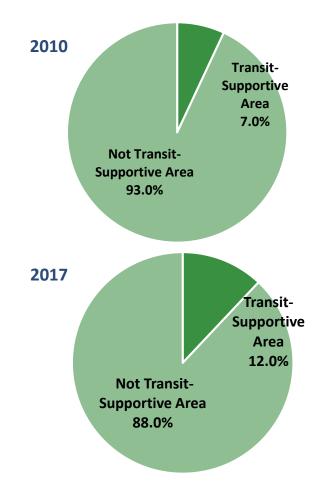
- Population density 2010, 2017, and 2035
- Population density adjusted by socioeconomic characteristics 2010, 2017, and 2035
- Employment density 2010, 2017, and 2035
- Composite density 2010, 2017, and 2035
- Major activity centers and points of interest
- Local travel patterns 2013 and 2035
- Congestion 2013 and 2035

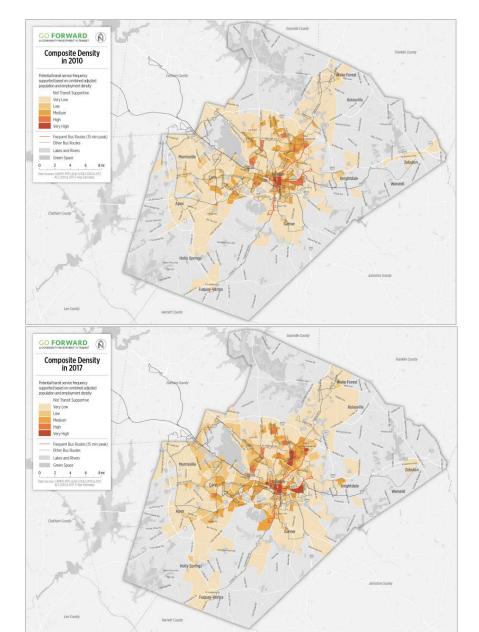


Market Assessment Approach

Composite Density

Proportion of county acreage supportive of fixed-route transit





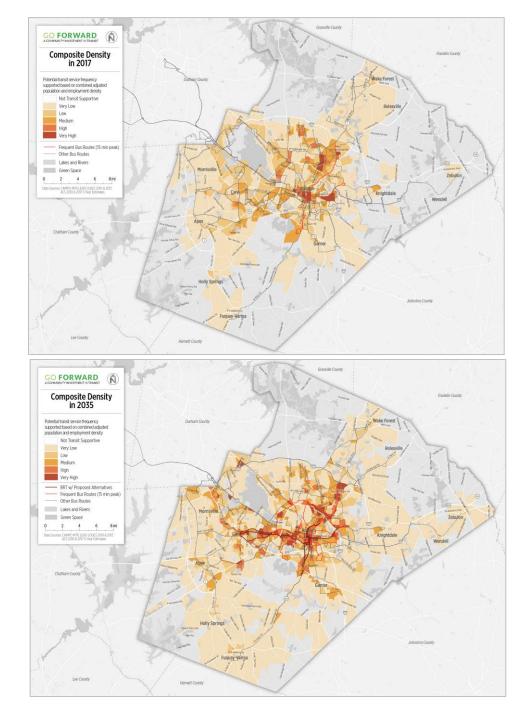
Composite Density

Combined population and employment:

- Downtown Raleigh and the area immediately surrounding downtown
- Northwestern Raleigh along Capital Boulevard
- Eastern Raleigh along New Bern Avenue
- Southern Raleigh along Wilmington Street
- Northern Raleigh along I-440 loop
- Between Raleigh and Cary along Western Boulevard
- Between Cary and Morrisville/RTP
- Parts of Apex, Garner, and far northern Raleigh

Areas that show increased density, not along MTP High Capacity Transit Corridors:

- Northern Raleigh and along I-440
- Along U.S. Route 1 between Raleigh and Apex
- Along I-40 from Raleigh to RTP
- North of RDU



5.7 Wake Transit Plan Update Status Report

Requested Action:

Receive as information.



5.8 S-Line Resolution of Support





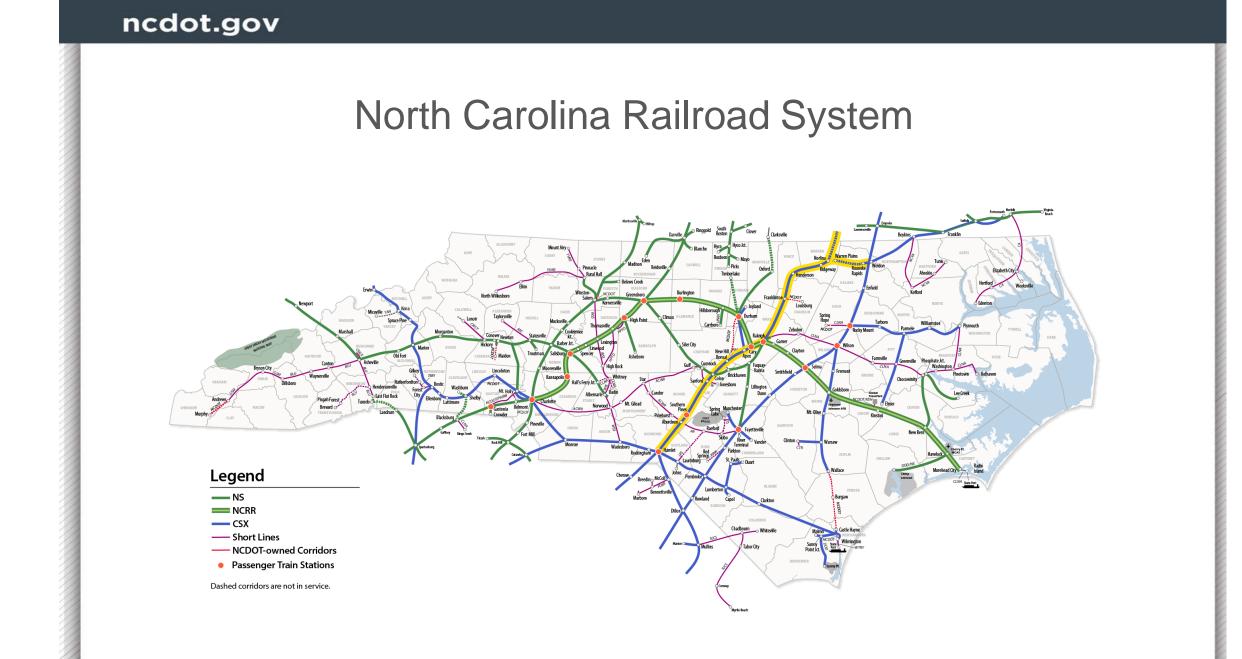


NORTH CAROLINA Department of Transportation



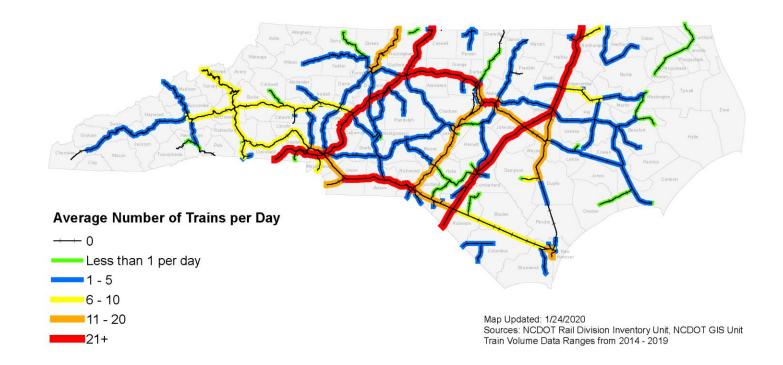
S-Line Opportunity

March 5, 2020



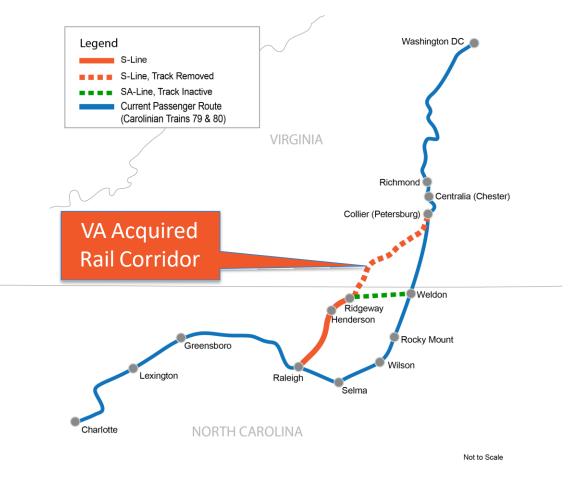
Class I Railroads "Rationalizing" Their Networks

- Focusing on core routes that carry large volumes of through freight trains
- Selling off stub ended and redundant rail corridors
- Lower-volume lines need to be preserved to serve existing and prospective industries and provide passenger rail expansion opportunities

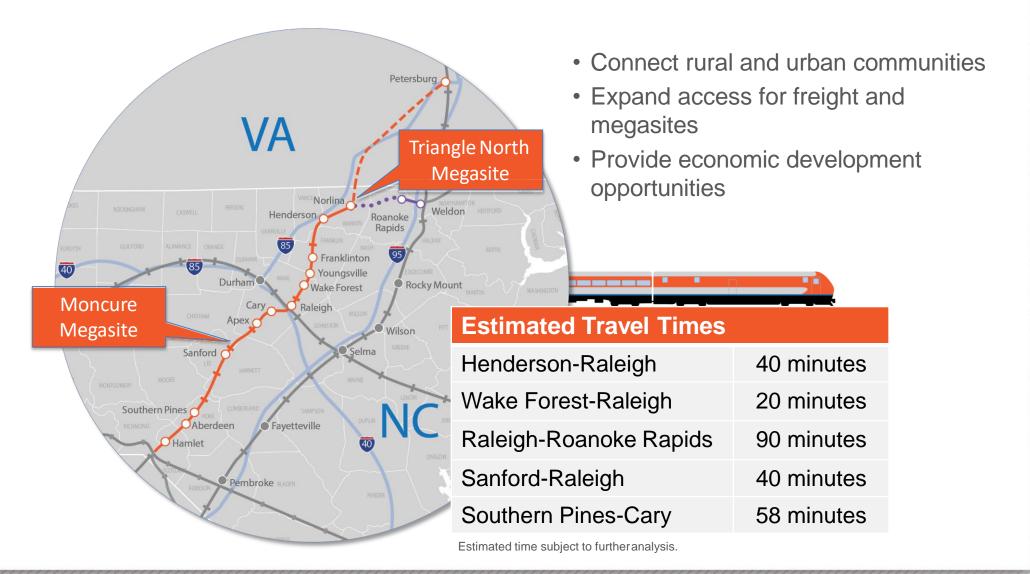


Virginia & CSX Landmark Rail Agreement

- State of VA purchased 350 miles of railroad right of way and 225 miles of track
- State ownership allows for:
 - Control of land and access
 - On-time service
 - Implementation of future technologies
 - Economic development along the corridors



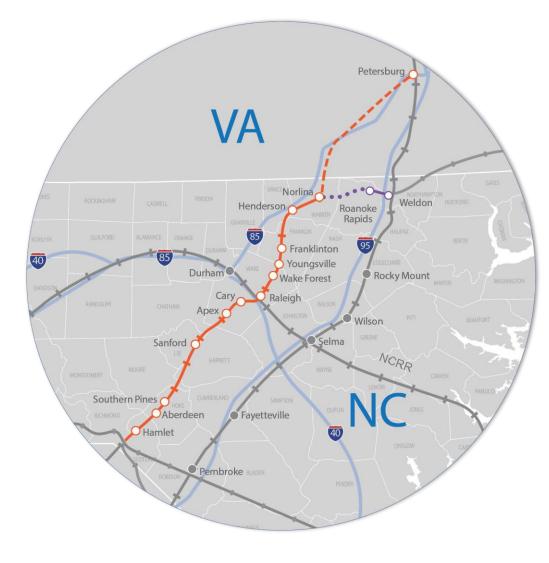
S-Line Acquisition Opportunity



Existing Conditions on the S-Line

Petersburg to Ridgeway

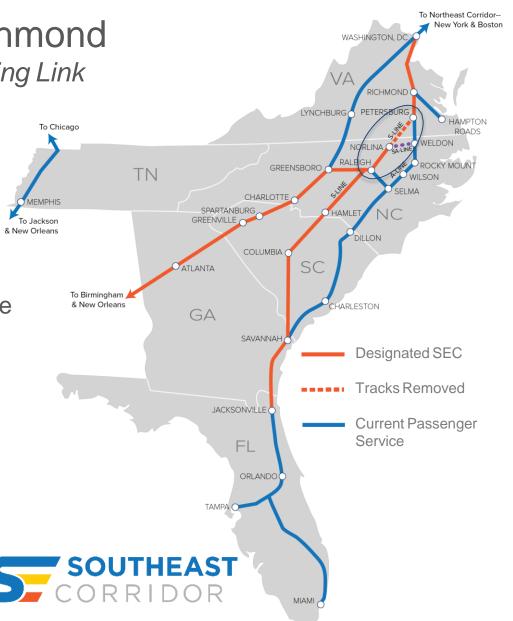
- Out of service, tracks removed
- Recently purchased by Virginia
- Ridgeway to Raleigh
 - 25 mph, local freight traffic only
- Raleigh to Hamlet
 - 60 mph, local freight + passenger service



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Raleigh to Richmond S-Line is the Missing Link

- Critical link in the federallydesignated Southeast Corridor
- Will expand and improve passenger and freight services
- Will reduce passenger trip times and improve on-time performance
- Will increase north-south freight capacity and rail network resiliency
- Will connect manufacturing and job centers to population centers



Preparing for CRISI 2020 – How You Can Help

CRISI (Consolidated Rail Infrastructure and Safety Improvements) 2020

- House and Senate updated language for the CRISI program – now allows for right of way acquisition of at least \$45M
- Opportunity for the State of North Carolina
 - ROW funding available: \$45M minimum
 - Federal/local match: 80/20 minimum
- Resolutions of Support will make the grant application stronger

Resolutions in support of the development of the S-Line and SA-Line have been passed by:

- Wake County Commission
- TARPO
- Town of Franklinton
- Town of Sanford
- Town of Wake Forest
- Lee County Commission
- Wake Forest Chamber of Commerce

CRISI Program Background

Individual project awards have ranged from:

- \$58K to \$10M (FY 17)
- \$157K to \$34M (FY 18)

NCDOT Awards:

- \$10M (FY 17)
- \$34M (FY 18)

Funding Preferences:

- Projects with < 50% federal share
- Projects with multiple non-federal sources

CRISI 2020 Release of Funding Opportunity:

• Late Spring / Early Summer



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Stakeholder Meetings

- Local, State, and Federal Elected Officials
- City and County Engineering, Planning, and Development Staff
- Transit Agencies, MPOs, RPOs, Advocacy Groups, Chambers of Commerce
- Economic Development Professionals, Developers, Financial Consultants, Rail Advisory Industry Leaders, Railroads



Next Steps

Building on Virginia's Success

- Encourage local government and others to pass resolutions of support
- Seek matching non federal funds for CRISI application
- Compete for CRISI 2020
- Partner with MPOs, RPOs, and communities to progress corridor development and planning
- Secure funding for incremental projects through STI and federal discretionary grants to improve rail infrastructure for new rail services



5.8 S-Line Resolution of Support

Requested Action:

Recommend approval of S-Line Resolution of Support to the Executive Board.



5.9 Safety Performance Measures and Targets FY20



5.9 Safety Performance Measures and Targets FY20

CAMPO is required by federal law through the Moving Ahead for Progress in the 21st Century Act (MAP-21) and the Fixing America's Surface Transportation (FAST) Act to adopt 18 specific transportation performance measures. These measures are divided into four categories: Safety, Pavement/Bridge, System Performance, and Transit Assets.

MPOs are required to establish performance targets for each of these measures on an annual basis by either:

- 1. Agreeing to plan and program projects so that they contribute towards the accomplishment of the State DOT targets or
- 2. Develop their own quantifiable targets for their metropolitan planning area by a methodology consistent with federal reporting requirements

MPOs are further required to establish their targets not later than 180 days after the State DOT establishes and reports targets.



PM1 – Safety

- 1. Number of fatalities
- 2. Fatality rate (per 100 million VMT)
- 3. Number of serious injuries
- 4. Serious injury rate (per 100 million VMT)
- 5. Number of non-motorized fatalities and serious injuries

NCDOT establishes and reports their targets in August. CAMPO must establish theirs by February.



PM1 – NCDOT Safety Targets

Safety Performance Measure	2014-2018	2016-2020
Total Fatalities	1,396.4	1,227.8
Rate of Fatalities	1.211	1.084
Total Serious Injuries	3,362.6	2,812.8
Rate Serious Injuries	2.886	2.462
Total Non-motorized Fatalities & Serious		
Injuries	494.6	426.6



5.9 Safety Performance Measures and Targets FY20

Requested Action:

Review safety performance targets and recommend the Executive Board agree to plan and program projects that contribute toward the accomplishment of the State's targets.



6. Informational Item: Budget

6.1 Member Shares – FY 2020

6.2 Operating Budget – FY 2020



7.1 Informational Item: Project Updates

- Commuter Corridors Study
- (SRTS) John Rex Endowment Grant Award Update
- Triangle Regional ITS
- R.E.D. Priority Bus Lane Study
- Fayetteville/Raleigh Passenger Rail Study
- Triangle TDM Program
- Triangle Bikeway Implementation Study
- Non-Motorized Volume Data Program
- Mobility Coordination Committee

- NCDOT Highway Project U-2719
- Wake Transit Vision Plan Update
- Greater Triangle Commuter Rail Alternatives Analysis
- Northeast Area Study Update
- Coordinated Human Services Public Transportation Plan Update



7.2 Informational Item: Public Engagement Updates



8. Informational Item: Staff Reports

- MPO Executive Director
- TCC Chair
- NCDOT Transportation Planning Division
- NCDOT Division 4
- NCDOT Division 5
- NCDOT Division 6
- NCDOT Rail Division
- NC Turnpike Authority
- NCDOT Bicycle & Pedestrian Planning Division



ADJOURN

Upcoming Events

Date	Event
March 18, 2020	Executive Board
4:00 p.m.	One City Plaza
March 23, 2020	MPO 101 Training (rescheduled)
8:30 a.m.	One City Plaza
March 26, 2020	Triangle Bike and Ped Workshop
8:00 a.m.	Raleigh Union Station/2 nd Floor
April 2, 2020	Technical Coordinating Committee
10:00 a.m.	One City Plaza
April 15, 2020	Executive Board One City Plaza

TRIANGLE
BIKE & PED
BIKE &

- save the date -

510 W MARTIN STREET, RALEIGH NC



TRIANGLE BIKE & PED WOTKShop

> MARCH 26, 2020 8AM - 12PM RALEIGH UNION STATION 2ND FLOOR MEZZANINE

- save the date -

510 W MARTIN STREET, RALEIGH NC

https://www.eventbrite.com/e/10th-annual-triangle-bike-ped-workshoptickets-90204037705?aff=erelexpmlt

