

# CHALLENGES FACING TRANSPORTATION IN NORTH CAROLINA

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# TRANSPORTATION = FREEDOM

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EXPANDS OPTIONS FOR

HOME

WORK

PLAY



# TRANSPORTATION = ECONOMIC DEVELOPMENT

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REDUCING COSTS OF MOVING

MATERIALS

PRODUCTS

LABOR

# TRANSPORTATION DEVELOPMENT LEADS TO ECONOMIC DEVELOPMENT

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WALK

HORSE

BARGE

TRAIN

VEHICLE

PLANE





# RATES OF RETURN

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ANNUAL FINANCIAL RETURN FROM  
TRANSPORTATION SPENDING HAS  
BEEN ESTIMATED TO BE BETWEEN  
**15% AND 25%**

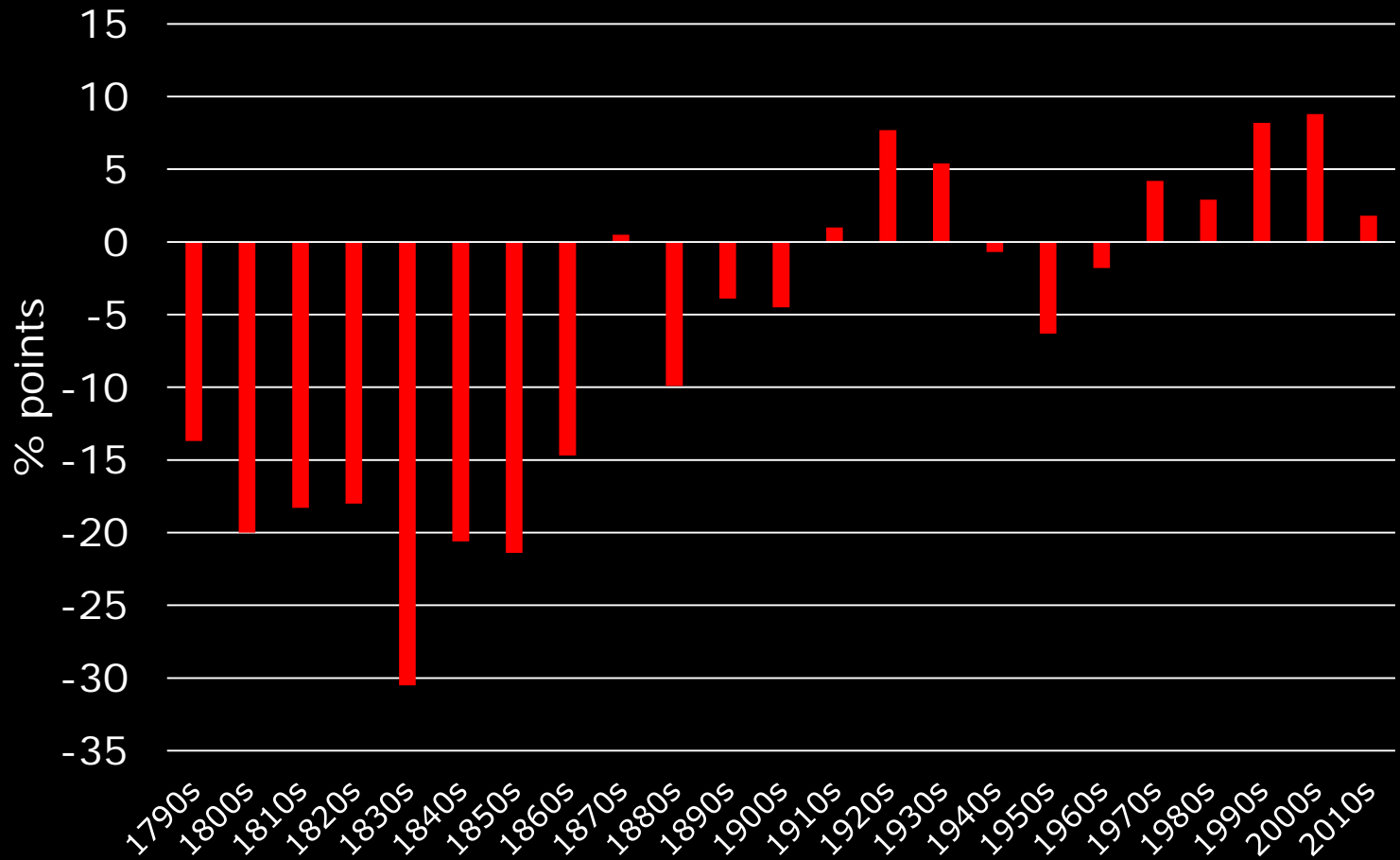
LARGE EMPLOYMENT IMPACTS

# TRANSPORTATION IS AN IMPORTANT CONTRIBUTOR TO NORTH CAROLINA'S GROWTH

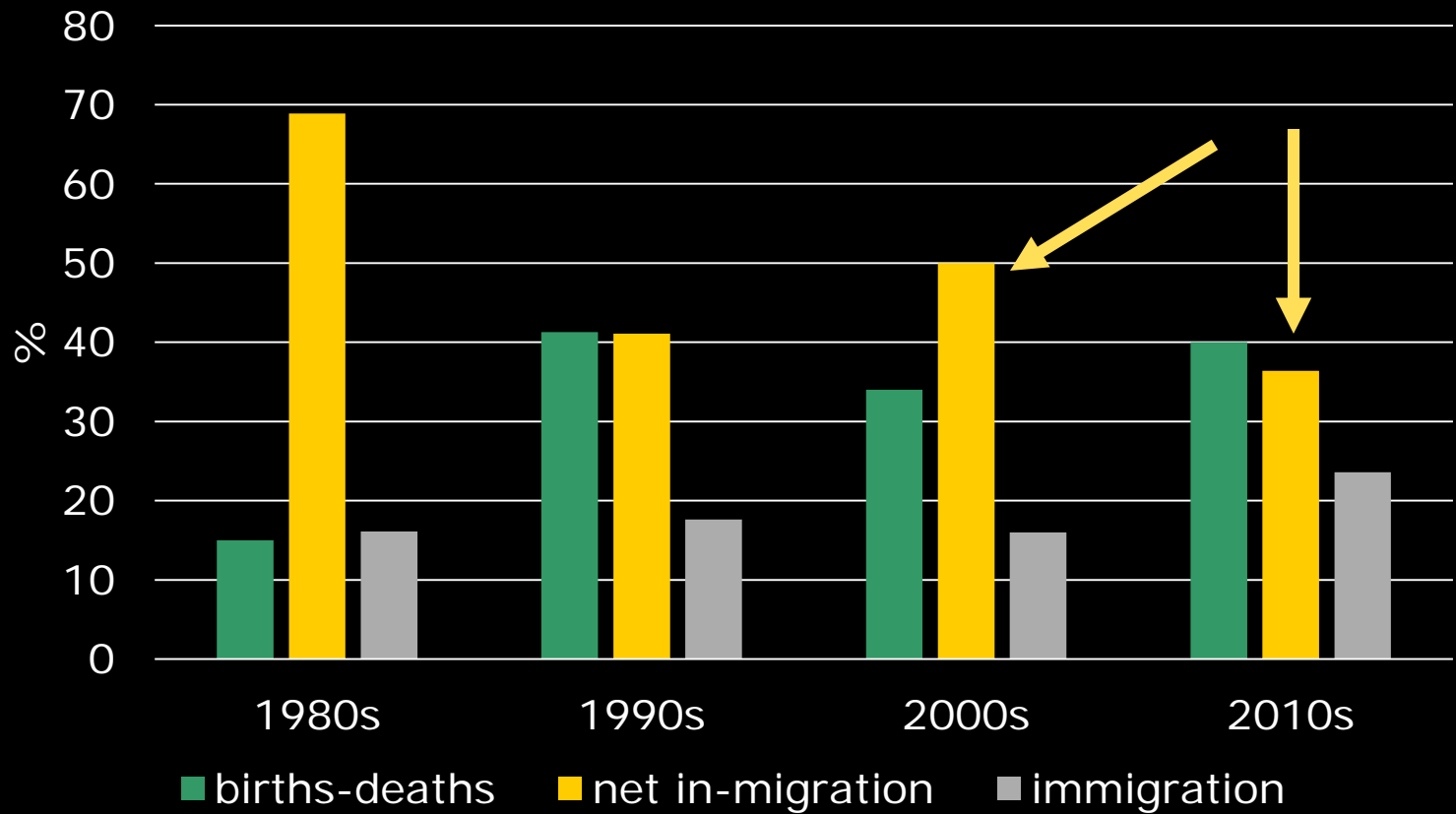


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# NORTH CAROLINA HAS BEEN OUTPACING THE NATION IN POPULATION GROWTH SINCE THE 1970S



## LARGE SHARE OF STATE'S GROWTH COMES FROM NET IN-MIGRATION







# NORTH CAROLINA POPULATION

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TODAY: 10.5 MILLION

2050: 13.4 MILLION

# TRANSPORTATION ISSUES FOR FAST-GROWING URBAN CORES



CONGESTION

HIGH LAND COSTS FOR  
PROJECTS

ROLE OF MASS TRANSIT

NEW MODES OF TRANSIT

# TRANSPORTATION ISSUES FOR GROWING SATELLITE COUNTIES

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FAST CONNECTIONS  
TO URBAN CORE

# TRANSPORTATION ISSUES FOR SLOW-GROWING RURAL AREAS

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USE TRANSPORTATION TO  
STIMULATE ECONOMIC  
DEVELOPMENT

- \* AGRIBUSINESS
- \* MANUFACTURING
- \* TOURISM
- \* RETIREMENT/SECOND HOME



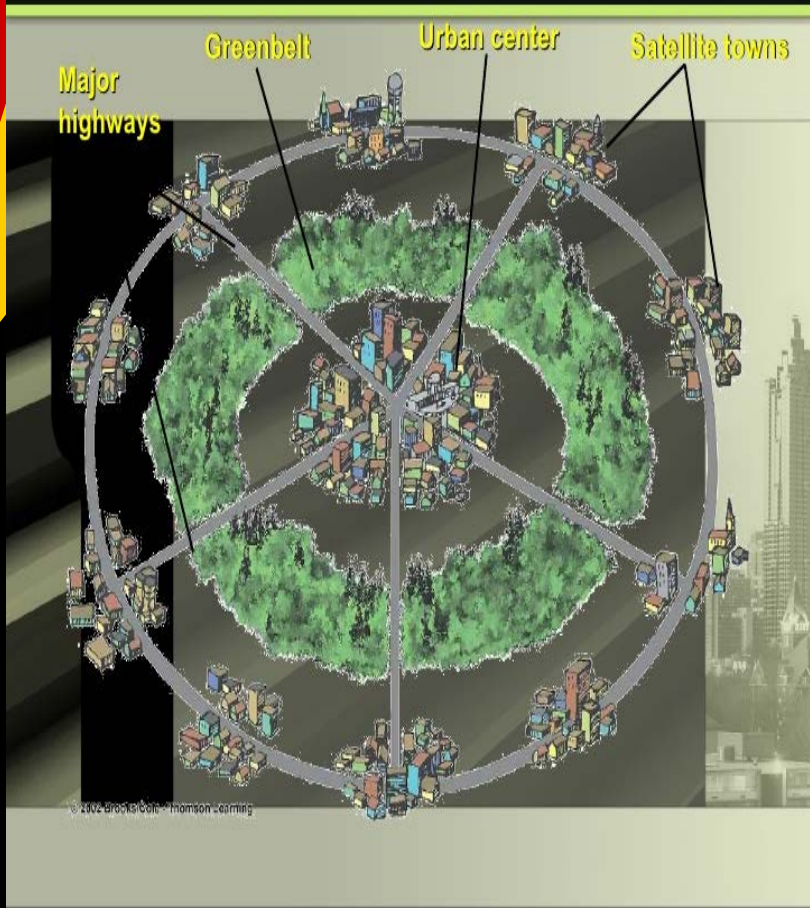
# “GAME-CHANGING” TECHNOLOGIES WILL IMPACT TRANSPORTATION

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AUTONOMOUS VEHICLES  
RIDE SHARING  
LOW COST HIGH-SPEED INTERNET  
VIRTUALIZATION  
DRONE DELIVERY  
REMOTE SERVICE DELIVERY  
CHEAPER AND FLEXIBLE  
TRANSPORTATION MATERIALS  
ALTERNATIVE FUELS

# TECHNOLOGIES COULD IMPACT HOW WE LIVE, WORK, PLAY, AND MOVE



IMPACTS ON:

VEHICLE OWNERSHIP  
COMMUTING  
REMOTE WORKING  
PRODUCT/SERVICE ACCESS  
REVERSE URBANIZATION

**IMPACT OF THESE CHANGES ARE BEING  
STUDIED BY THE NC FIRST COMMISSION**



FUTURE INVESTMENT RESOURCES FOR SUSTAINABLE TRANSPORTATION

# CHALLENGES FOR FINANCING TRANSPORTATION



IMPROVED MPH AND  
ALTERNATIVE FUELS ARE  
WORKING AGAINST THE  
STATE GAS TAX

SAME ISSUES FOR FEDERAL  
GAS TAX, PLUS RATE  
UNCHANGED SINCE 1993

POTENTIAL DROP IN VEHICLE  
OWNERSHIP THREATEN  
HIGHWAY USE TAX



# MOBILITY MODE ISSUES, #1

## WILL THE AUTO BE OUT-DATED?

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ECLIPSE OF THE  
PRIVATE AUTO?

NEED FEWER ROADS?

# MOBILITY MODE ISSUE #2

## WHAT KIND OF MASS TRANSIT?



BUS – FLEXIBLE

RAIL – EXPENSIVE, FIXED,  
BUT FAST

RIDE-SHARE –  
CONVENIENT

# MOBILITY MODE ISSUE #3: THE ROLE OF PORTS: AIR AND WATER



SEPARATE FINANCING?

INCREASED DEMAND FOR  
AIR SERVICE

PORTS AS ECONOMIC  
DEVELOPMENT TOOL

TIE-IN TO ROAD TRANSIT

# IMMEDIATE FUTURE FOR TRANSPORTATION: KEY ISSUES

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CONGESTION

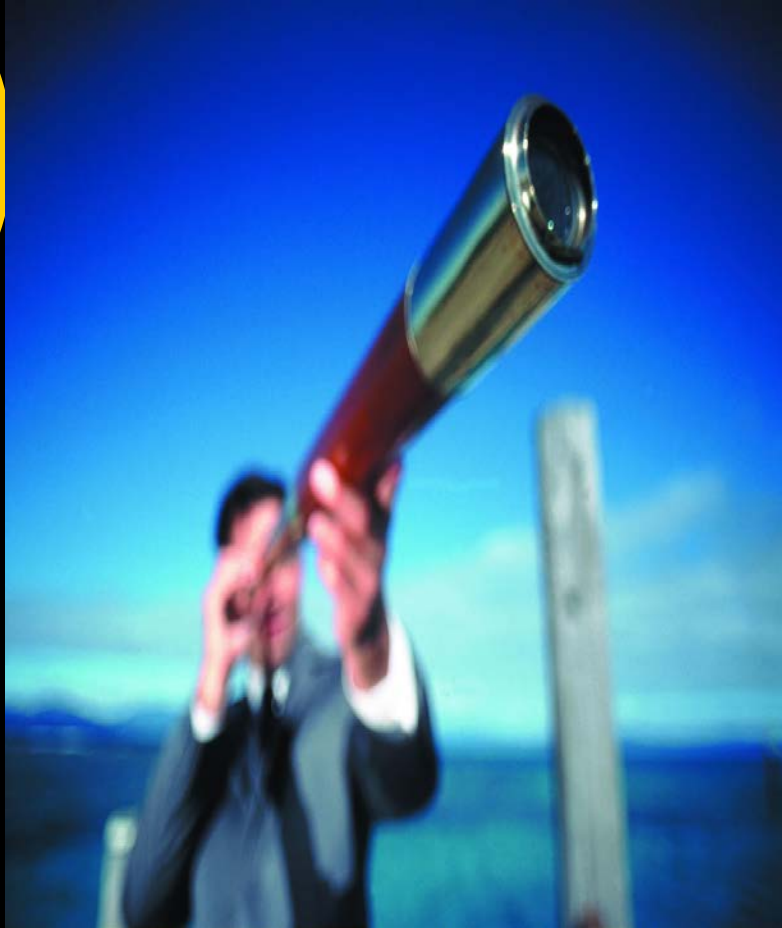
CONNECTION

ECONOMIC DEVELOPMENT

HOW, WHERE WE LIVE

# LONGER RUN FUTURE OF TRANSPORTATION IS EVOLVING

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DEPENDS ON HOW FAST  
TECHNOLOGY OCCURS

AND HOW LIVING,  
WORKING, AND  
COMMUTING PATTERNS  
CHANGE – IMPACT OF  
COVID-19





# CONCLUSION

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TRANSPORTATION IS A KEY PART OF OUR  
ECONOMY – ALLOWS US MAXIMIZE THE  
ECONOMY

BUT TRANSPORTATION IS SEEING BIGGEST  
CHANGES AND CHALLENGES IN A CENTURY

HOW WILL WE RESPOND?