

NORFOLK SOUTHERN AND NORTH CAROLINA

House Select Committee on Strategic Transportation
Planning and Long Term Funding Solutions
North Carolina Transportation Museum
January 7th, 2019

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Norfolk Southern Corporation



About

NORFOLK SOUTHERN



19,500 ROUTE MILES
across **22 STATES & D.C.**



↔ **GATEWAY CITIES TO WESTERN CARRIERS**

MAKING CONNECTIONS

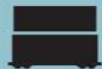
Norfolk Southern (NYSE: NSC) has served the freight transportation needs of America for nearly two centuries, connecting businesses and communities to the marketplaces of the world — creating jobs, supporting economies, and transporting goods on safe, environmentally friendly rail.



43 PORTS SERVED



61 AUTOMOTIVE FACILITIES SERVED



55 INTERMODAL TERMINALS



154 TUNNELS



62,700 FREIGHT CARS



250 SHORT LINE CONNECTIONS

Adds 20,000+ miles to NS network



CONNECTS

with Western rail carriers



4,155 LOCOMOTIVES



9,706 BRIDGES



41 RAIL-TRUCK TRANSFER FACILITIES

SUPPORTING ECONOMIES & COMMUNITIES

Economic Impact



27,100 EMPLOYEES

\$2.2 BILLION
PAYROLL



\$121,000
ANNUAL AVERAGE EMPLOYEE
WAGE & BENEFITS

\$5.2 BILLION
PURCHASES & PAYMENTS



\$930 MILLION
LOCAL, STATE & FEDERAL
TAXES PAID

\$1.7 BILLION
NS-FUNDED CAPITAL INVESTMENTS
(locomotives, freight cars, tracks
and bridges)



Business Magnet

ATTRACTING ECONOMIC GROWTH

75 INDUSTRIES
NS HELPED
LOCATE & EXPAND

\$1 BILLION
IN CUSTOMER
INVESTMENTS

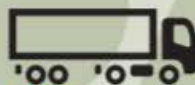
2,000 JOBS
CREATED

Extensive Network Reaches Over

50% OF U.S.  *Population,* 
MANUFACTURING & ENERGY CONSUMPTION

Greener for the Globe

RAIL'S ENVIRONMENTAL ADVANTAGES



1 TRAIN = **280** TRUCKS

NS TRAINS GET

410



MPG PER TON

Safety is our No. 1 Priority

COMMUNITY EDUCATION & OUTREACH



8,100 FIRST RESPONDERS
TRAINED

WHEN YOU SEE TRACKS, THINK TRAIN!

EXPECT A TRAIN ON
ANY TRACK AT ANY TIME.



**OPERATION
LIFESAVER[®]**
Look, Listen & Live



Charitable Giving

NS FOUNDATION | 2013-2017



2017 DATA



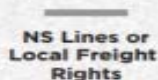
NORFOLK SOUTHERN IN NORTH CAROLINA

BEHIND EVERY NS TRAIN IS AN
EXTENSIVE NETWORK OF TRACK
AND TERMINALS, A FLEET
OF SOPHISTICATED
LOCOMOTIVES AND
FREIGHT CARS,
AND A
TEAM
OF DEDICATED EMPLOYEES WHO
WORK AROUND THE CLOCK TO
PROVIDE SAFE AND RELIABLE RAIL
TRANSPORTATION.



Not all lines shown.

NS OPERATIONS



INFRASTRUCTURE
in North Carolina

1,187
Miles of Track
Operated

500
Bridges

2,530
Grade Crossings
(public and private)

Norfolk Southern and the North Carolina Community



PEOPLE

1,245 NS Employees

945 Railroad Retirement Recipients

ECONOMIC IMPACT

pays **\$81 MILLION**

PAYROLL

invests **\$64 MILLION**

INFRASTRUCTURE & FACILITIES

spends **\$342 MILLION**

PURCHASES, PAYMENTS, & TAXES

PARTNERSHIPS



BUSINESS MAGNET

NS helped **7** industries locate or expand in 2017, resulting in:

\$89 MILLION CUSTOMER INVESTMENT
102 NEW JOBS



CHARITABLE GIVING

The NS Foundation contributed

\$1.2 MILLION TO NORTH CAROLINA COMMUNITIES
over the last five years.



CONNECTIONS

NS tracks connect with **12** short line railroads in North Carolina.



PASSENGER RAIL

Amtrak operates **10** regularly scheduled passenger trains over NS tracks in North Carolina.

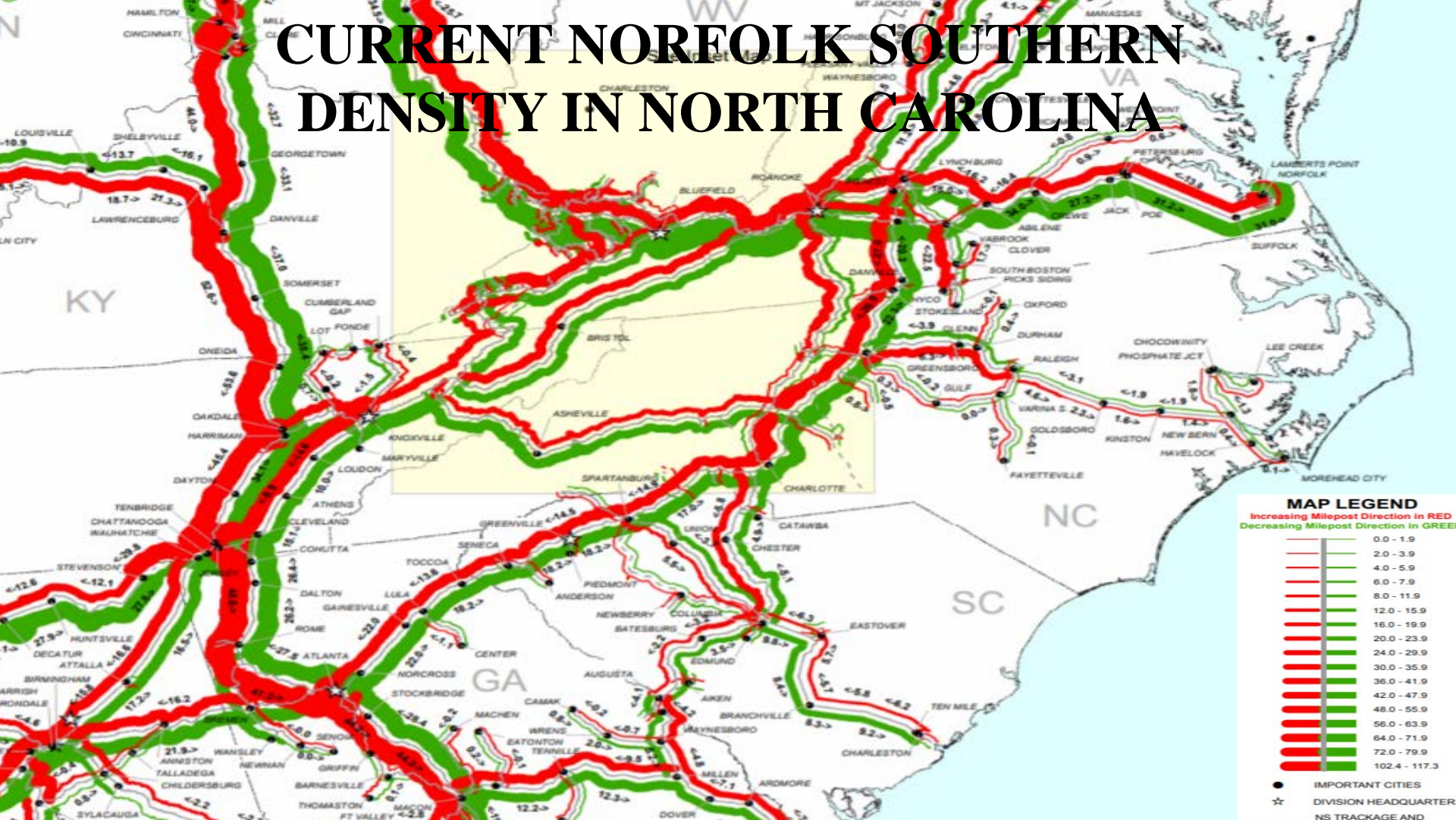
CHARLOTTE REGIONAL INTERMODAL TERMINAL

The 200-acre, **\$92 million** terminal at Charlotte Douglas International Airport is expected to generate \$7.6 billion in regional economic development in the next 20 years, creating more than 7,000 jobs.



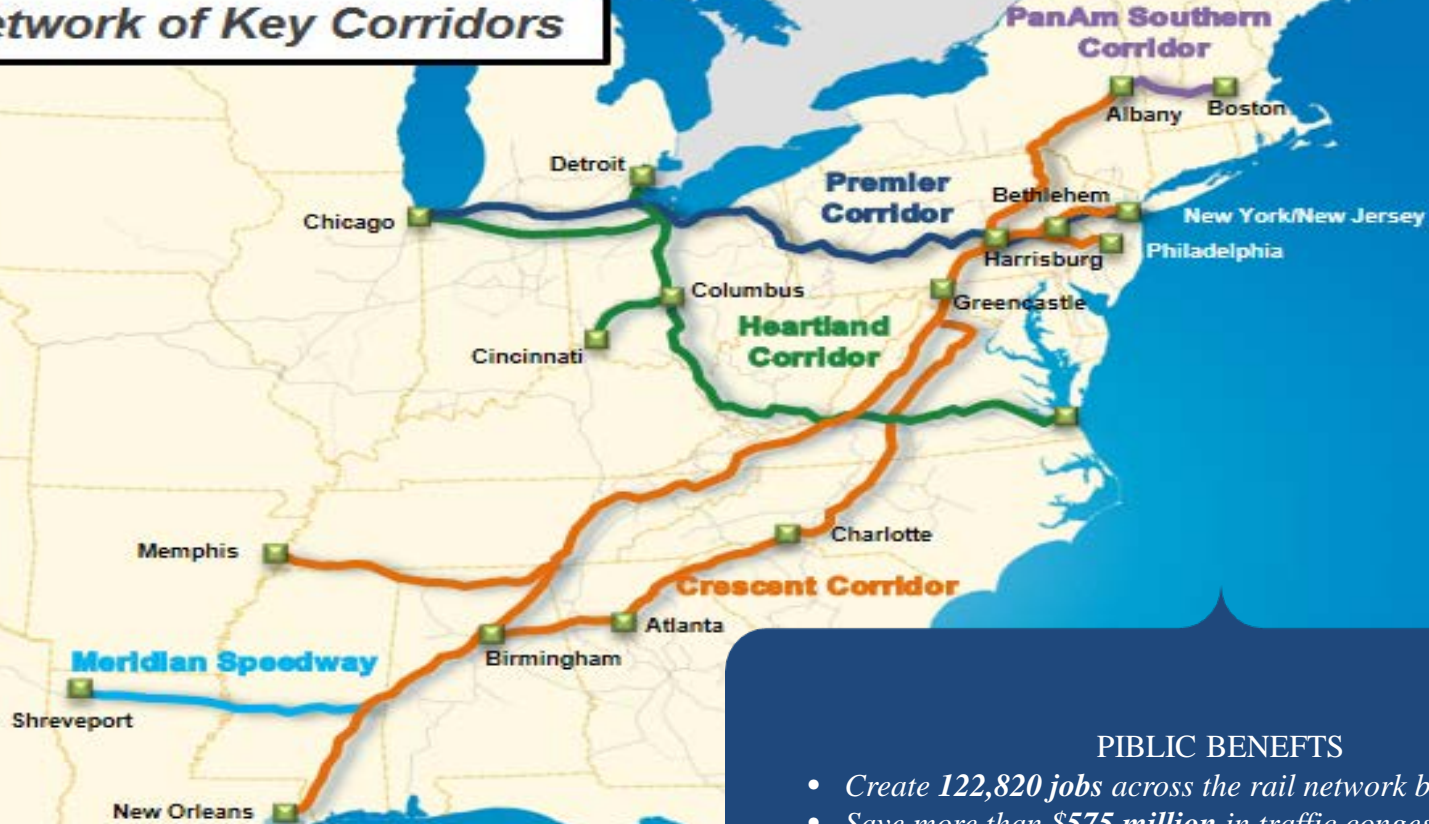
A detailed map of the Southeastern United States, covering parts of North Carolina (NC), South Carolina (SC), Georgia (GA), and Virginia (VA). The map highlights major cities and transportation routes. Major cities labeled include: Asheville, Hendersonville, Blacksburg, Spartanburg, Greenville, Walhalla, Toocoa, Lula, Anderson, Newberry, Columbia, Chester, Rock Hill, Gastonia, Charlotte, Salisbury, High Point, Greensboro, Durham, Raleigh, Goldsboro, New Bern, Havelock, Camp Lejeune, Fayetteville, Varina S., Gulf, Asheville, Barber, Hickory, Winston-Salem, Rural Hall, Eden, Fieldale, Danville, South Boston, Abilene, Pamplin, Lynchburg, Forest, Roanoke, Lone Star, Beckley, Princeton, Bluefield, Richlands, Marion, St. Paul, Andover, St. Charles, Frisco, Bulls Gap, Johnson City, Morris-Town, Knoxville, Loudon, Hens, and Anderson. Major transportation routes are shown in various colors: green for the Appalachian region, orange for the Piedmont region, and blue for the coastal region. The map also shows the Atlantic Ocean to the east and the Gulf of Mexico to the south.

CURRENT NORFOLK SOUTHERN DENSITY IN NORTH CAROLINA



NORFOLK SOUTHERN'S CRESCENT CORRIDOR

A Network of Key Corridors



PUBLIC BENEFITS

- Create *122,820 jobs* across the rail network by 2030
- Save more than *\$575 million* in traffic congestion annually
- Reduce *1.9 million tons* of carbon dioxide annually

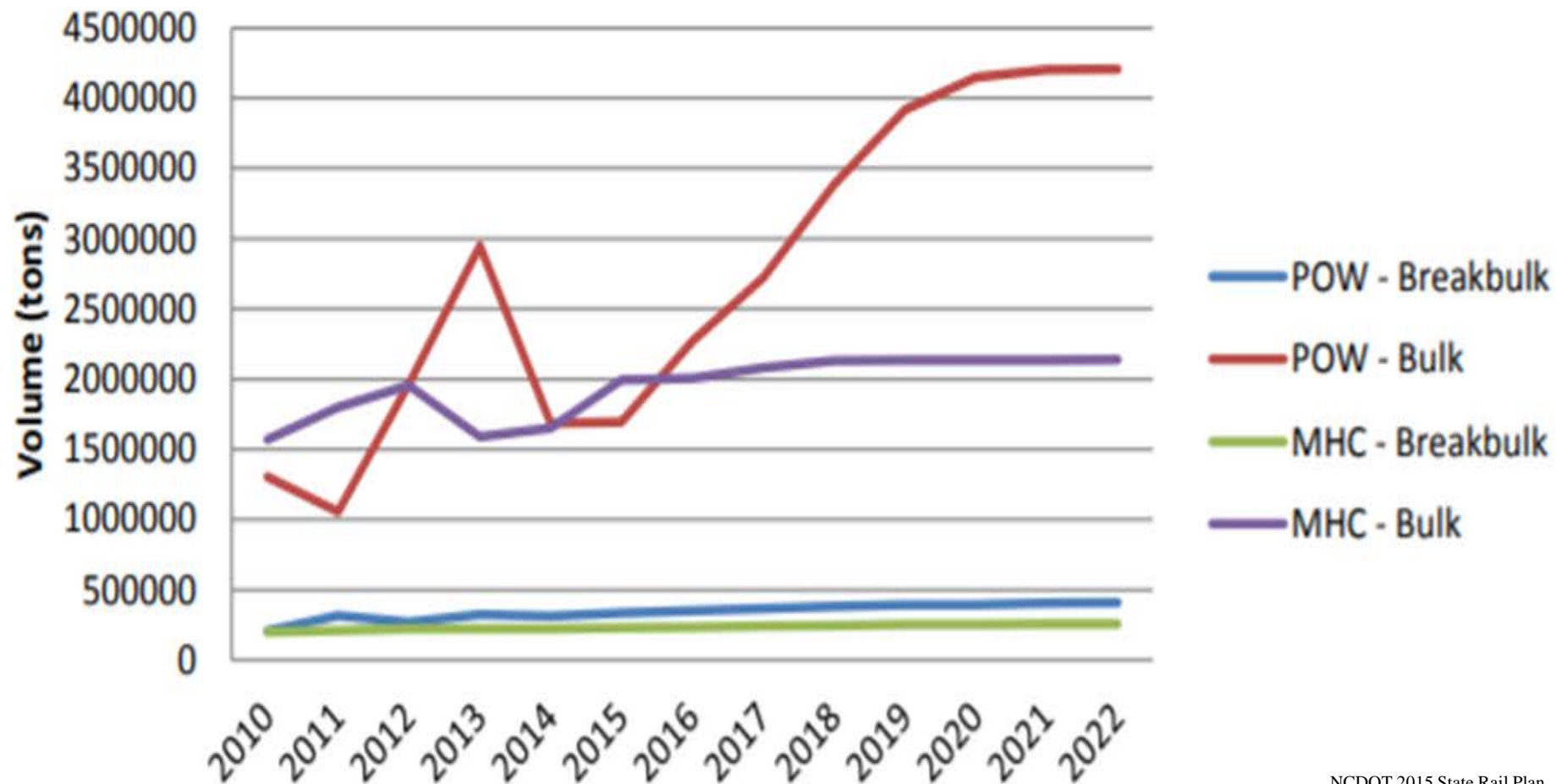
CHARLOTTE INTERMODODAL FACILITY

EXPECTED PUBLIC BENEFITS BY 2030

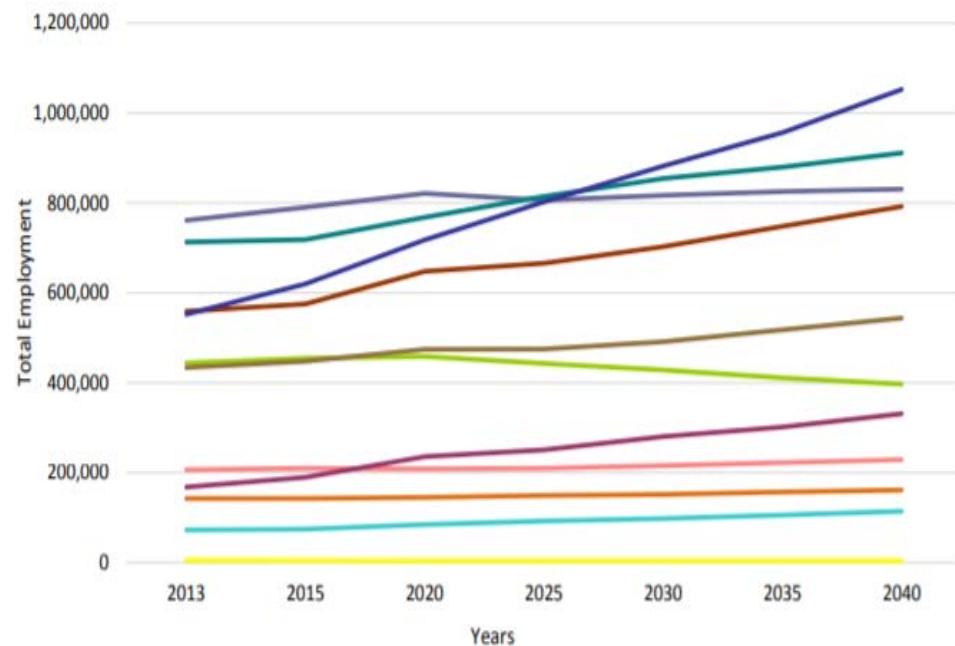
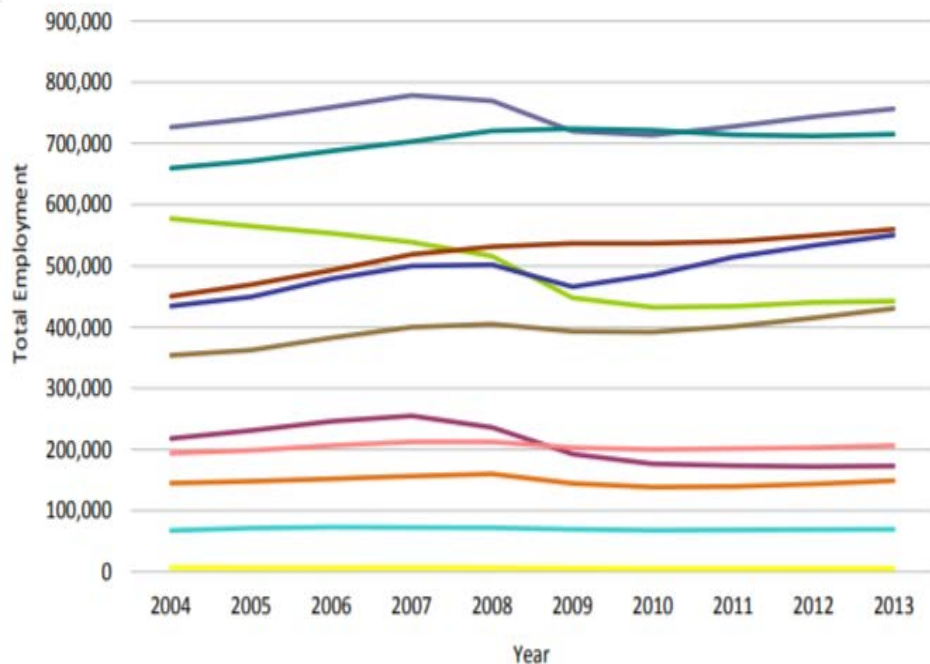
- **\$6.5 billion** in monetized public benefits
- **8.4 million hours** of travel saved for motorists due to reduced congestion
- **668,000 fewer tons** of carbon dioxide emitted
- **\$7.6 billion** in regional economic development
- **157 new jobs onsite** and stimulate the creation of **5,000 jobs** regionally



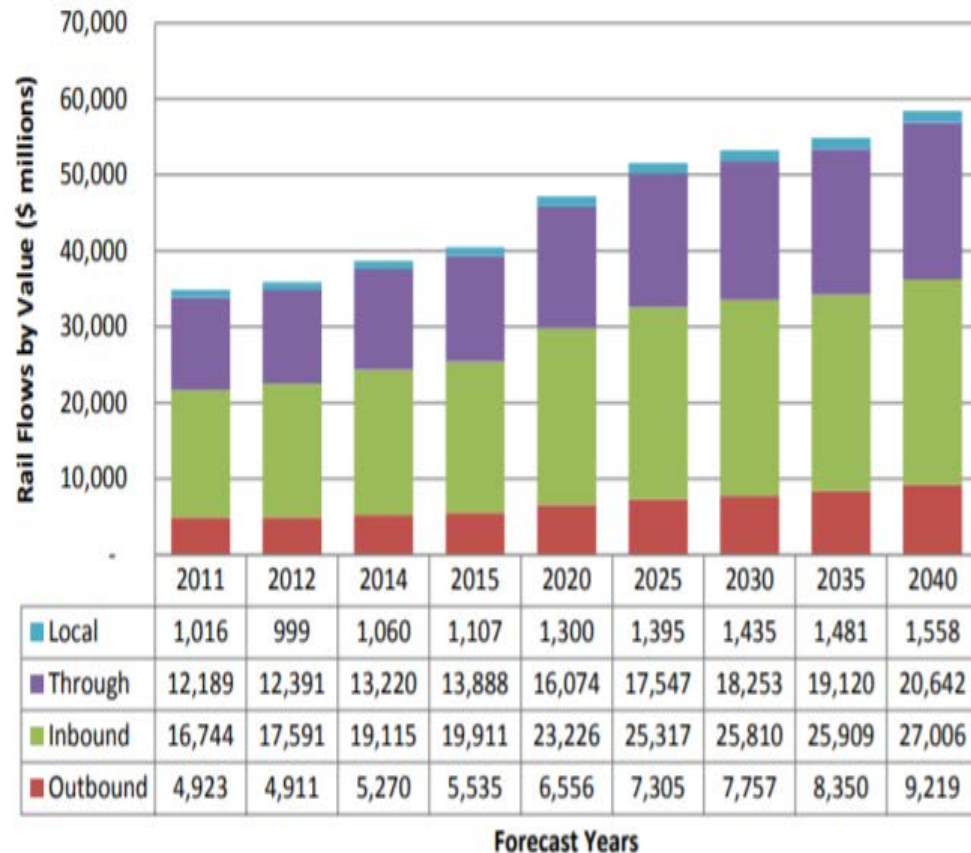
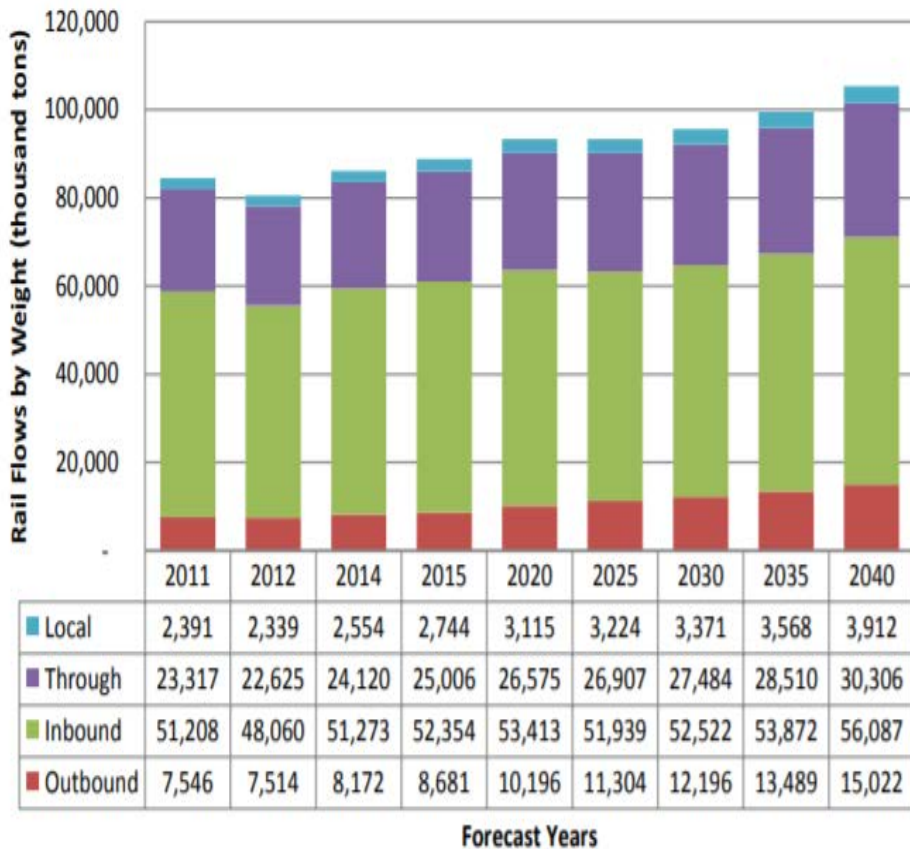
PROJECTED GROWTH AT NC PORTS



CURRENT AND PROJECTED ECONOMIC TRENDS IN NORTH CAROLINA

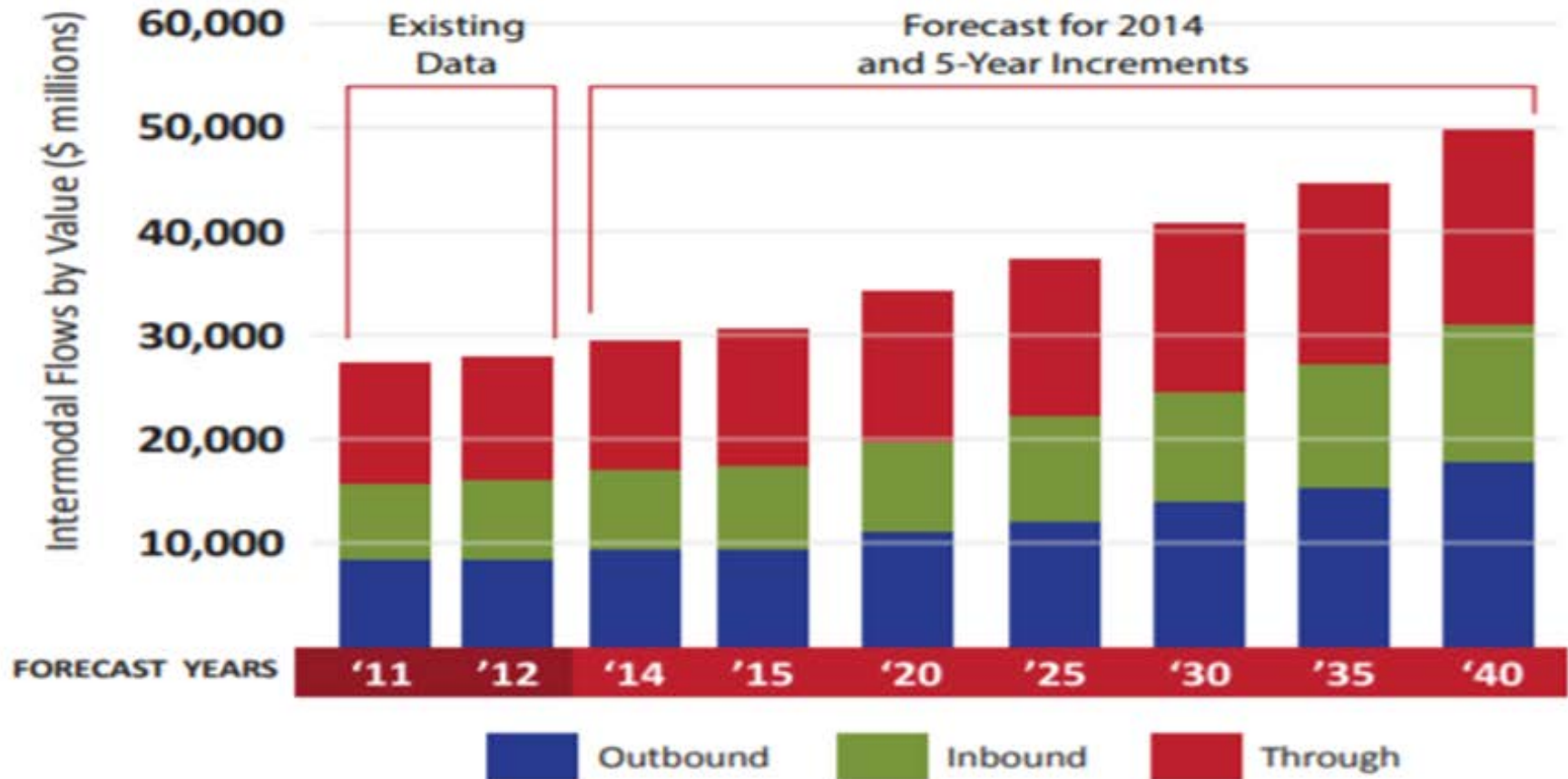


PROJECTED FREIGHT RAIL TRENDS IN NORTH CAROLINA



PROJECTED INTERMODAL GROWTH

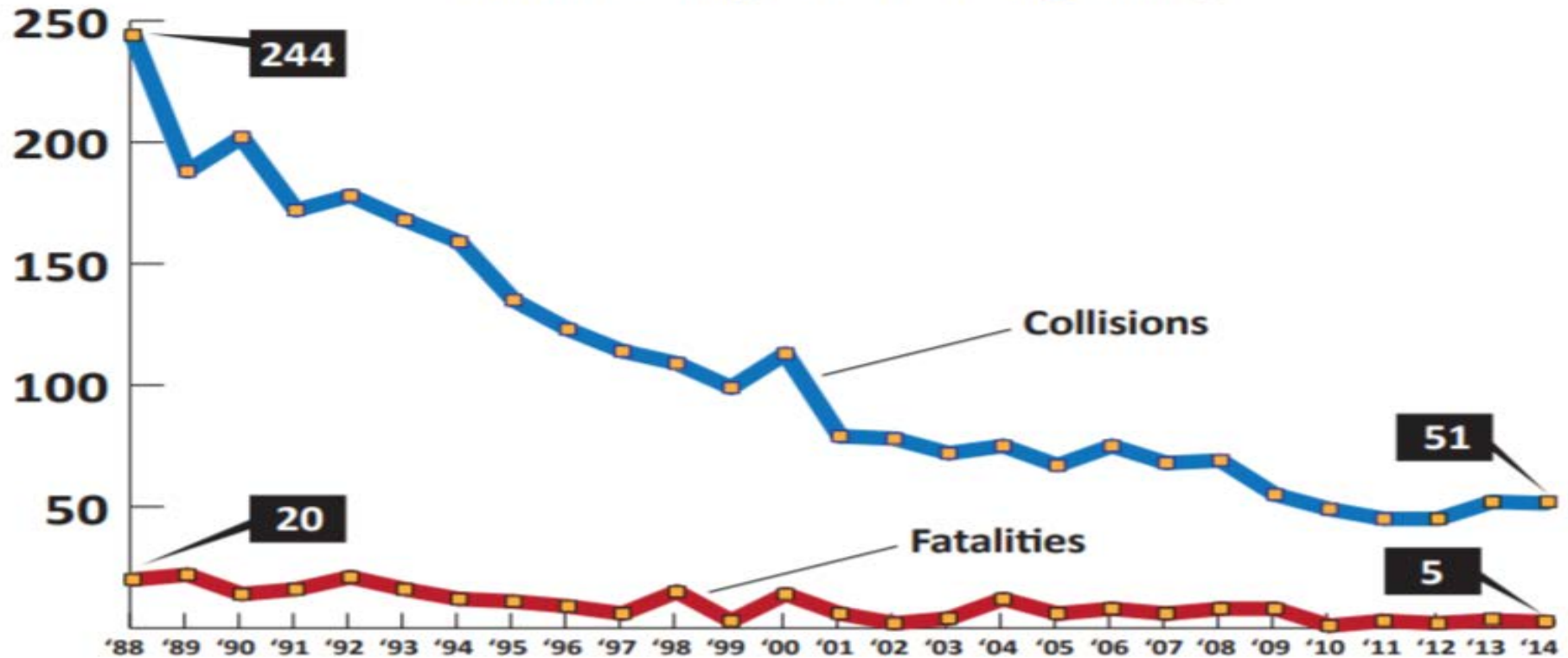
North Carolina Intermodal Rail Flows by Value



AT-GRADE RAIL CROSSINGS IN NORTH CAROLINA

Train-Car Collisions

Rail crossing incidents are declining in North Carolina
as NCDOT improves crossing safety



FREIGHT RAIL FUTURE CHALLENGES



2,775/2,900
LOCOMOTIVES

LOCOMOTIVES
EQUIPPED & PTC
OPERABLE



109/132
TRACK SEGMENTS

TRACK
SEGMENTS
COMPLETED



3,672/3,730
TOWERS

RADIO
TOWERS
INSTALLED



18,469/18,832
EMPLOYEES

TRAINING
COMPLETED



AVAILABLE

SPECTRUM ⁺



MILES

ROUTE MILES IN
REVENUE SERVICE
DEMONSTRATION
(RSD) ⁺



CONDITIONALLY
CERTIFIED

PTC SAFETY
PLAN ⁺



4,212/8,028
MILES

ROUTE MILES
IN PTC
OPERATION



0/28
RAILROADS

INTEROPERABILITY ⁺

QUESTIONS?

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