



NORTH CAROLINA'S DRIVERS & OPPORTUNITIES

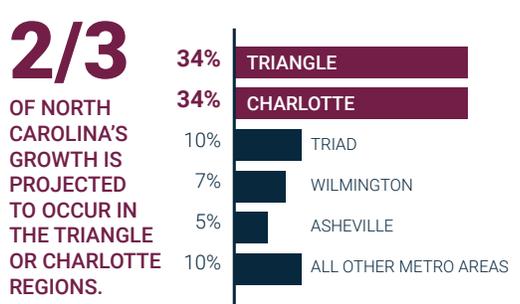
EXPLORING EMERGING TRENDS SHAPING NORTH CAROLINA'S TRANSPORTATION SYSTEM



The Drivers and Opportunities phase of the NC Moves 2050 plan looks at possible changes and uncertainties that could affect North Carolina's future. Different drivers and opportunities, referred to as trends, will affect North Carolina's growth and development. Understanding the potential impacts of these trends helps inform what the future may look like which helps with developing strategies and recommendations.

DEMOGRAPHIC CHANGE

Demographic change shows the current and future workforce is closely tied to the state's future economy. As urban areas grow larger and become more diverse, the rural population is growing older.



76 COUNTIES HAVE MORE PEOPLE OVER THE AGE OF 60 THAN UNDER 18.

SMALLER HOUSEHOLD SIZES & AFFORDABILITY
CONCERNS MAY CREATE DEMAND FOR SMALLER, MORE CLOSELY SPACED HOMES WHICH WOULD BE MORE EFFICIENT FOR TRANSIT, BIKE AND WALK TRIPS.



CREATE MORE JOBS
IN GROWING INDUSTRIES, TRADE AND KNOWLEDGE-BASED SERVICES. MANUFACTURING IS AN ESSENTIAL PART OF THE ECONOMY.



NEW TECHNOLOGIES

New technologies such as self-driving vehicles, electric vehicles and mobile apps like Uber and Lyft may transform how transportation providers like NCDOT perform. Making choices about when or where to use new technology can be overwhelming given the fast pace of change.

AUTOMATED VEHICLE | AV AND CONNECTED VEHICLE TECHNOLOGIES WILL LIKELY CHANGE HOW WE TRAVEL AND HOW GOODS MOVE.



SHORT DISTANCE TRAVEL | MORE TRAVELERS WILL RENT OR SHARE CARS, DRIVE ELECTRIC VEHICLES OR USE ELECTRIC SCOOTERS OR BICYCLES TO TRAVEL SHORT DISTANCES.



MOBILITY-AS-A-SERVICE (MAAS) | NEW TRANSPORTATION OPTIONS HAVE CHANGED THE CONVERSATION AWAY FROM A SINGLE WAY OF TRAVELING. MAAS MEANS YOU CAN USE DIFFERENT TRANSPORTATION OPTIONS FOR EACH TRIP BASED ON HOW MUCH IT COSTS, HOW LONG IT TAKES AND PERSONAL PREFERENCE.



The findings from research and interviews indicate that possible future trends will not occur evenly nor at the same rate across North Carolina. Changes (such as transportation technologies) may occur faster or slower in different areas, creating new opportunities and challenges in various regions of the state. For more information about the research conducted and the findings, visit ncmoves.gov to view the Drivers and Opportunities fact sheets.



ENVIRONMENTAL HAZARDS, EXTREME WEATHER & RESILIENCY

ENVIRONMENTAL HAZARDS | Some hazards are projected to occur with greater likelihood over the coming century.

- Examples include: hurricanes, floods, winter storms, heat events and tornadoes.
- These events will create risks to roads and bridges across the state.

RESILIENCY | Resiliency keeps North Carolina moving, even under these extreme events. This is key for economic recovery and growth.



FLOODS

Can cause landslides, mudslides, blocked roadways and damaged bridges.



WINTER STORMS

Can lead to dangerous conditions with high wind that affect visibility. Significant snowfall can bring travel to a standstill.



WILDFIRES

Rain after wildfires can produce a build up of sediment that impacts bridges and roads.



DAM FAILURES, EARTHQUAKES, TORNADOES

Cause catastrophic damage to bridges and roads and leave a lot of debris that can block travel.



COASTAL FLOODING*

Can block roadways, wear away road beds, and weaken and damage bridges. **Including storm surge and sea level rise.*



DEVELOPING STRONG PARTNERSHIPS

NCDOT partners with many organizations to inform policy and project-level decision making. As the process of delivering transportation becomes more complex, NCDOT will need to develop and strengthen partnerships to continue to produce effective solutions.

LOCAL AND REGIONAL PARTNERSHIPS FOR PROJECT INVESTMENTS ARE IMPORTANT AS TRADITIONAL FUNDING SOURCES DECLINE.



FUEL USAGE IN NC IS PROJECTED TO DECLINE IN 2020,

CAUSING A DECREASE IN GAS SALES TAX REVENUES.

THE NC TRAVEL & TOURISM BOARD PARTNERS WITH NCDOT TO SUPPORT TOURISM EFFORTS.

\$23 BILLION
ANNUAL VISITOR SPENDING

NORTH CAROLINA'S TOURISM INDUSTRY CONTRIBUTES OVER \$23 BILLION IN ANNUAL VISITOR SPENDING TO LOCAL ECONOMIES.



HELP THE ECONOMY GROW

Investments are needed to improve and expand the seaports, airports and other gateways where cargo comes in and out of the state.

- Seaports
- Airports
- Intermodal Yard

