



NORTH CAROLINA PORTS

NC Ports Expansion Update
ASCE – NC Section, Coastal Branch

April 13, 2021

Agenda

- Why Expand?
- Projects Completed
- Projects Underway
- The Look Ahead
- Summary

Port of Morehead City



Why Expand?

ASCE Infrastructure Report Card 2021



































Seaports contributed
nearly 26% of the total GDP
in 2018

Ports and port tenants
plan to spend \$163 billion on their own
infrastructure
between 2021 and 2025

2021 Report Card for America's Infrastructure

G.P.A.

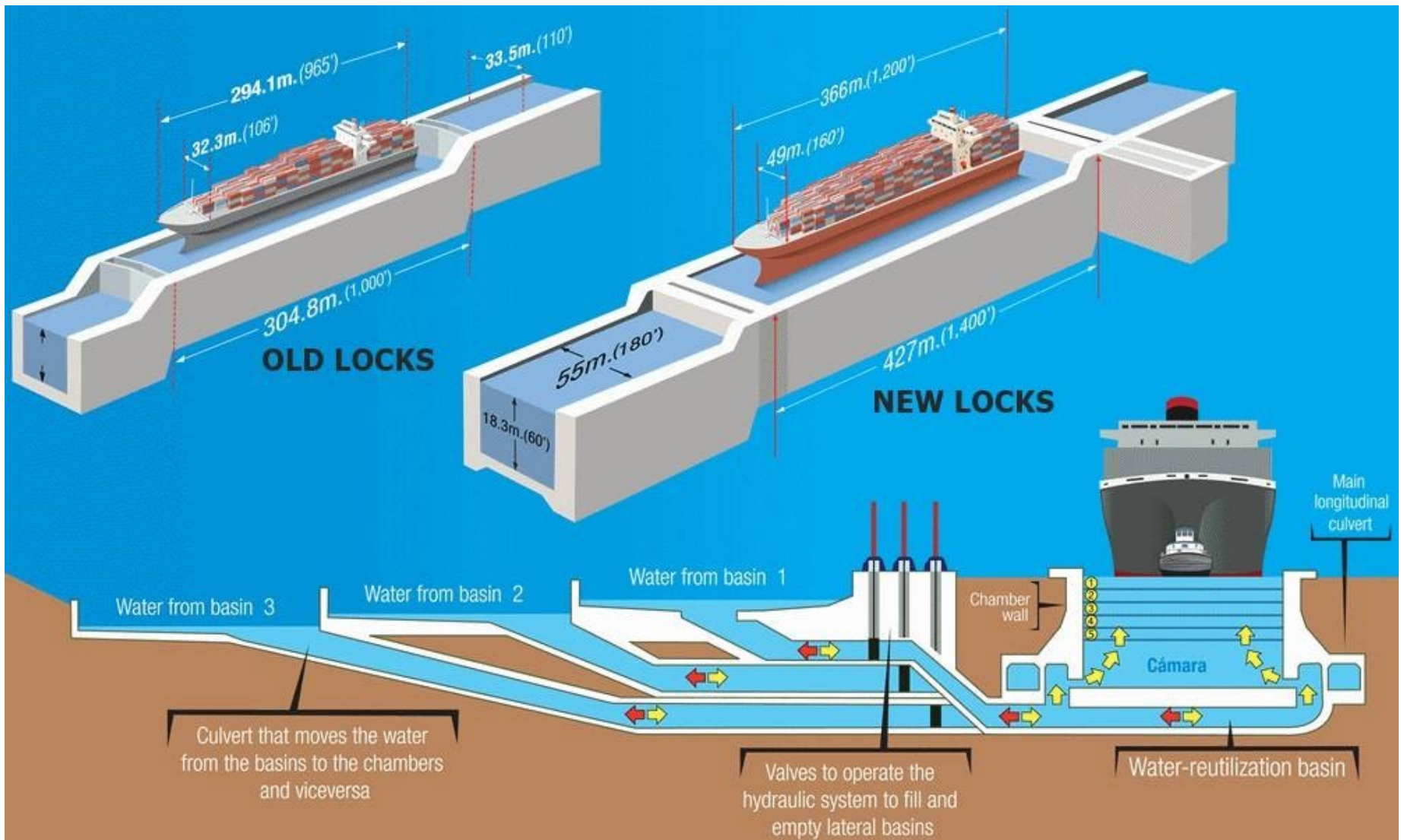


 AVIATION 	 PUBLIC PARKS 
 BRIDGES 	 RAIL 
 DAMS 	 ROADS 
 DRINKING WATER 	 SCHOOLS 
 ENERGY 	 SOLID WASTE 
 HAZARDOUS WASTE 	 STORMWATER 
 INLAND WATERWAYS 	 TRANSIT 
 LEVEES 	 WASTEWATER 
 PORTS 	

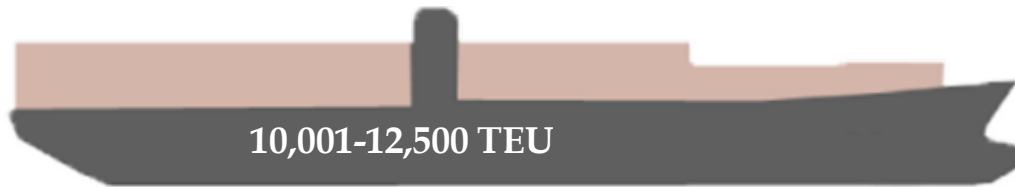
A large container ship is docked at a port, with a crane labeled "PORT OF WILMINGTON" visible in the background. The ship is loaded with many colorful shipping containers. The water is calm, and the sky is clear. The text "Panama Canal Locks" is overlaid in the center of the image.

Panama Canal Locks

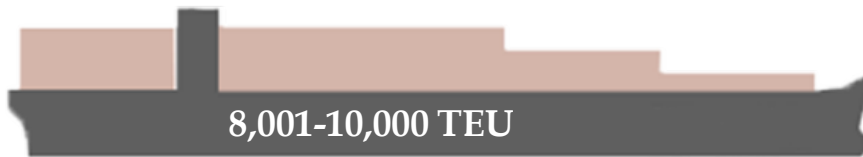
New Locks Opened June 2016



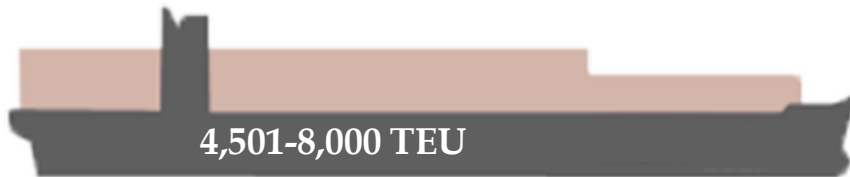
Container Shipping Specifications



Length: 1,200+ ft (366+ m)
Beam: 161-170 ft (49-52 m)
Designed Draft: 45-50 ft (13-15 m)



Length: 984-1,100 ft (300-335 m)
Beam: 158-161 ft (48-49 m)
Designed Draft: 41-48 ft (12-14m)



Length: 965-984 ft (294-300 m)
Beam: 141 ft (43 m)
Designed Draft: 41-45 ft (12 -14 m)



Length: 951-965 ft (290-294 m)
Beam: 105 ft (32 m)
Designed Draft: 41 ft (12.5 m)

* Most vessels that arrive at the Port of Wilmington do not arrive at designed draft





Projects Completed

Turning Basin- 2016 and 2020



Berth Reconstruction



Container Crane Procurement



Refrigerated Container (Reefer) Yard 2020



Refrigerated Container (Reefer) Yard 2020



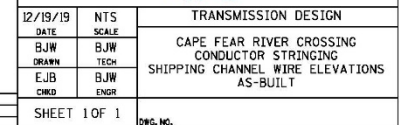
12/12/2019 10:08:40 AM R:\Projects_2018\101_2017-101-1016 Cape Fear River Feas Study\Drawings\4-Built Elevation DWG for Port\Surveying Elev DWG.dgn
OPEN TABLE BEN.tbl PLOT DRIVER pdf.plt\$g ORIGINAL SHEET SIZE 36x24 (in.) MDTA=Option 1 Fod



PICKETT AND ASSOCIATES, INC.
909 CAPABILITY DRIVE, SUITE 2700
RALEIGH, NORTH CAROLINA 27606
PHONE: (919)-355-5530
NC COA NO. F-0948

1. VERTICAL DATUM: NAVD 88 (WITH GEIOD12B)

00	12/19/2019	AS-BUILT CONDUCTOR ELEVATIONS	B. WADSWORTH	E. BENTON	G. PONTULA
REV	DATE	REVISION	BY	CHECKED	APPROVED



An aerial photograph of a large container ship docked at a port. The ship is heavily loaded with stacked shipping containers. A large gantry crane with the words "PORT OF WILMINGTON" is visible in the upper left. The ship is positioned in a wide waterway, with a marshy area and some trees on the right bank. The entire image is covered with a semi-transparent blue filter.

Projects Underway

South Gate Complex Improvements 2021



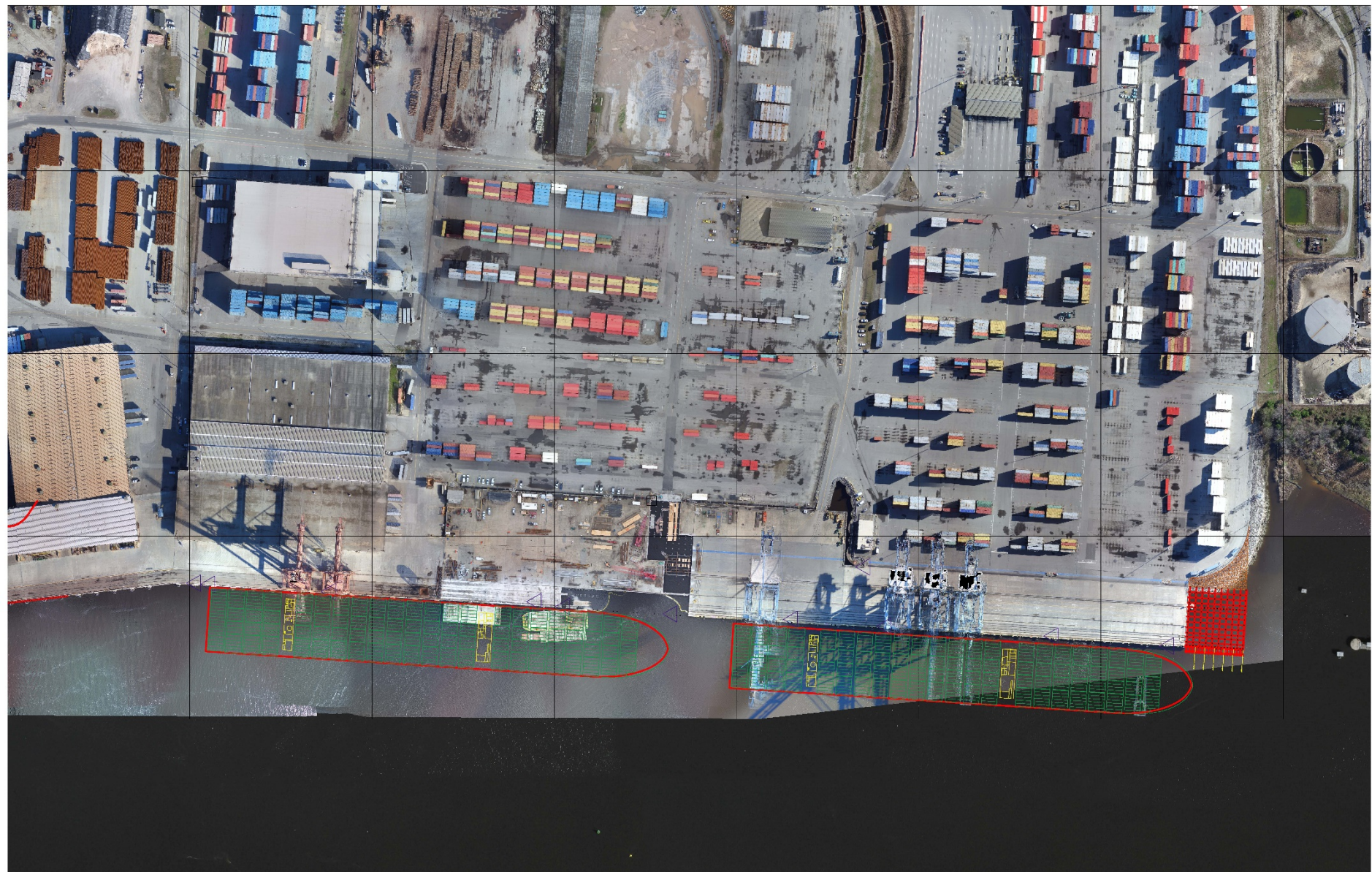
South Gate Complex Improvements 2021

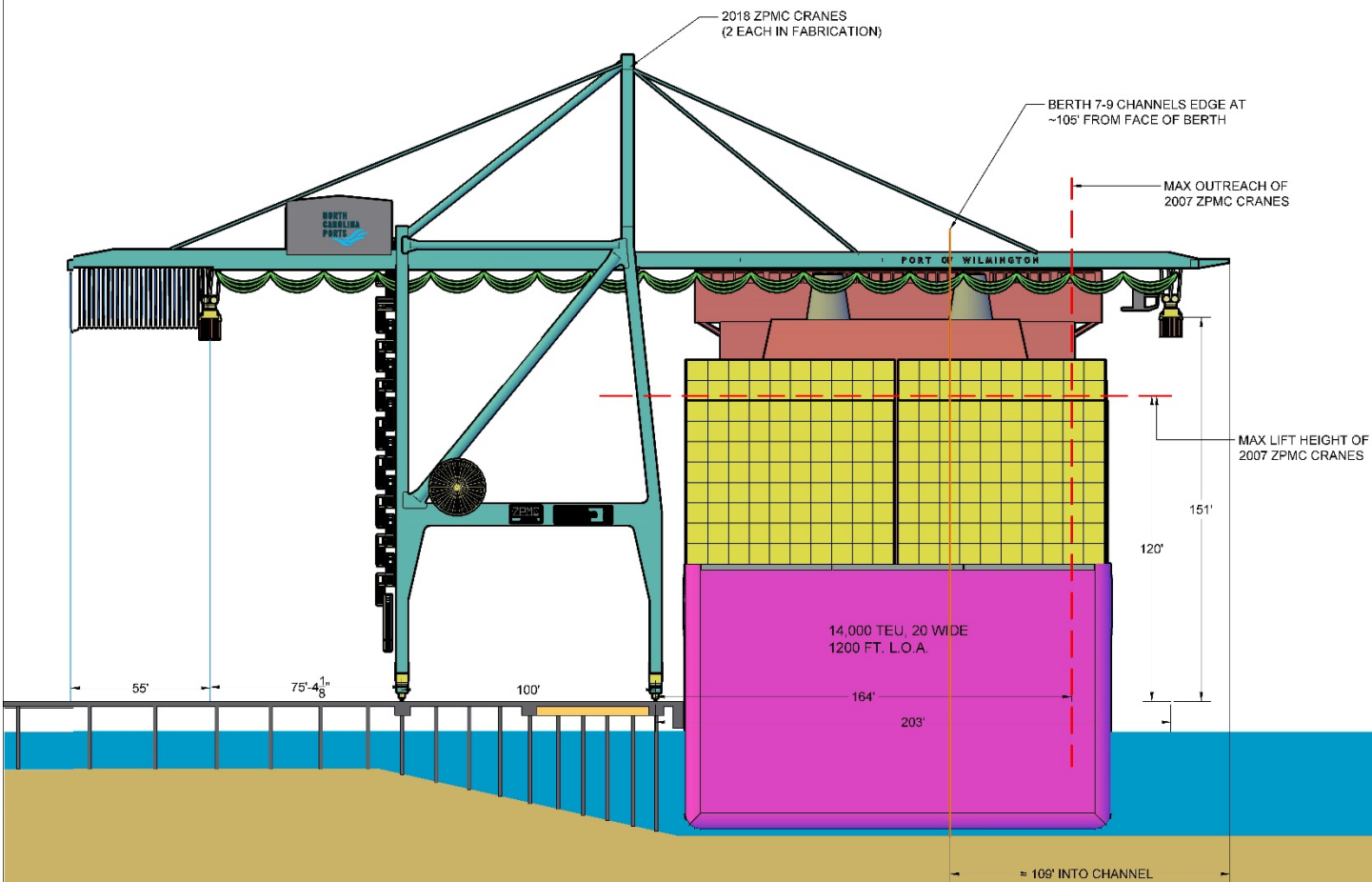




The Look Ahead







Cape Fear River Channel



- Wilmington Harbor Navigation Improvements authorized by Congress in WRDA 2020
 - Long-term viability requires channel improvements
 - Neighboring ports well underway

An aerial photograph of a large container ship docked at a port. A large gantry crane is positioned over the ship, with the words "PORT OF WILMINGTON" visible on its side. The ship's deck is filled with numerous stacked shipping containers. The surrounding area includes a body of water and some land with trees. The entire image has a blue color overlay.

Intermodal Rail Capability

NORTH CAROLINA PORTS



QUEEN CITY EXPRESS

- In order to expand the addressable market and provide better service to existing and future container customers, North Carolina Ports has secured reliable and cost competitive intermodal service at the Port of Wilmington.
- The establishment of intermodal rail service with best-in-class transit times and service in the existing CSX Class I network between the Port of Wilmington and CSX's intermodal terminal in Charlotte, NC.
- A shuttle service with double stacked containers directly between Wilmington and Charlotte to create a reduced cost for cargo destined to the Greater Charlotte region.
- Best-in-class transit times; Wilmington to/from Charlotte overnight.
- Approximately 20 percent of U.S. South Atlantic port traffic is intermodal movements.

RECENT N.C. PORTS
CUSTOMER SURVEY:
90% NEED
INTERMODAL
SERVICE



N.C. PORTS ADVANTAGES - INTERMODAL

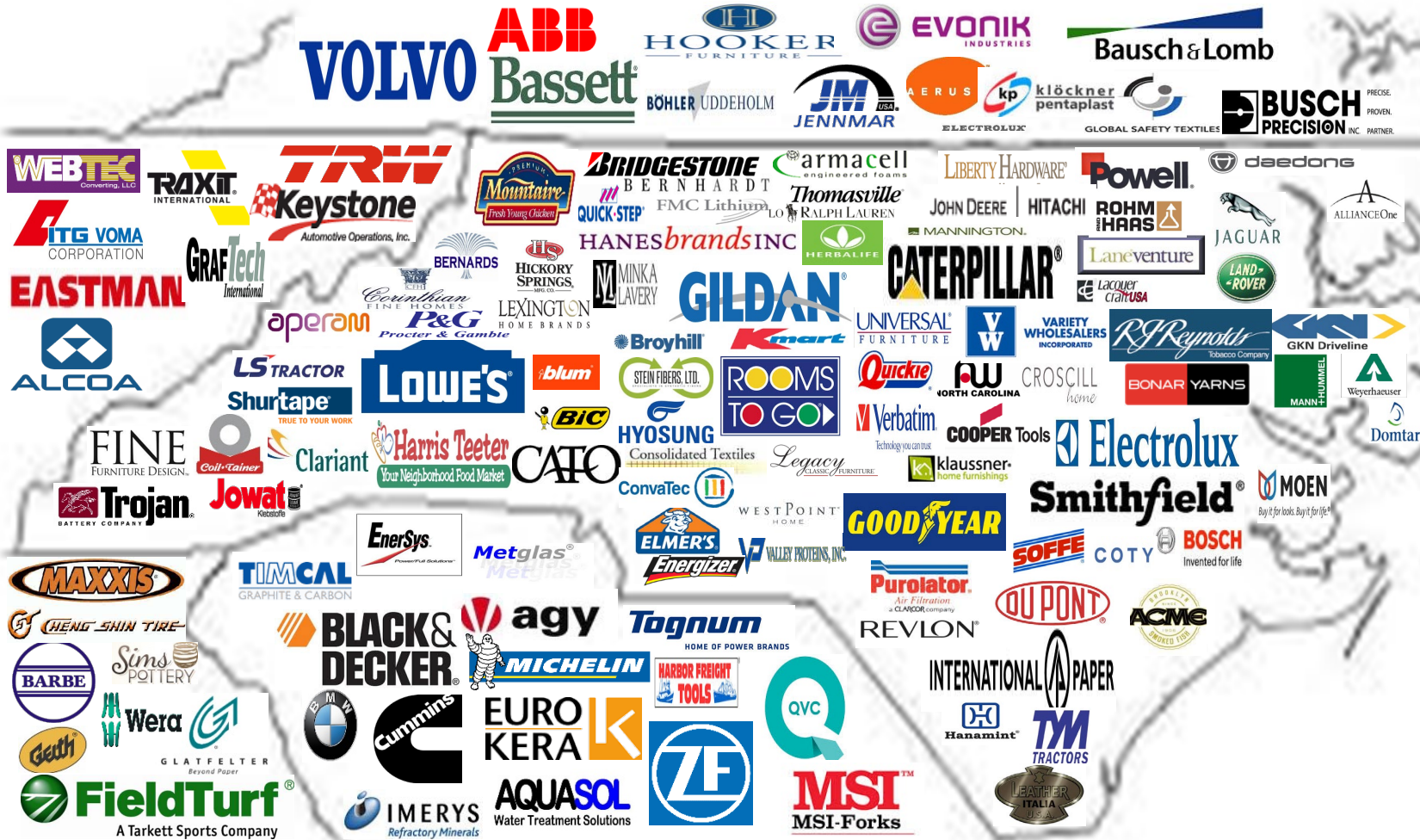
- Direct rail to Charlotte
- Direct, future access to CCX hub
- Premier service over other southeast ports

An aerial photograph of a large container ship docked at a port. A massive gantry crane, with "PORT OF WILMINGTON" written on its side, is positioned over the ship. The ship's deck is filled with stacks of colorful shipping containers. The water is calm, and the shoreline with some vegetation is visible in the background. The entire image has a blue color cast.

Summary



Imagine Your Future Here



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