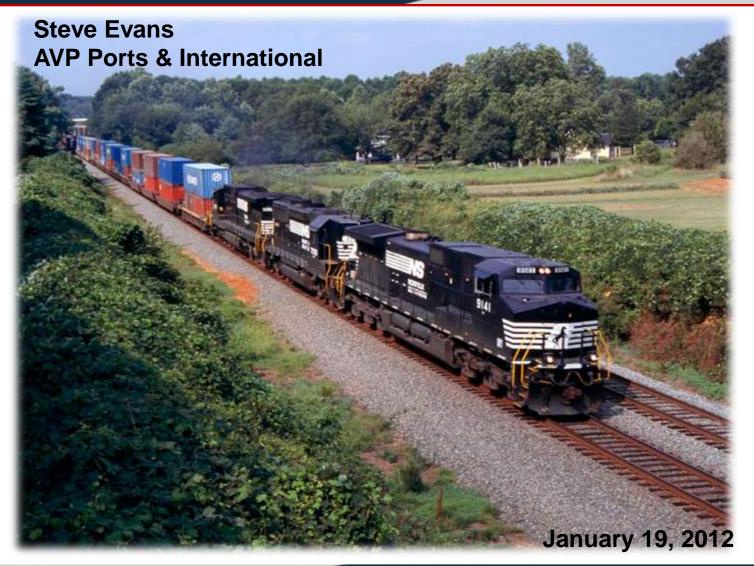
Shifting International Trade Routes

American Association of Port Authorities





The Thoroughbred

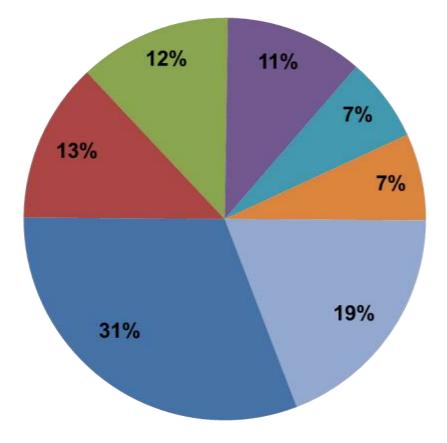
A few words about Norfolk Southern



I promise, just a few....



2011 Norfolk Southern Revenue Breakout



- Coal
- Agriculture
- Chemicals
- Metals
- Paper
- Automotive
- Intermodal

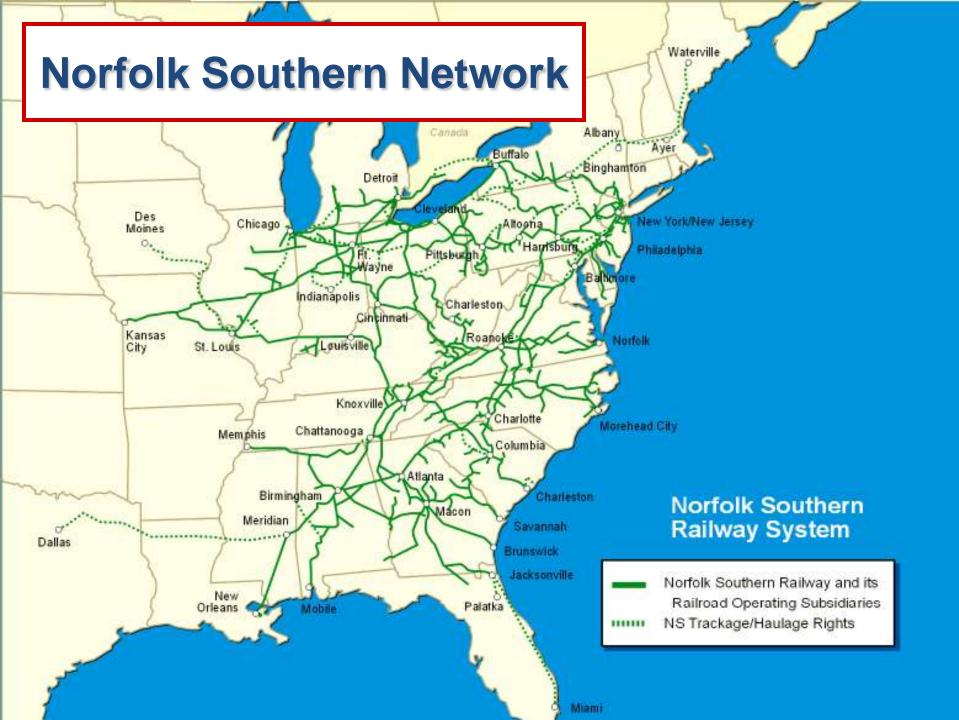


Description of Business

- 4th Largest Class 1 Railroad in North America
- Operations in 22 states and the District of Columbia
- NS serves every major container port in the eastern United States
- Safest railroad in North America
- Largest automotive and steel franchises in North America by volume



Largest Intermodal franchise in the east



Ports Served by Norfolk Southern



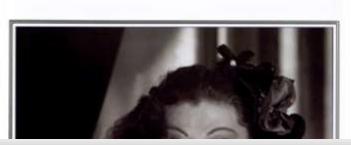
How does Norfolk Southern see the trade routes shifting after the expansion of the Panama Canal?





Ports and International Trade Balance

We don't have a clue



"If one were to ask 10 experts to give you their opinion regarding the impact of the opening of the third set of new, improved, and larger Panama Canal locks (effectively slated for 2015), they would likely receive 10 different, well thought, thorough prognostications." -John Larkin, Stifel Nicolaus





Ports and International Trade Balance

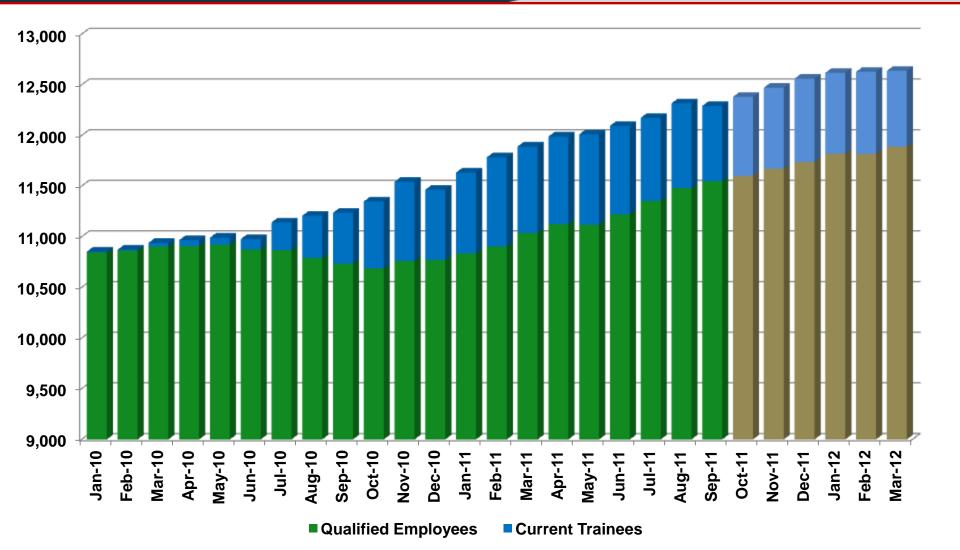
But doing nothing is not an option



So how do we prepare for the unknown?



Manpower Planning Model Total Qualified T&E Employment plus Trainees



One line, infinite possibilities

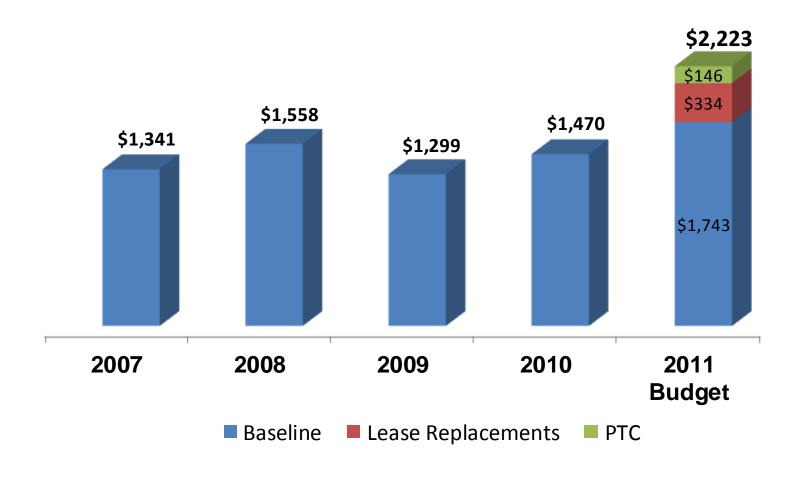
Ports and International Trade Balance

Spend Money



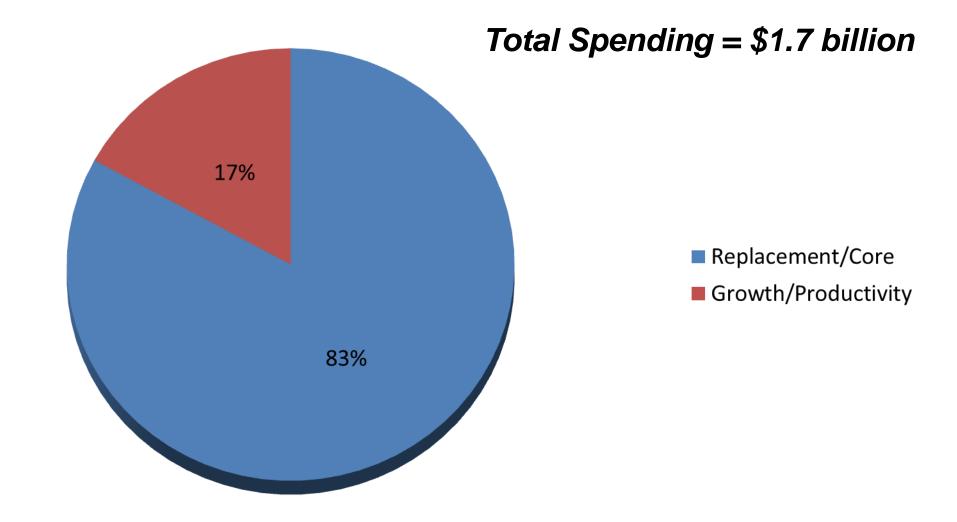


Total Capital Program (\$ millions)



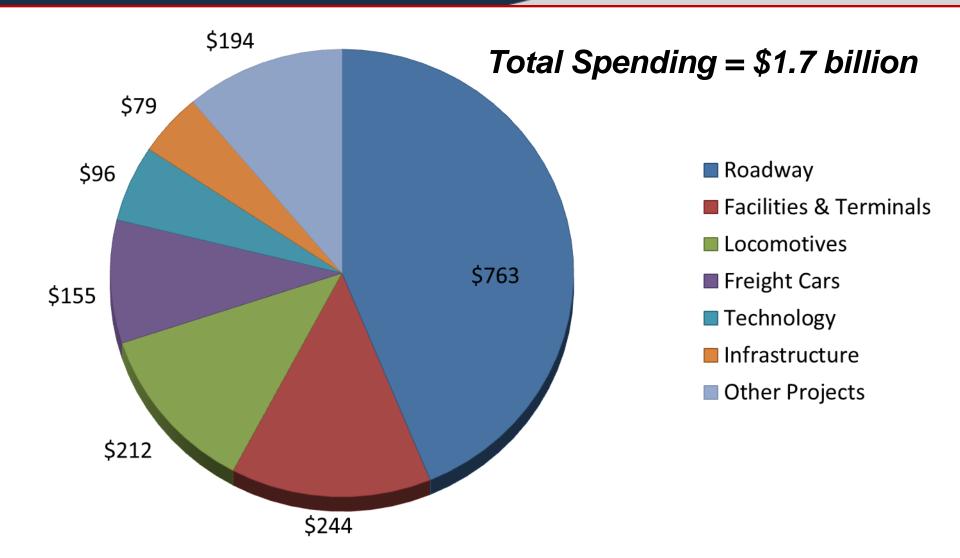


2011 Baseline Capital Program Replacement/Core vs. Growth





2011 Baseline Capital Program (\$ Millions)





2011 Capital Program Objectives

- Maintain the franchise
- Strengthen the coal fleet
- Invest in business growth
- Optimize capital efficiency (purchase versus lease)



Major Port Categories

- Container/Intermodal
- Ro Ro
- Bulk
- Break Bulk

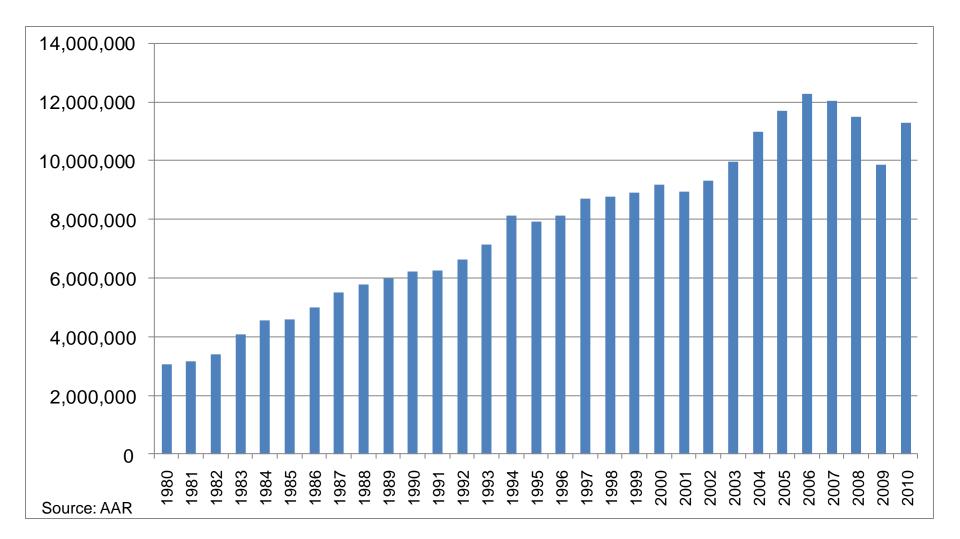


Key Drivers for Continued Container/Intermodal Investment

- Rising demand for logistics savings from shippers and BCOs
- Shifting long-term supply chain patterns
 - Shorter haul service (250 1200 mi) or (400-1930 km)
 - Higher quality service demands
 - International from both coasts
- Continued, but tempered, U.S. economic growth
- Increasing environmental awareness
- Increasing motor carrier costs and capacity constraints

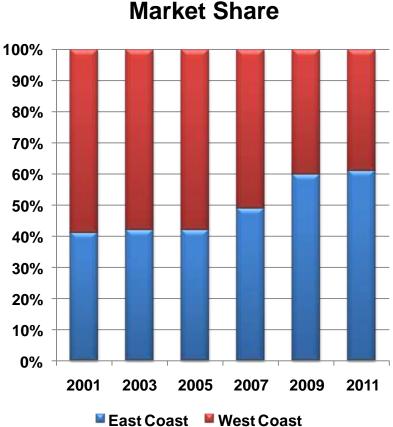


Total US Intermodal Units Originated

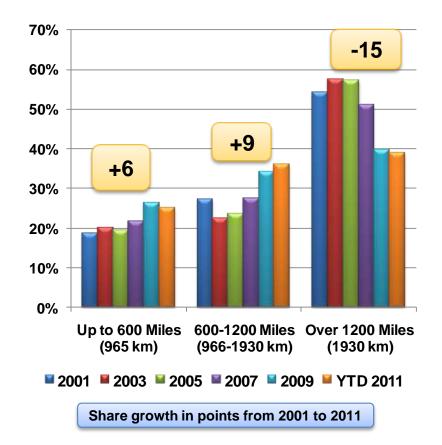


One line, infinite possibilities.

Changing International Trade Characteristics



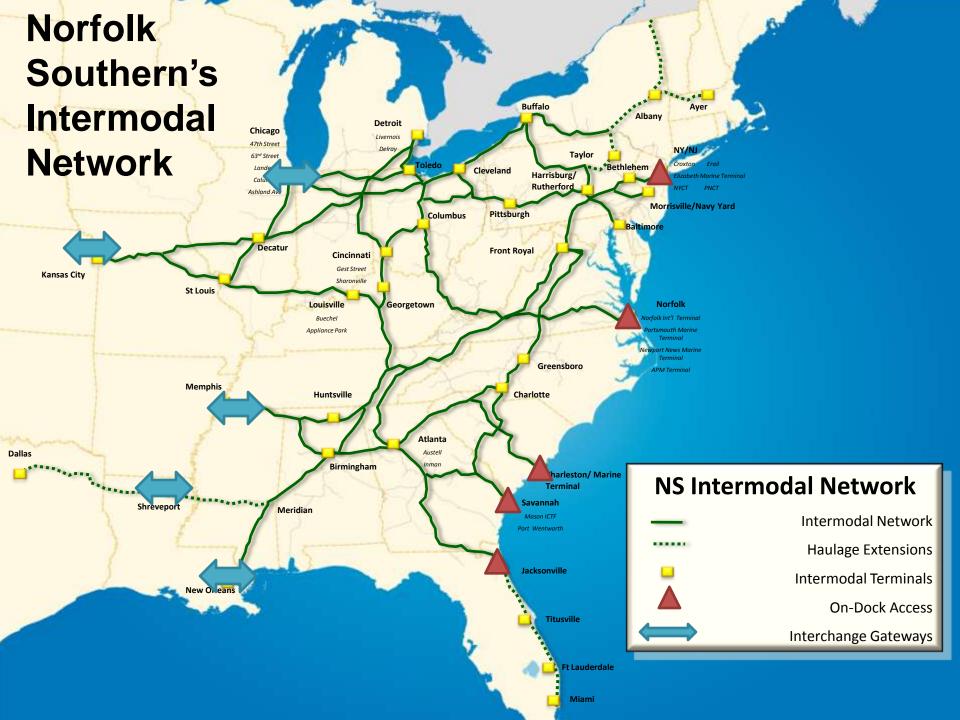
NS East Coast vs. West Coast Market Share



One line, infinite possibilities

NS International

Length of Haul



Norfolk Southern NY/NJ Services

St. Louis

Kansas City



Existing NY/NJ Served Points Existing NY/NJ Service Routes Planned NY/NJ Service Routes

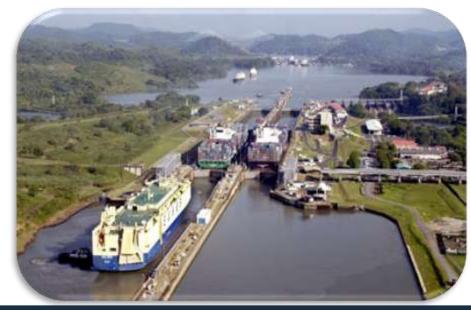


NS Southeast Port Services



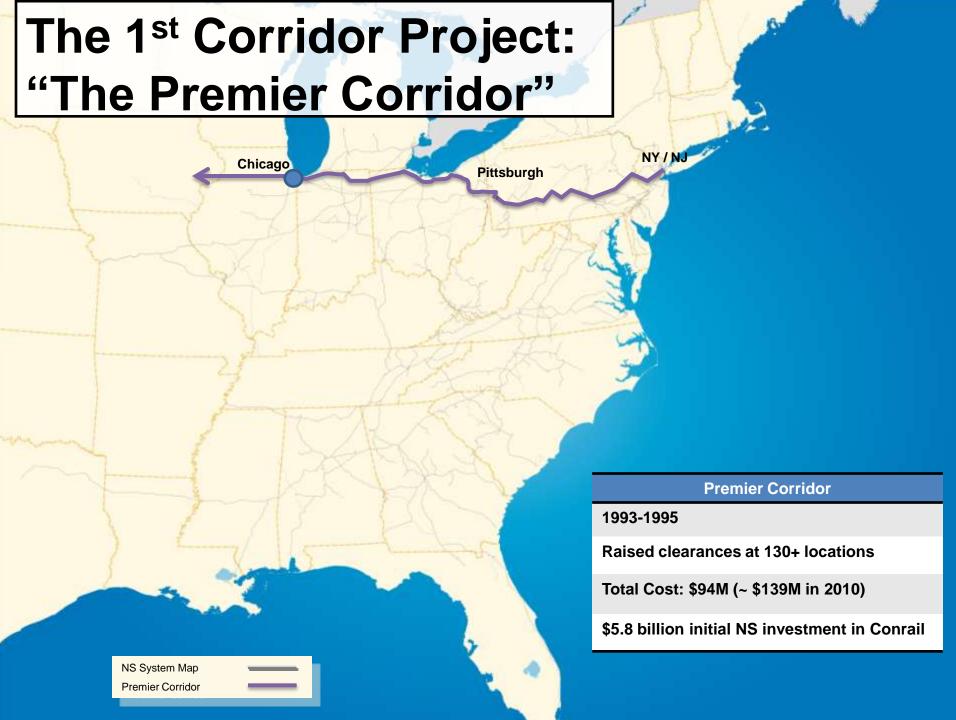
Panama Canal - 2014

- In preparation for the Panama Canal widening, NS will have completed:
 - The Heartland Corridor
 - New Columbus Terminal
 - The Meridian Speedway
 - The PanAm Southern Corridor
 - The Crescent Corridor
 - New Birmingham Terminal
 - New Memphis Terminal
- Our capacity initiatives will continue with a focus on enhancing network efficiency and eliminating cost









Meridian Speedway

Meridian

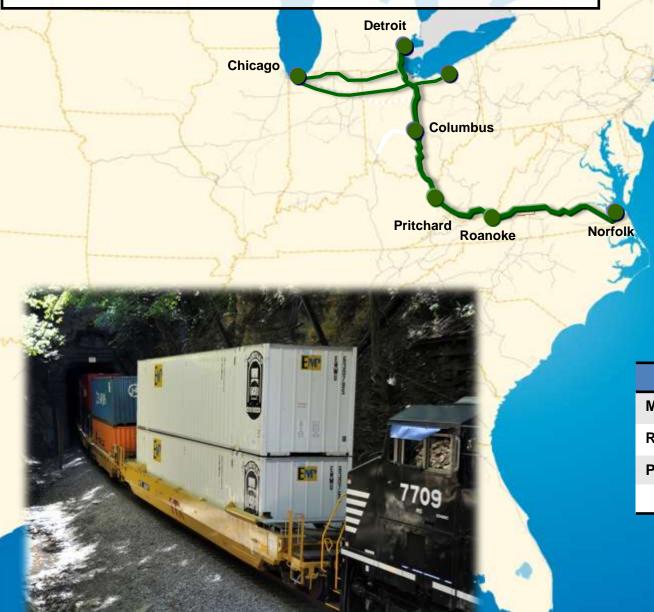
Shreveport

5

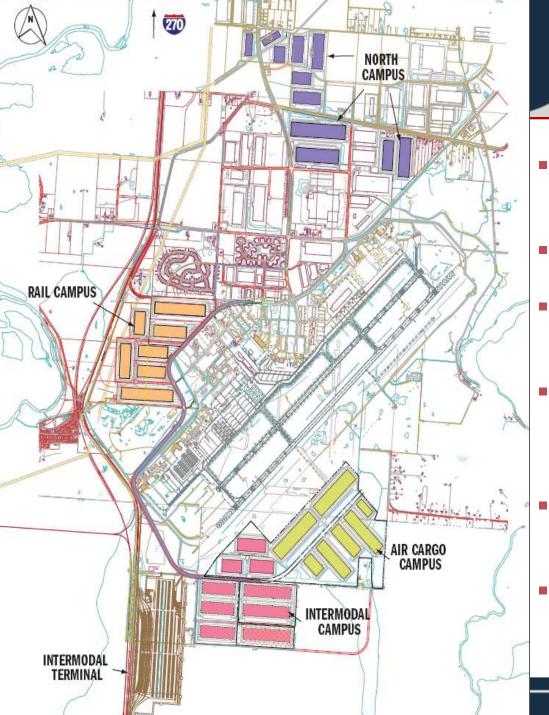


Joint venture with KCS

The Heartland Corridor



		Total Cost
Mainline Clearance		\$150M
Roanoke Terminal		\$22M
Prichard Terminal		\$19M
T	OTAL	\$191M



GLP - Rickenbacker (Columbus, OH)

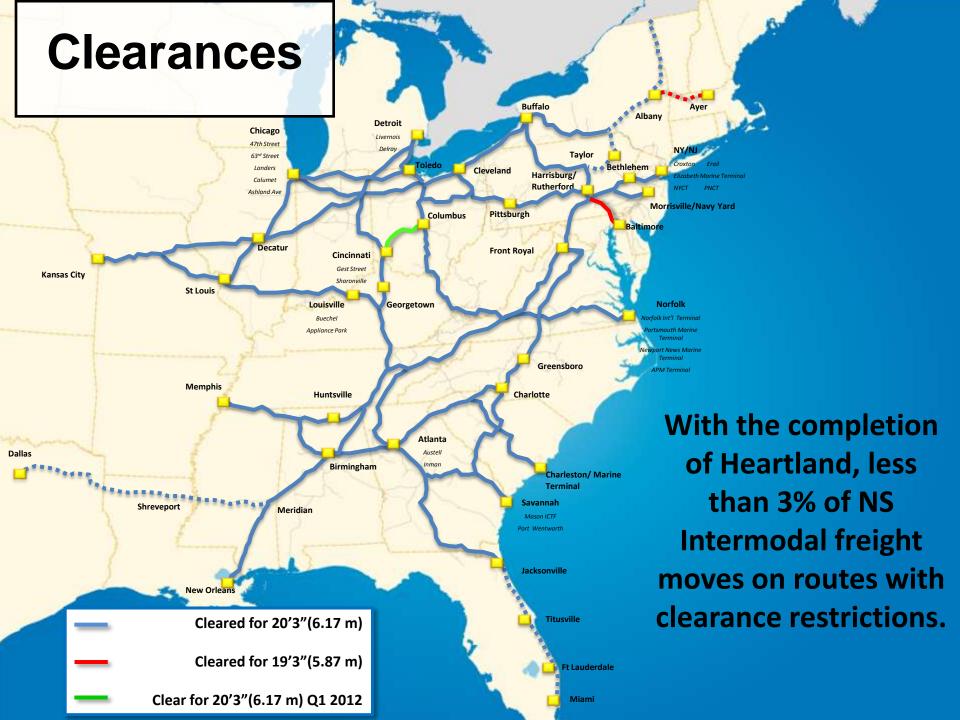
- GLP Rickenbacker is NS' first integrated logistics park
- Located 18 miles from Columbus
- Over 15,000 acres of existing or planned development
- Anchored by NS' new 300 acre intermodal facility and the Rickenbacker airport
- Integrates intermodal, carload and logistics capabilities
- Accommodates the delivery of overweight containers throughout the facility

e line, infinite possibilitie

Rickenbacker Logistics Park

300 Acres available
4 Support Tracks (14,000')
3 Pad Tracks (9,300')
Expanded Leads to/from Mainline

1,888 Wheeled Parking Spots408 Stacked Spaces (2 high)4 Overhead Cranes / 1 Sideloader



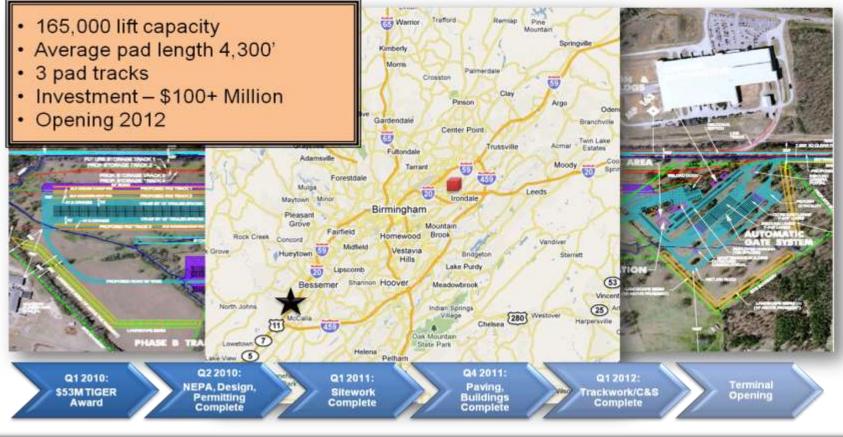
PanAm Southern JV

Albany Aye

Investment	Total Cost
Track Upgrades	\$50M
Terminal Capacity	\$40M
TOTAL	\$90M

The Crescent Corridor

Birmingham, AL (McCalla) Construction Start Date: Q4 2010



nanicville

Ave

Birmingham, AL (McCalla)





Birmingham, AL

Looking west, panorama of Birmingham Intermodal site

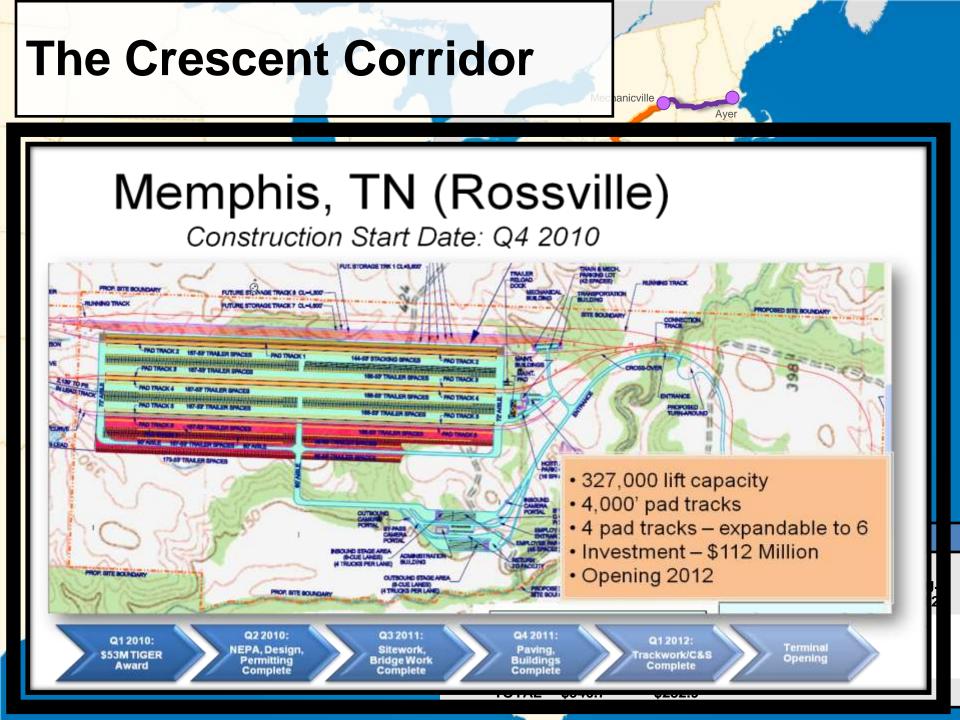


North and South views from McAshan overpass









Memphis, TN (Rossville)

•327,000 lift capacity •4,000' (1,219 m) pad tracks •4 pad tracks – expandable to 6 •Investment - \$112 million •**Opening 2012**

Memphis Regional Intermodal Facility



Aerial of Memphis Site

WB - NS Main Line - EB



What does this all mean?

- Our largest volume impact might *not be* due to route shifting and the opening of the canal
 - Rail growth will likely be rooted in:
 - Sustainability, making rail a "green" option
 - Ability to offer truck competitive service with shorter length of haul
 - Support through expansion of existing infrastructure and construction of new facilities
 - Increased number of T&E employees will support improved velocity efforts and service

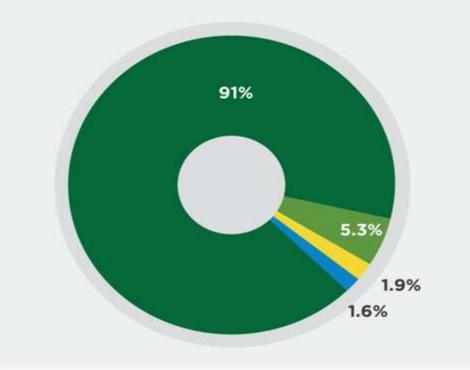


Norfolk Southern Carbon Mitigation Strategy

NORFOLK SOUTHERN'S 2010 CARBON FOOTPRINT

TOTAL EMISSIONS OF CARBON DIOXIDE EQUIVALENTS= 5.2 MILLION METRIC TONS

Emissions of CO2 equivalents, measured in metric tons



- DIESEL FUEL FOR LOCOMOTIVES, AND FUEL OIL/OFF-ROAD DIESEL (4.76 MILLION)
- ELECTRICITY FOR OFFICES, BUILDINGS, RAILROAD FACILITIES (279,250)
- GASOLINE (104,234)

OTHER (COAL, NATURAL GAS, PROPANE, JET FUEL) (85,365) We are working to reduce greenhouse gas emissions by 10% per RTM between 2009 and 2014. 2010 Progress: 3.9% reduction, goal 40% complete

One line, infinite possibilities

Norfolk Southern Carbon Mitigation Strategy

- Hybrid and fuel cell technologies
- Computer technology
- Reduced friction on rail through lubrication improvements (with solar lubricators)
- Reduced locomotive/heavy equipment idling time
- Avoidance of "stretch" braking
- "Pacing" of trains by dispatchers

Conservation Initiatives: Green Trees





Potential Port Opportunities

- Wood Pellets
- Rail/Container Transload Facility
 - Grain/Grain Products
 - Other Commodities
- Export Coal
 - Many export facilities full
 - How long will the boom last?
- Export Automobiles
 - BMW, Mercedes Benz, Toyota
 - Vehicles to/from Mexico





Thank You

