



NORTH CAROLINA
Department of Transportation

Lunch and Learn: STIP Funding

Leigh Wing

June 24, 2024

Connecting people, products and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina

Overview of the STIP Document



Bicycle &
Pedestrian



Rail



Public
Transportation



Aviation



Ferry



Highway

Federal Statutory Requirements

- Spans a minimum 4-year period, submitted for FHWA approval at least every 4 years
- Fiscally constrained by year
- Includes all capital and non-capital projects using Title 23 USC or Title 49 USC funds
- Includes metropolitan TIPs from MPOs and RPO input
- Public comment opportunity on STIP document

State Statutory Requirements

- Follows STI law (GS 136-189.10 and GS 136-189.11)
- Spans a 10-year period, adopted by the Board of Transportation
- Fiscally constrained in the first 5 years as well as the full 10 years
- STIP amendments must have a 30-day review period
 - Amendments run on the Item N handout for information only, with approval the following month on Item N Final

Reading the 2024-2033 STIP

2024-2033 STATE TRANSPORTATION IMPROVEMENT PROGRAM																
NOTES: AMOUNTS SHOWN ARE PROJECT ESTIMATE AMOUNTS REMAINING. ANY AMOUNTS PROGRAMMED FOR ACTIVITIES OTHER THAN RIGHT-OF-WAY, UTILITIES, OR CONSTRUCTION ARE INCLUDED UNDER "OTHER ACTIVITIES".																
BASIC PROJECT INFORMATION										FISCAL YEAR PROJECT PHASE SCHEDULED TO START						
COUNTY(S)	ROUTE/CITY	RESPONSIBLE AGENCY	DESCRIPTION	MODE	FUNDING PROGRAM	DIVISION(S)	MPOs/RPOs	PROJECT ID	STI CATEGORY FUNDED	FUNDING SOURCE (SEE FUNDING SOURCES TAB FOR MORE INFO)	RIGHT-OF-WAY PROJECTED SCHEDULE	TOTAL REMAINING FUNDS NEEDED FOR RIGHT-OF-WAY	UTILITIES PROJECTED SCHEDULE	TOTAL REMAINING FUNDS NEEDED FOR UTILITIES	CONSTRUCTION PROJECTED SCHEDULE	TOTAL REMAINING FUNDS NEEDED FOR CONSTRUCTION
ALAMANCE	BURLINGTON- ALAMANCE REGIONAL AIRPORT (BUY)	BURLINGTON-ALAMANCE REGIONAL AIRPORT (BUY)	OBTAIN NAVIGATION EASEMENTS AND CLEAR OBSTRUCTIONS IN THE RUNWAY 24 APPROACH.	AVIATION	STI (PRIORITIZATION)	7	BURLINGTON-GRAHAM MPO	AV-5737	DIVISION 7	L, T	2027	\$1,200,000				
ALAMANCE	BURLINGTON- ALAMANCE REGIONAL AIRPORT (BUY)	BURLINGTON-ALAMANCE REGIONAL AIRPORT (BUY)	CONSTRUCT 100 FT PAVED OVERRUN AND MAKE SAFETY ENHANCEMENTS.	AVIATION	STI (PRIORITIZATION)	7	BURLINGTON-GRAHAM MPO	AV-5851	DIVISION 7	T					2027	\$2,080,000
ALAMANCE	US 70 (NORTH CHURCH STREET)	BURLINGTON	SR 1716 (GRAHAM-HOPEDALE ROAD) TO SR 1719 (SELLARS MILL ROAD) IN BURLINGTON. CONSTRUCT SIDEWALK.	BIKE/PED	STI (PRIORITIZATION)	7	BURLINGTON-GRAHAM MPO	EB-5879	DIVISION 7	L, TA5200	2024	\$28,000			2024	\$86,000
ALAMANCE	US 70 (NORTH CHURCH STREET)	BURLINGTON	BEAUMONT AVENUE TO SR 1716 (GRAHAM-HOPEDALE ROAD) IN BURLINGTON. CONSTRUCT SIDEWALK.	BIKE/PED	STI (PRIORITIZATION)	7	BURLINGTON-GRAHAM MPO	EB-5885	DIVISION 7	L, TA5200					2023	\$120,000
ALAMANCE	LEE AVENUE	ELON	WEST LEBANON AVENUE TO SR 1454 (WEST HAGGARD AVENUE) IN ELON. CONSTRUCT SIDEWALK.	BIKE/PED	STI (PRIORITIZATION)	7	BURLINGTON-GRAHAM MPO	EB-5988	DIVISION 7	L, TA5200	2025	\$5,000			2026	\$272,000
ALAMANCE	SR 1212 (POND ROAD)	NCDOT	REPLACE BRIDGE 000170 OVER PRONG OF ALAMANCE CREEK IN ALAMANCE.	HIGHWAY	BRIDGES	7	BURLINGTON-GRAHAM MPO	B-5347	HIGHWAY FUND							
ALAMANCE	NC 87	NCDOT	NC 87 AT I-40 EASTBOUND ON-RAMP. INSTALL PEDESTRIAN ACCOMMODATIONS.	HIGHWAY	SAFETY	7	BURLINGTON-GRAHAM MPO	HS-2007F	REGION D	HSIP					2023	\$87,000
ALAMANCE	I-40 / I-85	NCDOT	EAST OF GUILFORD COUNTY LINE TO EAST OF NC 49. PAVEMENT REHABILITATION.	HIGHWAY	INTERSTATE MAINTENANCE	7	BURLINGTON-GRAHAM MPO	I-5309	STATEWIDE MOBILITY							
ALAMANCE	I-40 / I-85	NCDOT	SR 1007 (MEBANE-OAKS ROAD) IN MEBANE. INTERCHANGE IMPROVEMENTS.	HIGHWAY	STI (PRIORITIZATION)	7	BURLINGTON-GRAHAM MPO	I-5711	STATEWIDE MOBILITY	NHP, S(M)					2020	\$13,133,000
ALAMANCE	I-40 / I-85	NCDOT	0.2 MILE EAST OF NC 49 TO 0.2 MILE EAST OF NC 54 IN GRAHAM. PAVEMENT REHABILITATION.	HIGHWAY	INTERSTATE MAINTENANCE	7	BURLINGTON-GRAHAM MPO	I-5836	STATEWIDE MOBILITY							
ALAMANCE	I-40 / I-85	NCDOT	SR 1158 (HUFFMAN MILL ROAD) INTERCHANGE. CONSTRUCT ADDITIONAL LEFT TURN LANE ON I-40 WESTBOUND RAMP AND IMPROVE OPERATIONS AT SR 1308 (GARDEN ROAD)	HIGHWAY	STI (PRIORITIZATION)	7	BURLINGTON-GRAHAM MPO	I-6009	STATEWIDE MOBILITY	T	FUNDED FOR PRELIMINARY ENGINEERING ONLY	\$700,000	FUNDED FOR PRELIMINARY ENGINEERING ONLY	\$100,000	FUNDED FOR PRELIMINARY ENGINEERING ONLY	\$1,000,000
ALAMANCE	I-40 / I-85	NCDOT	SR 1981 (TROLLINGWOOD-HAWFIELDS ROAD) IN MEBANE. UPGRADE INTERCHANGE.	HIGHWAY	STI (PRIORITIZATION)	7	BURLINGTON-GRAHAM MPO	I-6059	DIVISION 7	NHP	FUNDED FOR PRELIMINARY ENGINEERING ONLY	\$600,000	FUNDED FOR PRELIMINARY ENGINEERING ONLY	\$200,000	FUNDED FOR PRELIMINARY ENGINEERING ONLY	\$7,100,000
ALAMANCE	NC 119	NCDOT	NC 119 RELOCATION, I-85 TO SOUTH OF SR 1918 (MRS. WHITE ROAD) IN MEBANE. FOUR-TO-SIX-LANE FACILITY ON NEW LOCATION.	HIGHWAY	STI (PRIORITIZATION)	7	BURLINGTON-GRAHAM MPO	U-3109								

Reading the 2024-2033 STIP – 2nd Tab (Cashflows)

2024-2033 STATE TRANSPORTATION IMPROVEMENT PROGRAM As amended by the Board of Transportation and approved by FHWA (January 2024)													2024-2033 STIP WINDOW											
PROJECT ID	MODE	FUNDING PROGRAM	ROUTE/CITY	DESCRIPTION	COUNTY(S)	DIVISION(S)	MPOs/RPOs	COMMENT	CATEGORY FUNDED	FUND SOURCE	ACTIVITY	TOTAL FUNDED (MAY INCLUDE PREVIOUSLY AUTHORIZED FUNDS)	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	AFTER 2033	
R-3833C	Highway	STI (Prioritization)	SR 1100 (BRAWLEY SCHOOL ROAD)	I-77 TO US 21	IREDELL	12	Charlotte Regional TPO	RIGHT-OF-WAY IN PROGRESS. BUILD NC BOND FUNDING: \$14.7M FOR CONSTRUCTION, PAYBACK FY 2024-2038 (FY 2024 / YR 6 SALE).	Division 12	T	RIGHT-OF-WAY	5,210,000	160,000											
R-3833C	Highway	STI (Prioritization)	SR 1100 (BRAWLEY SCHOOL ROAD)	I-77 TO US 21	IREDELL	12	Charlotte Regional TPO	RIGHT-OF-WAY IN PROGRESS. BUILD NC BOND FUNDING: \$14.7M FOR CONSTRUCTION, PAYBACK FY 2024-2038 (FY 2024 / YR 6 SALE).	Division 12	T	BUILD NC CON	18,915,000	1,261,000	1,261,000	1,261,000	1,261,000	1,261,000	1,261,000	1,261,000	1,261,000	1,261,000	1,261,000	1,261,000	6,305,000
R-3833C	Highway	STI (Prioritization)	SR 1100 (BRAWLEY SCHOOL ROAD)	I-77 TO US 21	IREDELL	12	Charlotte Regional TPO	RIGHT-OF-WAY IN PROGRESS. BUILD NC BOND FUNDING: \$14.7M FOR CONSTRUCTION, PAYBACK FY 2024-2038 (FY 2024 / YR 6 SALE).	Division 12	T	CONSTRUCTION	14,900,000	0	3,652,000	8,584,000	2,664,000								
R-3833C	Highway	STI (Prioritization)	SR 1100 (BRAWLEY SCHOOL ROAD)	I-77 TO US 21	IREDELL	12	Charlotte Regional TPO	RIGHT-OF-WAY IN PROGRESS. BUILD NC BOND FUNDING: \$14.7M FOR CONSTRUCTION, PAYBACK FY 2024-2038 (FY 2024 / YR 6 SALE).	Division 12	L	CONSTRUCTION	890,000	890,000											

If your project is in the “Scheduled for Delivery” window (aka Committed), then:

- The cashflows for each phase and fund source will appear as a row
- Actual dollars are shown, not in the \$1,000s

If your project is “Funded for PE Only” (aka Non-Committed), then:

- There will be row for each phase and fund source but no cashflows will appear

STIP-ID / Funding Programs

Highway

- HP: Highway STI (Prioritization)
- HI: Highway Interstate Maintenance
- HS: Highway Safety
- HB: Highway Bridge
- HM: Highway Municipal Bridge
- HL: Highway Locally Selected
- HE: Highway Economic Development
- HA: Highway Appalachian Development Hwy System
- HF: Highway Federal Lands Access Program
- HV: Highway National Electric Vehicle Infrastructure
- HO: Highway Other
- HN: Highway – NCDOT Selected (other selection process)

Transit

- TP: Transit STI (Prioritization)
- TE: Transit Economic Development
- TL: Transit Locally Selected
- TM: Transit Operations and Maintenance
- TG: Transit Routine Capital and Preventative Maintenance
- TC: Transit Capital (Non- STI)
- TU: Transit Planning
- TO: Transit Miscellaneous/ Other
- TN: Transit – NCDOT Selected (other selection process)

STIP-ID / Funding Programs

Aviation

- AP: Aviation STI (Prioritization)
- AE: Aviation Economic Development
- AL: Aviation Locally Selected
- AO: Aviation Other

Ferry

- FP: Ferry STI (Prioritization)
- FL: Ferry Locally Selected
- FF: Ferry Federal Lands Access Program
- FO: Ferry Other

Bike & Ped

- BP: Bike & Ped STI (Prioritization)
- BL: Bike & Ped Locally Selected
- BF: Bike & Ped Federal Lands Access Program
- BO: Bike & Ped Other
- BN: Bike & Ped – NCDOT Selected (other selection process)

Rail

- RP: Rail STI (Prioritization)
- RX: Rail-Highway Grade Crossing Improvement
- RL: Rail Locally Selected
- RO: Rail Other

Fund Sources

<p>Federal Subject to STI</p>	<ul style="list-style-type: none"> • NHPP – National Hwy Performance Program • STBG (including all suballocated funds such as STBG-DA) – Surface Transportation Block Grant Program • HSIP – Highway Safety Improvement Program • NHFP – National Highway Freight Program • TAP (Includes all suballocated funds such as TAP-DA) – Transportation Alternatives Program • RR – Railway-Highway Crossing Improvement Program • PROTECT – Resiliency Program
<p>Federal NOT Subject to STI (Exempt)</p>	<ul style="list-style-type: none"> • ADHS – Appalachian Development Highway System • CMAQ – Congestion Mitigation • CRP (includes CRP-DA) – Carbon Reduction Program • FLAP – Federal Lands Access Program • HP – Federal Earmarks • DP – Federal Discretionary Grants
<p>State Subject to STI</p>	<ul style="list-style-type: none"> • T – Highway Trust Funds • T(DA) – Highway Trust Funds (Fund Swap for DA)
<p>State NOT Subject to STI</p>	<ul style="list-style-type: none"> • HF(M), HF, and HFB – Highway Fund • S – State (includes legislative appropriations)
<p>Other NOT Subject to STI</p>	<ul style="list-style-type: none"> • L(M) or L – Local • O – Other



STATE TRANSPORTATION IMPROVEMENT PROGRAM (STIP)



2024-2033

2023

June 2023

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

— **April 2022**
Draft 2024 - 2033 STIP
released

— **July 2022**
SL 2022-74; Additional
revenue appropriated

— **August 2022**
Revised Draft 2024-
2033 STIP released
Includes new revenues

— **June 2023**
Final 2024-2033 STIP to
be adopted by BOT

— **Sept 2023**
Final 2024-2027 STIP
Approved by FHWA

Projects in the STIP

Projects selected through Prioritization (\$28 B)

Statewide Mobility	Regional Impact	Division Needs
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Alternate Criteria (\$6 B)

Funded: STI Category based on route eligibility	
Interstate Maintenance	Safety
Bridge Replacement	Bridge Rehabilitation
Funded: Division Needs Category	
MPO Direct Attributable (DA)	Transportation Alternatives
National Electric Vehicle Infrastructure (NEVI)	Highway-Rail Crossing
Economic Development	

Exempt (\$200 M)

Funded: outside of Statewide Mobility, Regional Impact, and Division Needs categories	
Appalachian Development Highway System (ADHS)	Congestion Mitigation and Air Quality (CMAQ)
CARBON Reduction Program	Bonus Allocation

STIP Funding Distribution (based on STI law)

Statewide Mobility



Types of Projects

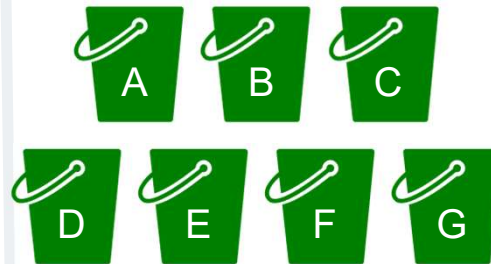
- Interstate Maintenance
- Bridge
- Highway Safety (HSIP)

Committed Projects
Projects selected in Latest Cycle

Regional Impact



% of State Population



Types of Projects

- Bridge
- Highway Safety (HSIP)

Committed Projects
Projects selected in Latest Cycle

Division Needs



Equal Share



Types of Projects

- Bridge
- Highway Safety (HSIP)
- MPO Selected (DA)
- Transportation Alternatives
- Highway-Rail Crossing
- Economic Development

Committed Projects
Projects selected in Latest Cycle

Projects Selected via Prioritization

Alternate Criteria Funding (Bridge, IM, and Safety)

Bridges

- Managed by the Chief Engineer's Office (Director of Highway Operations) and Structures Management Unit
- Target is \$150M per year (irrespective of STI category – can be SW, REG, or DIV)
 - Min. \$55M for off-system bridges (all Division Needs)

Interstate Maintenance

- Managed by the Chief Engineer's Office (Director of Highway Operations)
- Target is \$150M per year (all Statewide Mobility)
- New process in development for project selection

Safety

- Managed by Transportation Mobility and Safety Division – Projects selected on a quarterly basis
- \$80M per year (irrespective of STI category – can be SW, REG, or DIV)
- Projects must score high enough under benefit-cost formula to receive funding

Prioritization Overview



Bicycle &
Pedestrian



Rail



Public
Transportation



Aviation



Ferry



Highway

STI Law

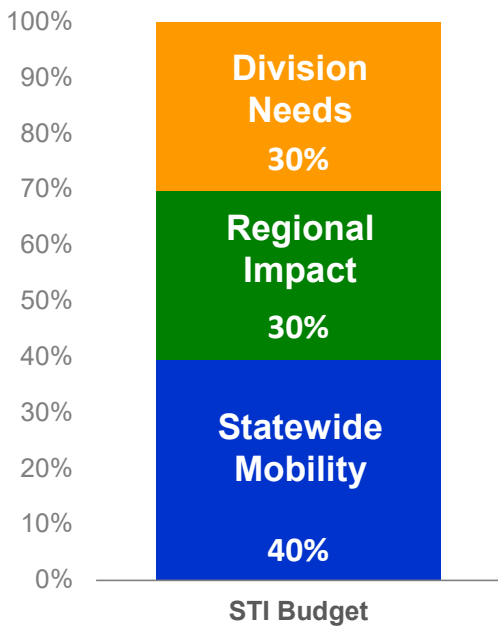
STI Law (§ 136-189.11) defines:

- Funding Categories and Percentages
- Project Eligibility
- Highway Scoring Criteria Names
- Funding Constraints

Recommendations developed by Workgroup and NCDOT BOT adopts:

- Scoring Process (timeframe, submittals, carryovers, etc.)
- Highway Measures and Weights
- Non-Highway Criteria, Measures, and Weights
- Normalization (funding allocation between modes)
- Local Input Points

STI Categories



Mode	Statewide Mobility	Regional Impact	Division Needs
Highway	<ul style="list-style-type: none"> Interstates (existing & future) National Highway System routes (as of 2013) STRAHNET¹ Designated Toll Facilities 	Other US and NC Routes	<ul style="list-style-type: none"> All Secondary Roads (SR) Federal-Aid Eligible Local Roads
Aviation	Large Commercial Service Airports <i>cap - \$500K / project / year</i>	Other Commercial Service Airports not in Statewide <i>cap - \$300K / project / year</i>	All Airports without Commercial Service (General Aviation) <i>cap - \$18.5M annual program</i>
Bicycle-Pedestrian	N/A	N/A	All projects (\$0 state highway trust funds)
Public Transportation	N/A	Service spanning two or more counties (10% cap)	All other service, including terminals and stations
Ferry	N/A	Vessel or infrastructure expansion	Replacement vessels
Rail	Freight Service on Class-I Railroad Corridors	Rail service spanning two or more counties not in Statewide	All other service, including terminals and stations (no short lines)

¹ STRAHNET – Strategic Highway Network, system of roads deemed necessary for emergency mobilization and peacetime movement of personnel and equipment to support U.S. military operations

STI Legislation Funding Caps and Restrictions Impacting Programming

Corridor Cap:
Statewide
Mobility



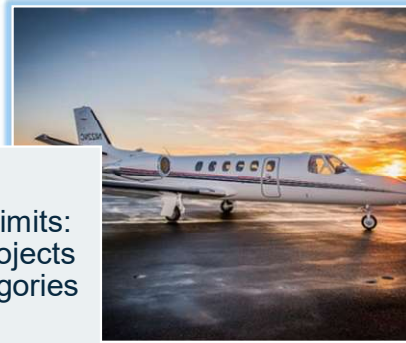
Funding limits:
Light rail and
commuter rail
projects



Funding limits:
Regional Impact
transit projects



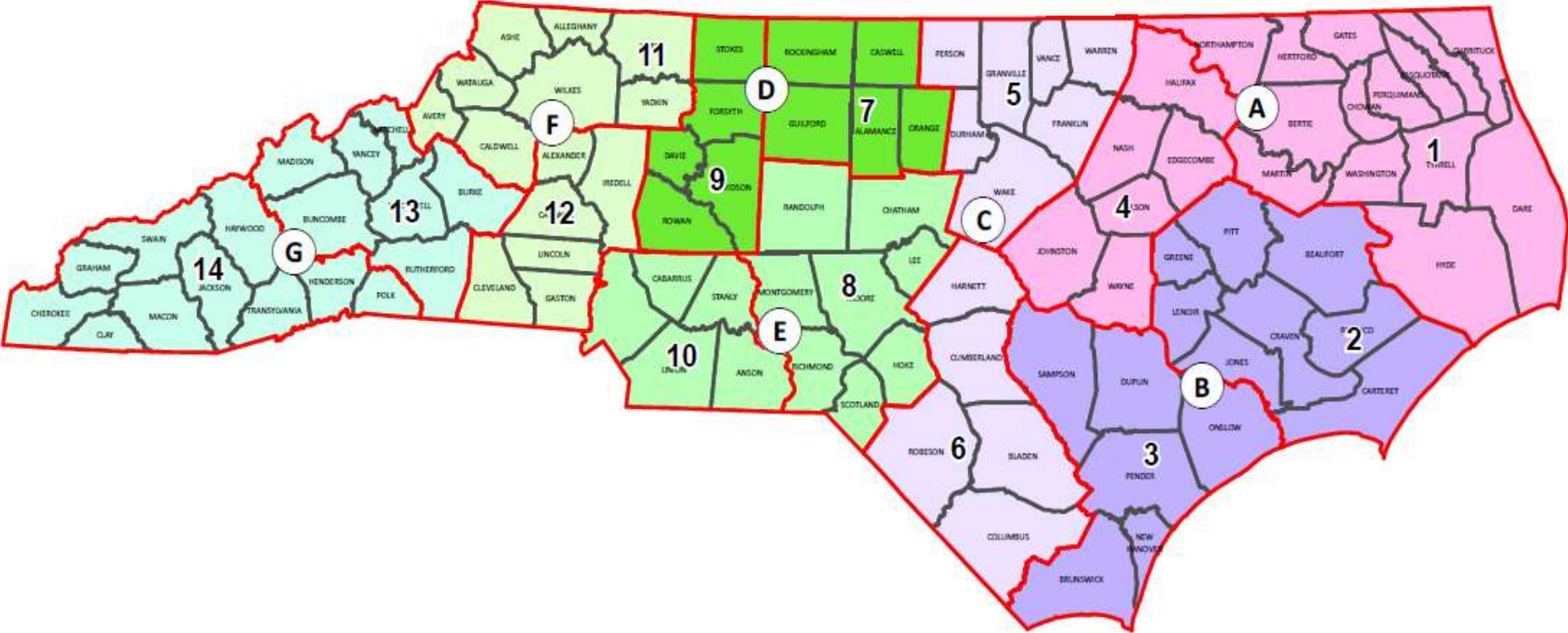
Funding limits:
Airport projects
in all categories



Prohibition:
State funds as
the match
federal-aid for
independent
bike/ped projects



Regions and Divisions



Scoring Process

Projects Submitted by MPOs, RPOs, & Divisions



1. Reviewed for category eligibility
2. Data screened
3. Quantitative scores calculated

Statewide Mobility
40% of Funds

1. Projects programmed
2. Projects not programmed cascaded to next category

Regional Impact
30% of Funds

1. Local input points assigned
2. Total scores calculated
3. Projects programmed
4. Projects not programmed cascaded to next category

Division Needs
30% of Funds

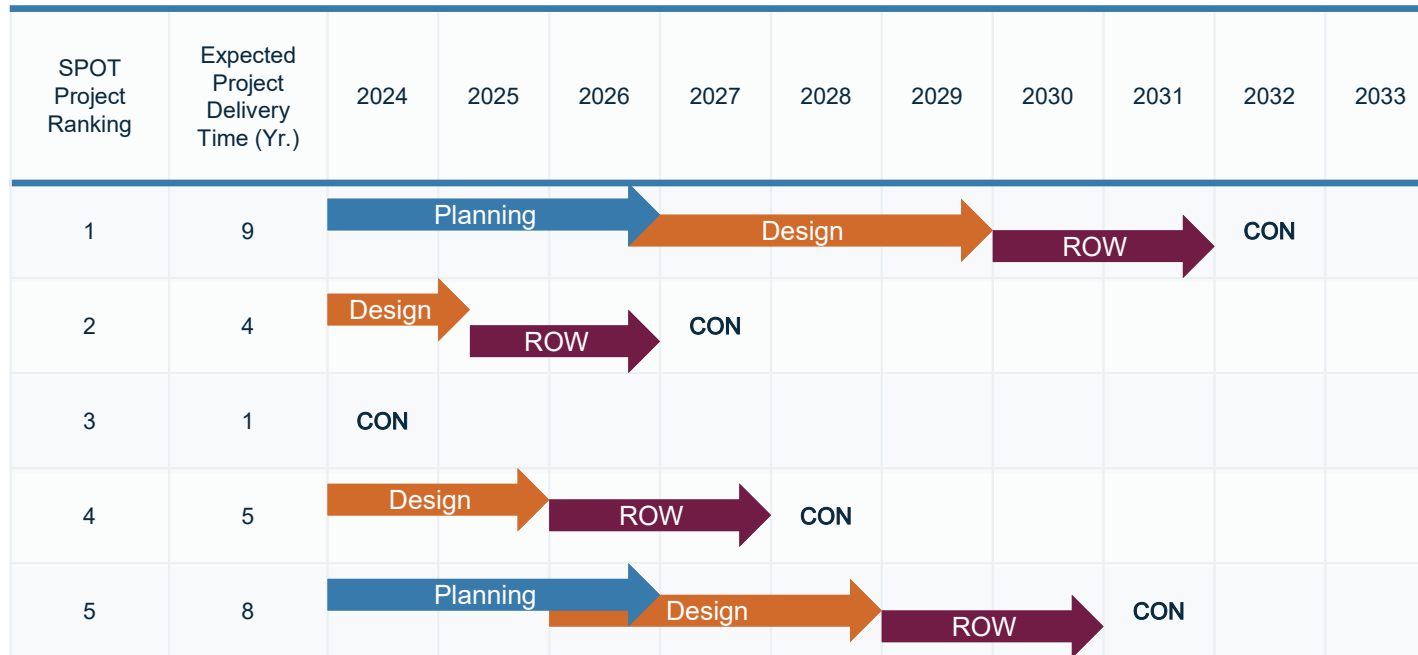
1. Local input points assigned
2. Total scores calculated
3. Projects programmed

Statewide Mobility Score =
100% Quantitative

Regional Impact Score =
70% Quantitative +
30% Local Input
















Division Needs Score =
50% Quantitative +
50% Local Input

Project Programming vs. Scheduling






- Regardless of priority, projects cannot be programmed for Right-of-Way (ROW) or Construction (CON) prior to completion of planning/environmental and design work
- A lower-scoring project that can be delivered soon may get scheduled prior to a higher-ranking project that still needs extensive work

Annual STIP Tests

Category	2024	2025	2026	2027	2028	Total
Statewide						Budget Target
Regional						Budget Target
Division						Budget Target

Annual Budget Annual Budget Annual Budget Annual Budget Annual Budget

Test	Key	Level	Testing	Threshold
Annual Budget Test		Federal	Annual amount programmed vs annual budget	Per FHWA guidance
Limitation on Variance – 5 year		State	5-year programmed amounts vs budget targets set by law Per statewide, regional and division categories	+/- 15 %
Limitation on Variance – 10 year		State	10-year programmed amounts vs budget targets set by law Per statewide, regional and division categories	+/- 10 %

Questions?
