





**Agenda** 

Who We Are

What We're Doing

What's Next

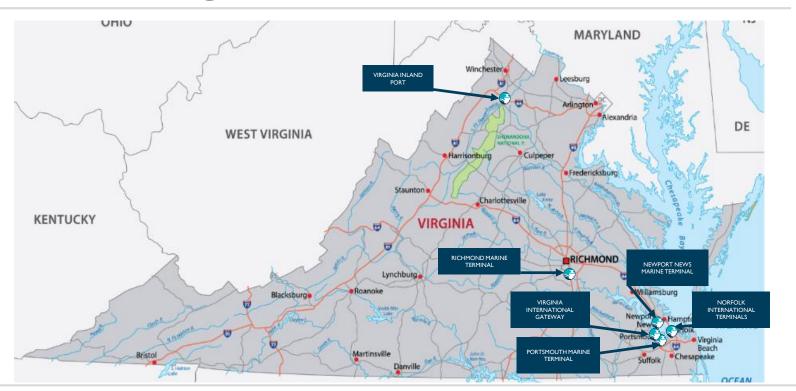


# The Port Of Virginia Is A Gateway For Global Commerce



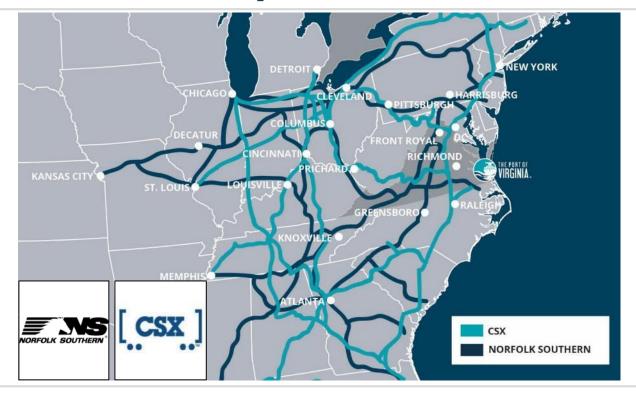


# Port Of Virginia Terminal Locations





## **Quick Access By Rail**





## Positioned To Move The Country's Cargo

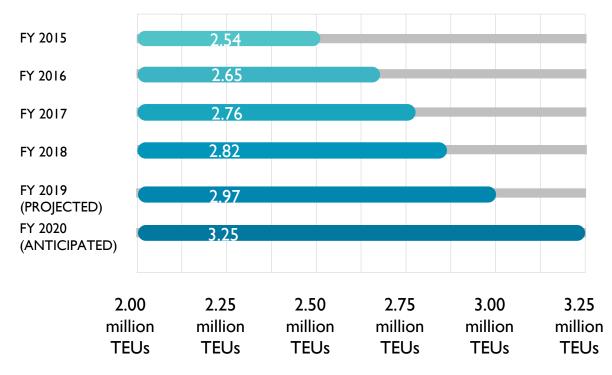






#### **RECORD-SETTING VOLUMES**

We are handling more than 400,000 TEUs more than we did in FY2015 – a 15% increase driven by our infrastructure investments.



# BUILDING THE CAPACITY FOR GREATNESS





DEEPER SAFER 2020

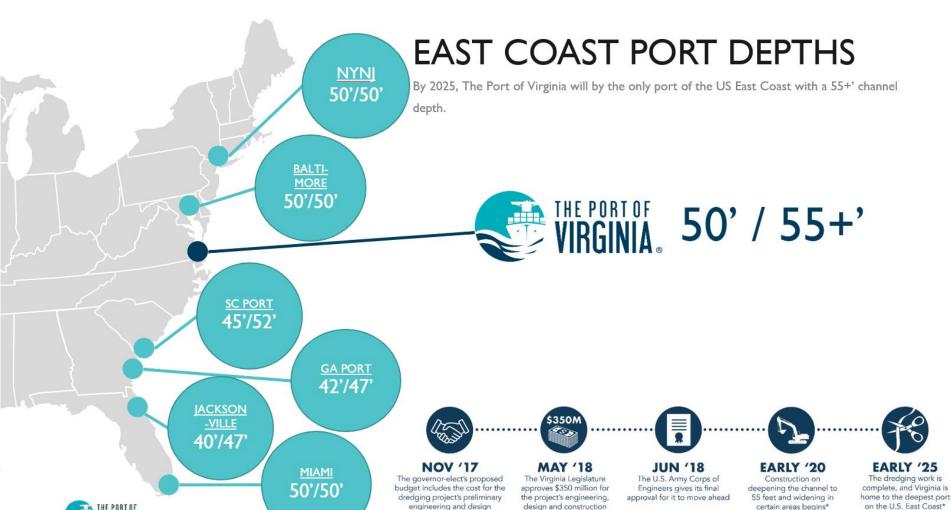
# **Norfolk Harbor Navigation Improvements**

- Completed the GRR 6 Months Ahead of Schedule
- Chief's Report Signed (June 2018)
- Preconstruction Engineering and
  Design (PED) Complete in June 2019
- Construction Start January 2020



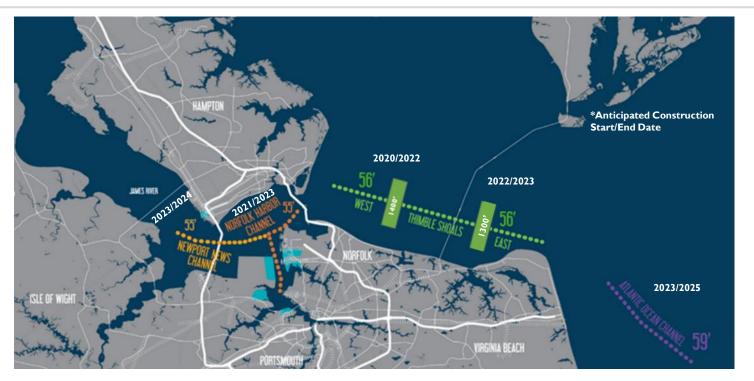
We're doing this faster than any other navigation project **EVER!** 





\*Proposed schedule

# **Norfolk Harbor Navigation Improvements**







## **Terminal Expansion Facts**

- Phase I complete: July 2007
- Initial Capacity:
  - I.44M TEU/Year
  - 700,000 Containers
- Terminal Specs:
  - Operating Acreage: 231 Acres
  - 3,100 feet of wharf
  - 12,000 feet of Intermodal Rail
  - 8 STS Cranes
  - 16 Container Stacks

- Phase II Completion: Spring 2019
- Expansion Capacity:
  - Total 2.63M TEU/Year
  - Total I.2M Containers
- Terminal Specs:
  - 60 additional Acres
  - 650 additional feet of wharf
  - 8,000 additional feet of Intermodal Rail
  - 4 additional STS Cranes
  - 13 additional Container Stacks







#### **VIG Rail Yard Expansion Overview**

- Added 8,000 LF On-Dock Rail
- CRMGs with rotating trolley
- Decoupled operation
- UTRs with cassettes transfer boxes
  between ASC yard and Rail Transfer Area
- Rail Portal





# VIG Rail Yard Expansion Design Challenges

- Maintaining Pre-Construction Capacity
- Reconfiguration of rail tracks to suit cranes/crane rails
- Alignment of rail track turnouts
- Designing Without Actual CRMG Loads
  - Crane Rail Tie Spacing
- Cable Trench with Panzer Belt at Crossings
- Rail Inventory Portals





# VIG Rail Yard Expansion Construction Challenges

Maintaining Pre-Construction Capacity

Fast-Moving Project – No Time for

Rework

Drone Imagery





#### **Norfolk International Terminals**





# **NIT South Optimization**

- \$350 million investment
- Increases capacity by 400K lifts
- New ASC cranes similar to VIG
- Completion: 2020





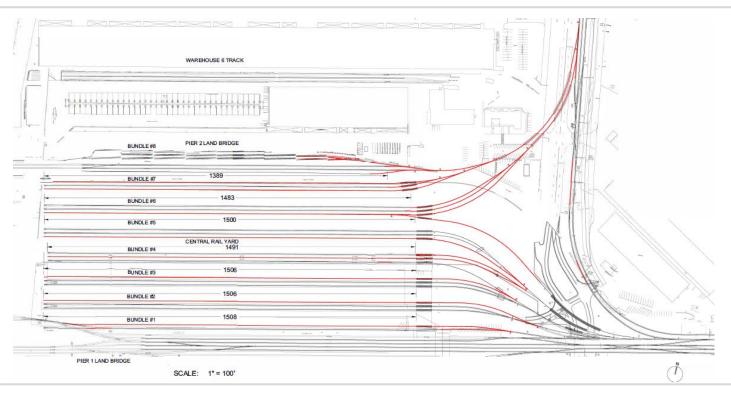
#### **NIT Central Rail Yard Expansion**

- Rail Enhancement Fund (REF) Grant
  - \$20M
- Adds 12,000 LF Working Track in current footprint
- Conversion to RTG operation from reach stackers
- RTG's from VIG





#### **NIT CRY Expansion Layout**





# NIT CRY Expansion Design Challenges

- Maintaining Operations
- Avoiding Costly Infrastructure Relocations

Pavement Rehabilitation/RTG Runway

Creation

Lighting

Steel Ties

Rail Inventory System

