



















Bicycle and Pedestrian Analysis Anson County CTP Update

Alex Rotenberry, AICP, NCDOT IMD Western Piedmont Regional Planner

August 18, 2022

Topics

- BRIEF Integrated Mobility Division Introduction
- Goals of Bike and Ped Planning
- Complete Streets Policy Highlights
- How a Plan Becomes a Project
- Potential Funding Sources
- Bike and Ped Analysis Elements
- Analysis of Crash Data

IMD GOALS



Increase Access

Eliminate transportation barriers and ensure all North Carolinians have equal access to opportunities and services.



Enhance Quality of Life

Offer a convenient network of multimodal choices to enhance the quality of life for North Carolinians.



Ensure Safety

Ensure all road users can travel safely by building complete streets and proactively correcting areas susceptible to crashes involving vulnerable road users.







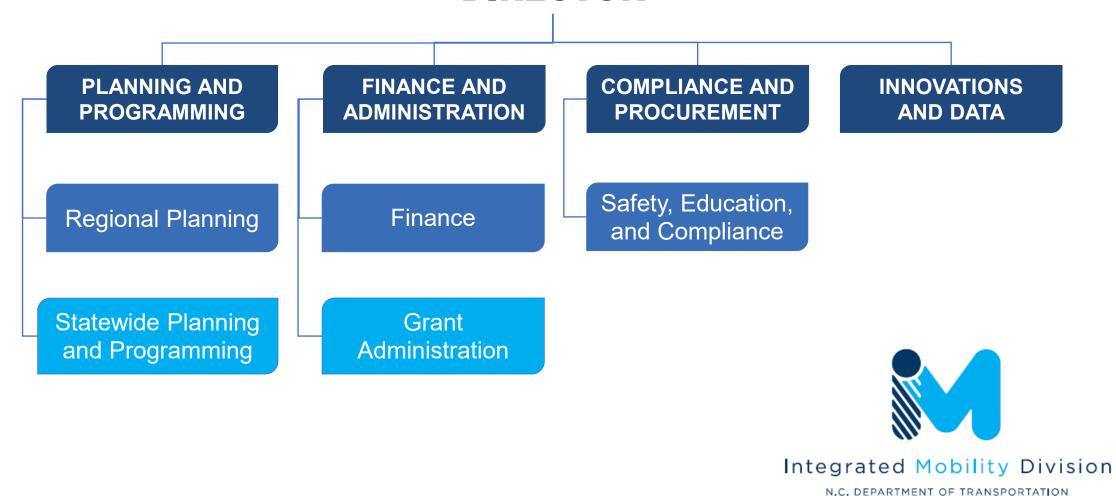


MISSION

Provide leadership for safe, affordable, and innovative multimodal transportation throughout North Carolina



DIRECTOR

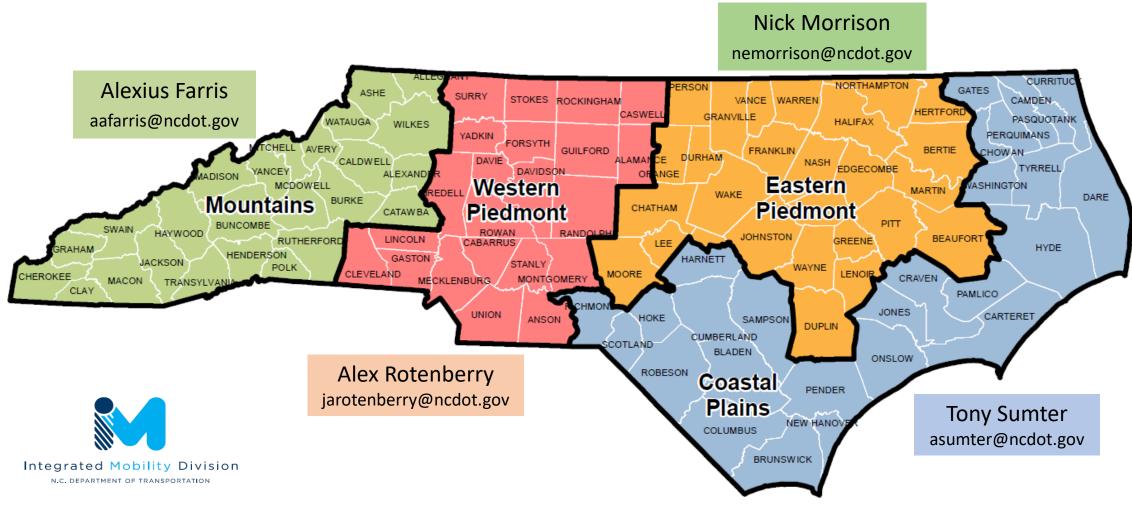


Regional Planning

Manager – Bryan Lopez

- Engagement with Transportation Planning Division and CTP's
- Engagement with MPO's
- Project Administration: Multimodal Planning Grants
- Technical assistance with facilities or implementation process
- General coordination

IMD Regional Planner Contacts



Goals of Bike and Ped Planning

- Safety
- Connectivity
- Access
- Mobility
- Triple Bottom Line











Goals of Bike and Ped Planning

Safety

Reducing traffic deaths, Vision Zero

Connectivity

Connectivity of the infrastructure system (Bike and Ped Network)

Research indicates better connectivity increases bike-ped traffic

Access

Access to destinations (specific service or activity), typically within a travel shed

Often measured by accessible destinations within a given timeframe

E.g., access to jobs within a 30min commute

Mobility

Ability to move from place to place and engage in society, daily life

Impacted by:

- Physical ability / Disability
- Options within the system
- Connectivity of the network
- Affordability / Vehicle ownership, etc.

Triple Bottom Line

Equity, Environment, Economy







Complete Street Policy

Complete Streets Policy adopted in 2019

Requires NCDOT to consider and incorporate multimodal facilities as part of all projects (with some exceptions)

NCDOT pays full cost of multimodal facilities if (1.) facilities are identified in a qualifying transportation plan, and (2.) need is identified during complete street evaluation process

Qualifying transportation plan is primarily a CTP, or other locally adopted plans that meet transportation needs and design standards.

2019 policy references AASHTO, NACTO, and FHWA for design guidance in addition to NCDOT Roadway Design Manual.

Complete Streets Project Sheet is created as part of PDN to document multimodal evaluation

NCDOT created Complete Street Core Technical Team to further develop policy and guidance

Access to Complete Streets Website

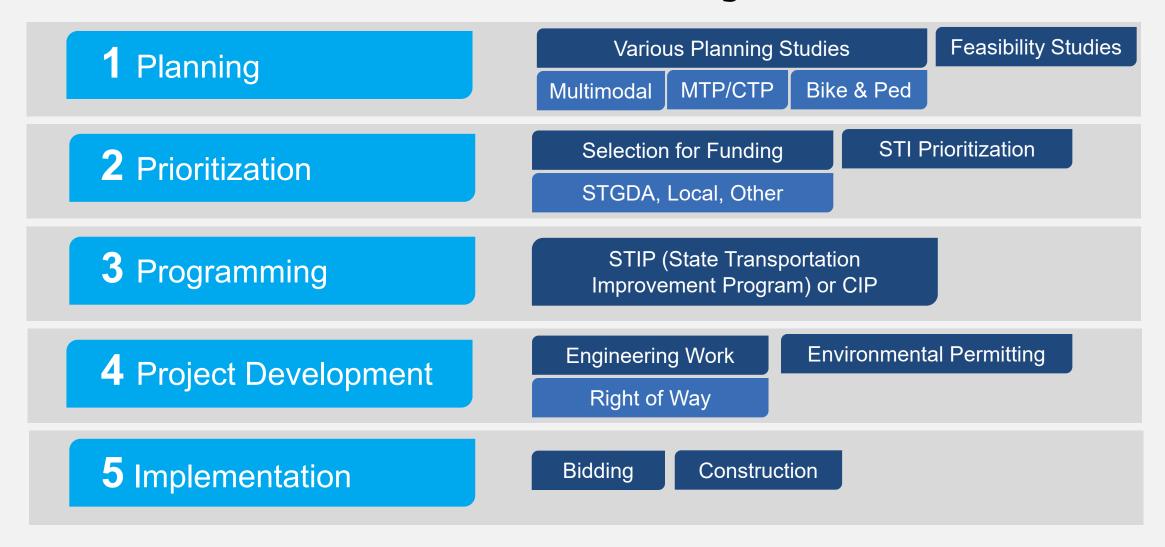
Complete Streets (ncdot.gov)







How a Plan Becomes a Project



Funding Framework

Federal Funding Source

Directed through State agencies to Local Governments

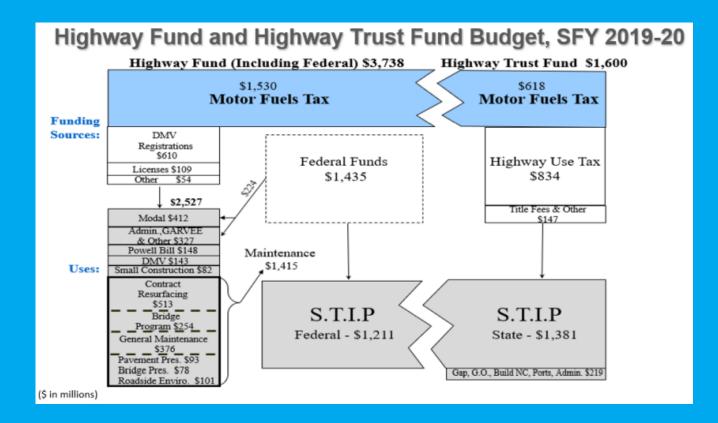
Requires a Local match (with some exceptions)

State Funding Source

Funding through STI

Allocated through a Strategic Mobility Formula

Distributed under a construction schedule (STIP)









State & Federal Funding Programs

- NCDOT State Transportation Improvement Program
- NCDOT Small Construction Funds / High Impact
 Low Cost Funds / Economic Development Funds
 / Statewide Contingency Funds
- NC Parks & Recreation Trust Fund (PARTF)
- NCDOT Spot Safety Program
- NCDOT Highway Maintenance Improvement Program (HMIP)
- NCDOT Highway Hazard Elimination Program
- USDA
- Community Development Block Grant (CDBG) / NC Dept of Commerce Programs: Main Street Solutions Funds / Downtown Revitalization Funds

- / Rural Infrastructure Grant Program / Appalachian Regional Commission Funds
- Congestion Mitigation / Air Quality Program (CMAQ)
- Surface Transportation Block Program (STBG)
- Safe Routes to School
- Transportation Alternatives (TA)
- Highway Safety Improvement Program (HSIP)
- Recreational Trails Program (RTP)

Local Funding Strategies

- General Fund
- Capital Improvement Program
- Capital Reserve Fund
- Powell Bill Program
- Special Tax Assessments / Tax Local Foundation Private / Increment Financing / Municipal Service District
- In-Lieu of Fees
- Impact Fees

- Municipal Vehicle Tax
- Developer Funded Facilities
- Bond Initiatives
- County Tourism Grant
- Non-Profit Funding
- NCDOT Maintenance

Bike and Ped Analysis Elements

Review of existing plans

Analysis of Origins / Destinations

Crash/Safety Data Analysis

Equity Analysis

Demand and Future Demand Analysis

Tools

Gap Analysis

Bicycle Level of Service

Bike & Ped Demand Estimation Map

Access to Transit

Community Input

NCDOT Bicyclist and Pedestrian Crash Map (arcgis.com)

Safety Data unit within NCDOT

Provides full detail analysis upon request.

Analysis of Crash Data













Thank you!

Alex Rotenberry, AICP Western Piedmont Regional Planner jarotenberry@ncdot.gov