

Global and Local Freight Movement

Eastern Border Transportation Coalition

Stephan Pezdek
Freight Planning Manager

05.08.2024



**PORT
AUTHORITY
NY NJ**

AIR LAND RAIL SEA

Discussion Overview

- Port Authority of NY and NJ
- GMAP
- Global Freight Landscape
- Freight Movement in the Region
 - Import Move
 - Export Move
- Questions



Port Authority Overview

- Since 1921, the Port Authority has moved the
- region forward by managing and maintaining vital trade and transportation links in the following key business areas:
 - Aviation
 - Tunnels, Bridges & Terminals
 - PATH
 - Port
 - World Trade Center
- Serve the broader region of 112m people (US and Canada)

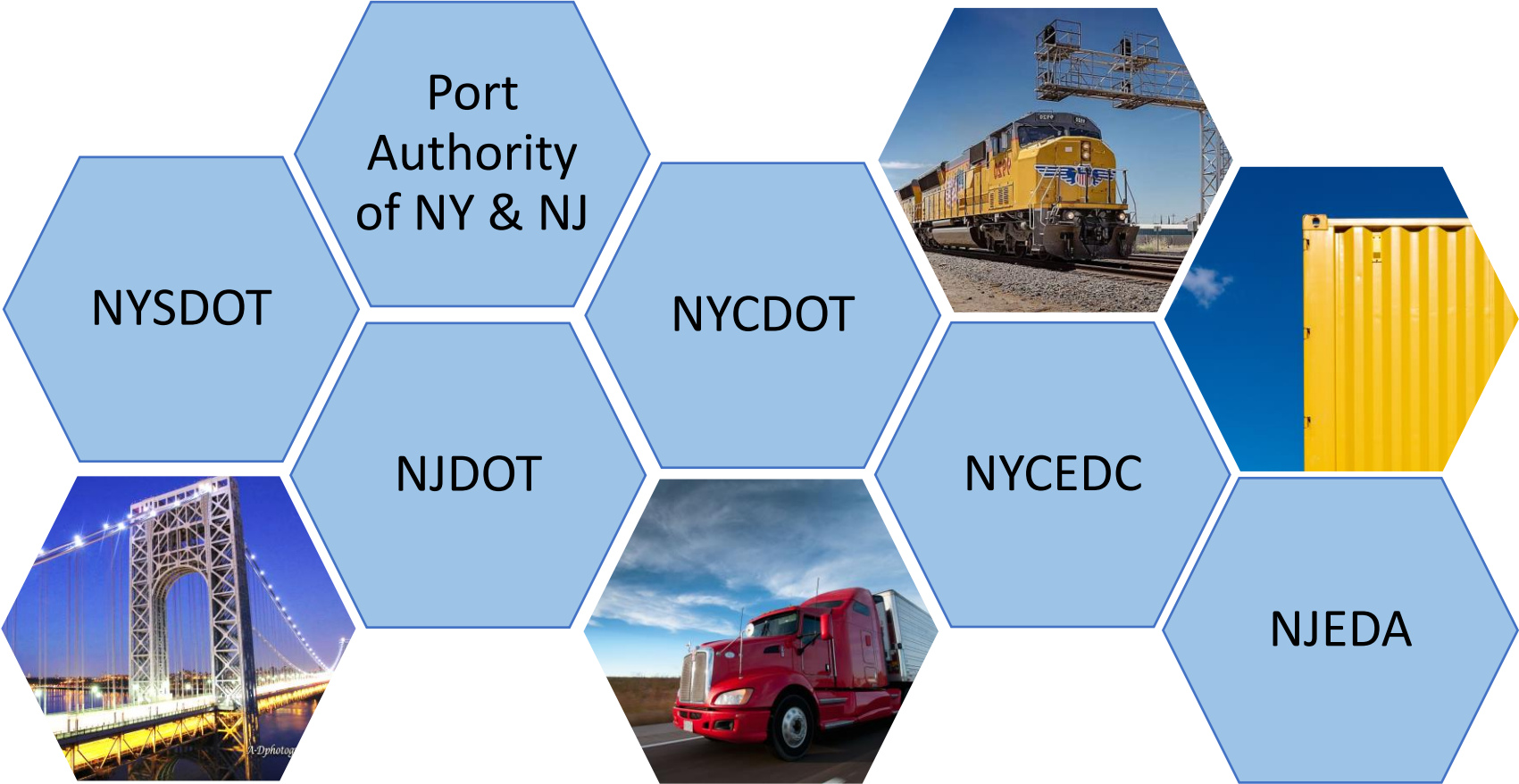


Port Authority – Port Facilities

- Landlord port model
- Largest port on East Coast
- 2nd largest in the nation (2022)
- 3,000 acres of waterfront property
- Multi-purpose port: containers, auto, cruise, bulk (dry & liquid)
- Port-wide intermodal rail network



GMAP - Members

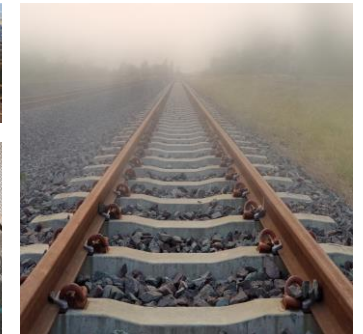
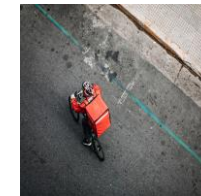
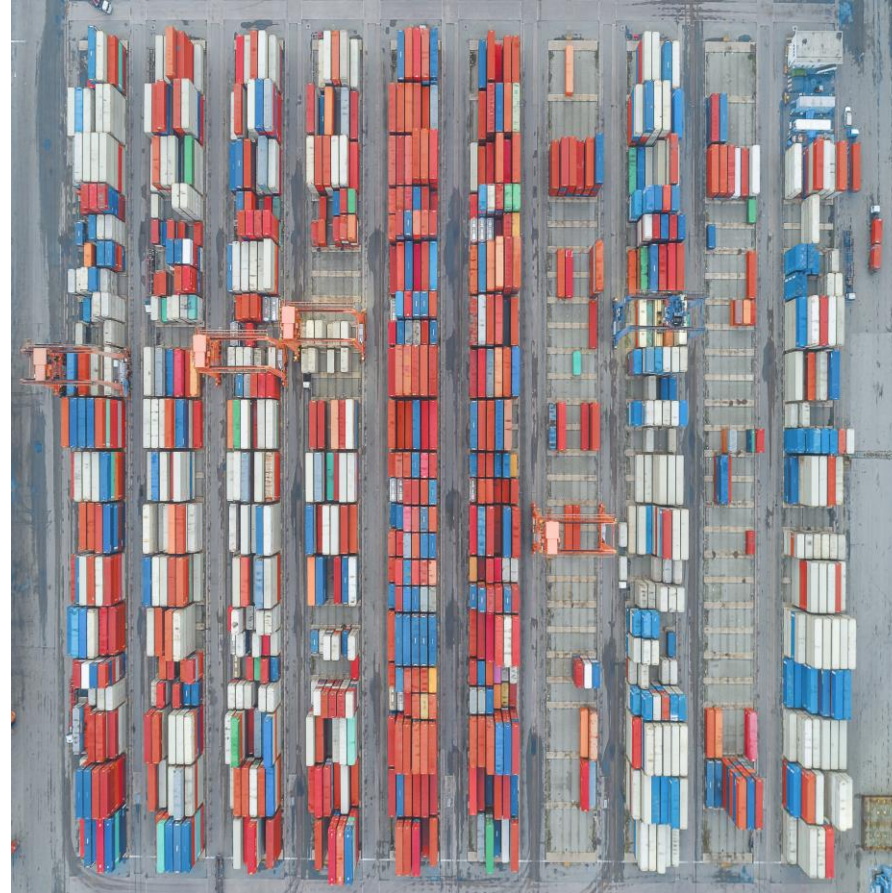


GMAP: Goods Movement Action Program

Looking at the Regional
Freight Network Including:

- Maritime
- Air Cargo
- Rail
- Truck
- Last Mile
- Warehousing
- Labor
- Energy

Looking Regionally
Not Just at New York Metro
Region

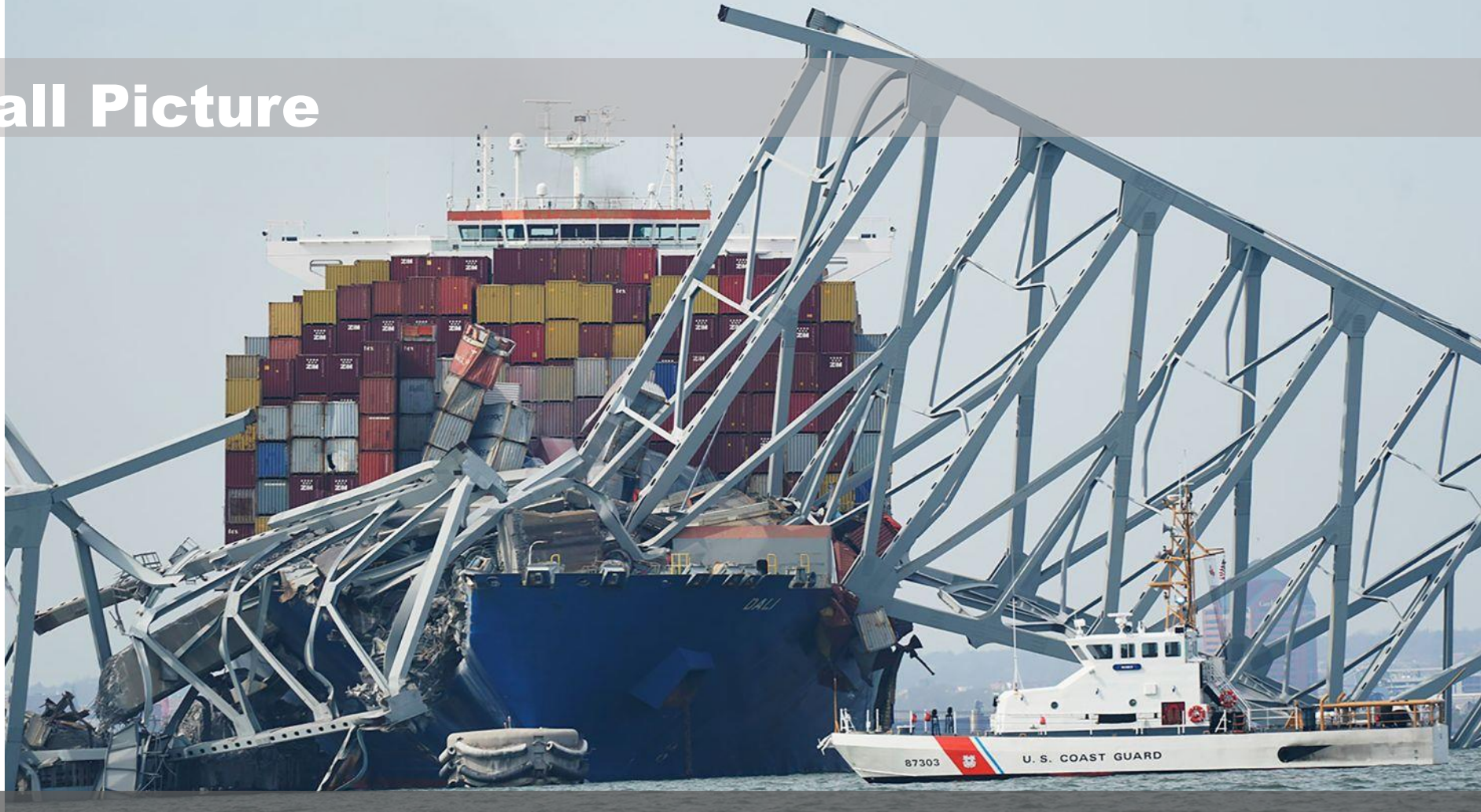




Global Freight Landscape



Overall Picture



[Federal government braces for a long – and expensive – road to recovery from Baltimore bridge collapse | CNN Politics](#) – Steve Helber/AP

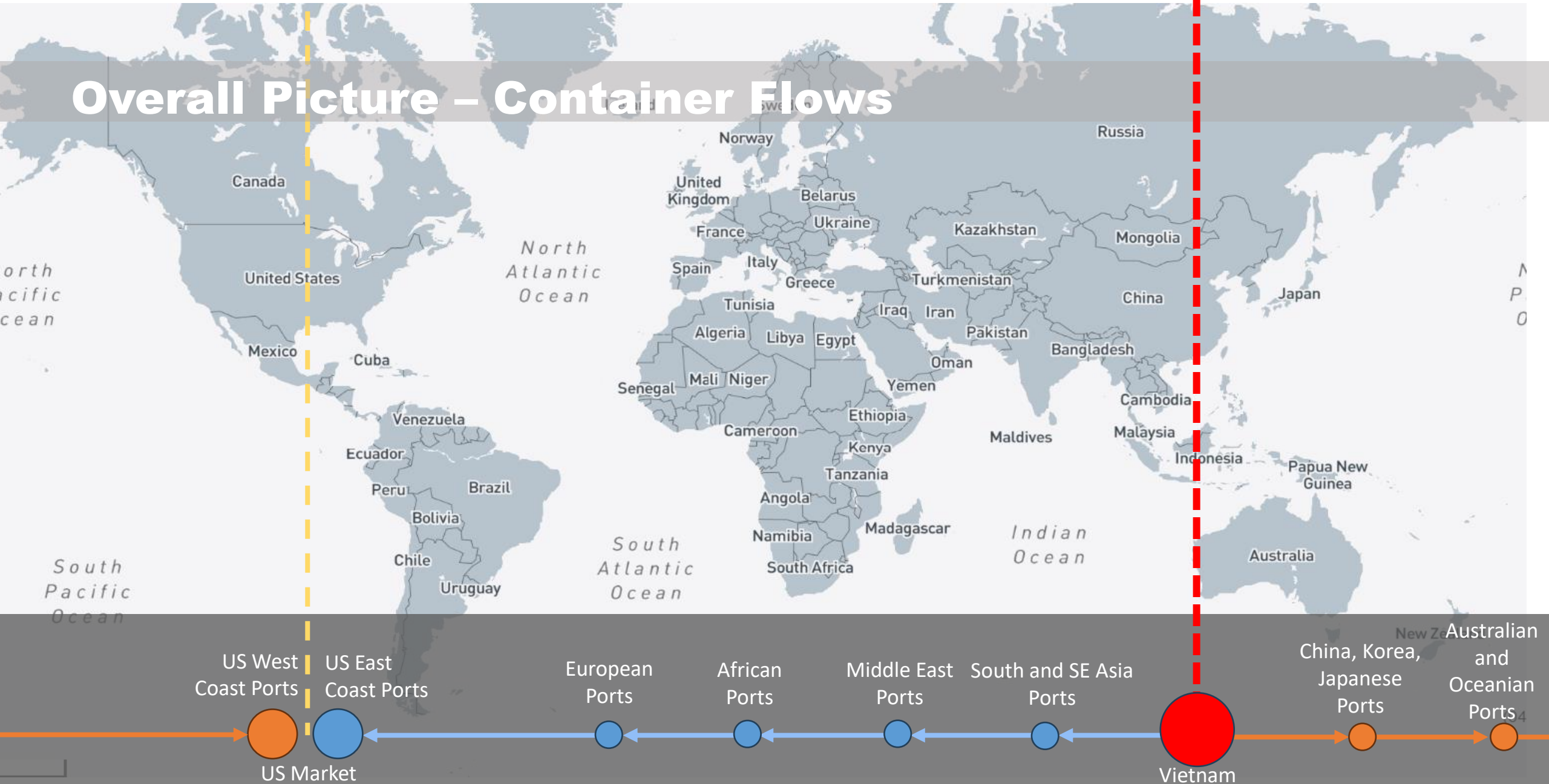
Broad Interconnected Economies

Manufacturing Location Can Influence Shipping

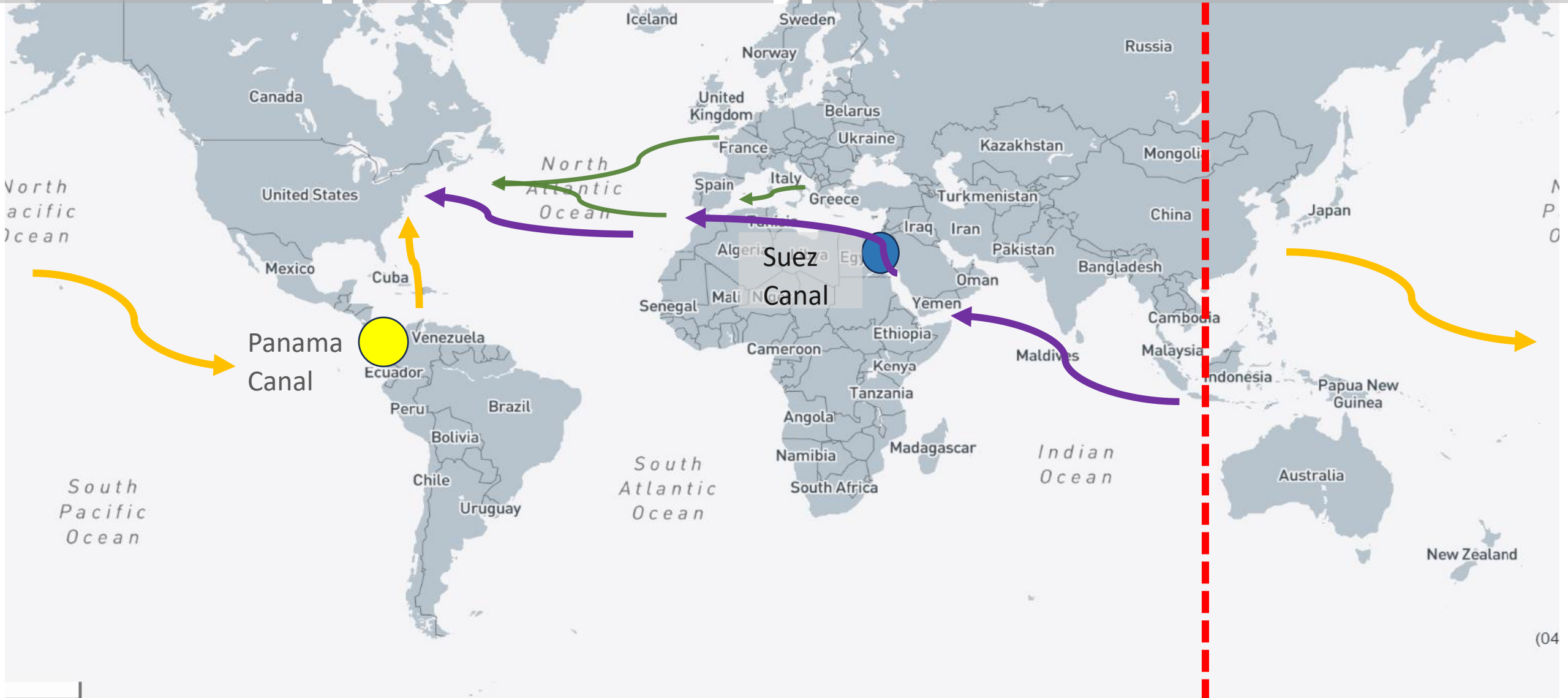
Local Challenges Have a Global Ripples

Speed, Weight, Value, and Sensitivity Determine Mode of Movement

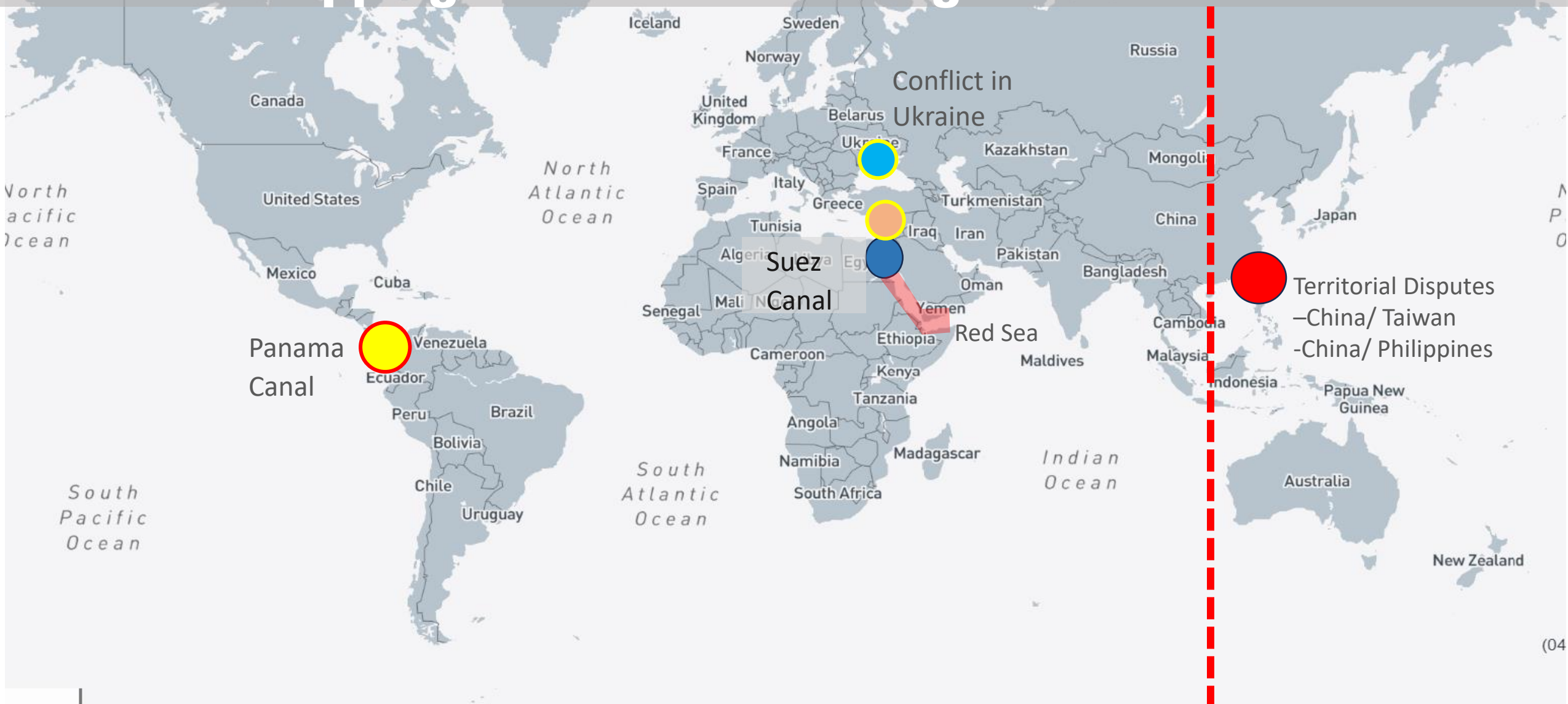
Overall Picture – Container Flows



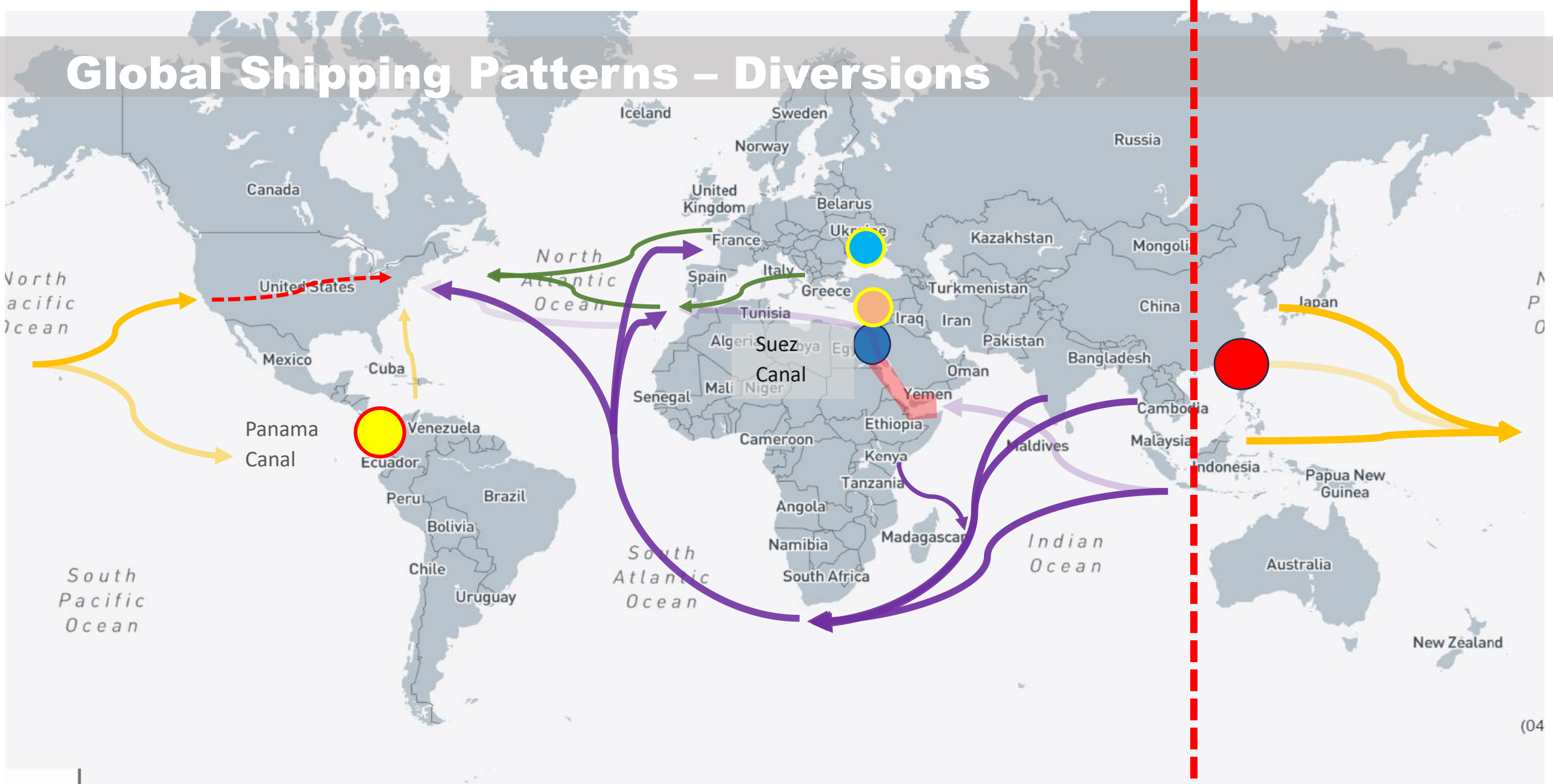
Global Shipping Patterns – Typical



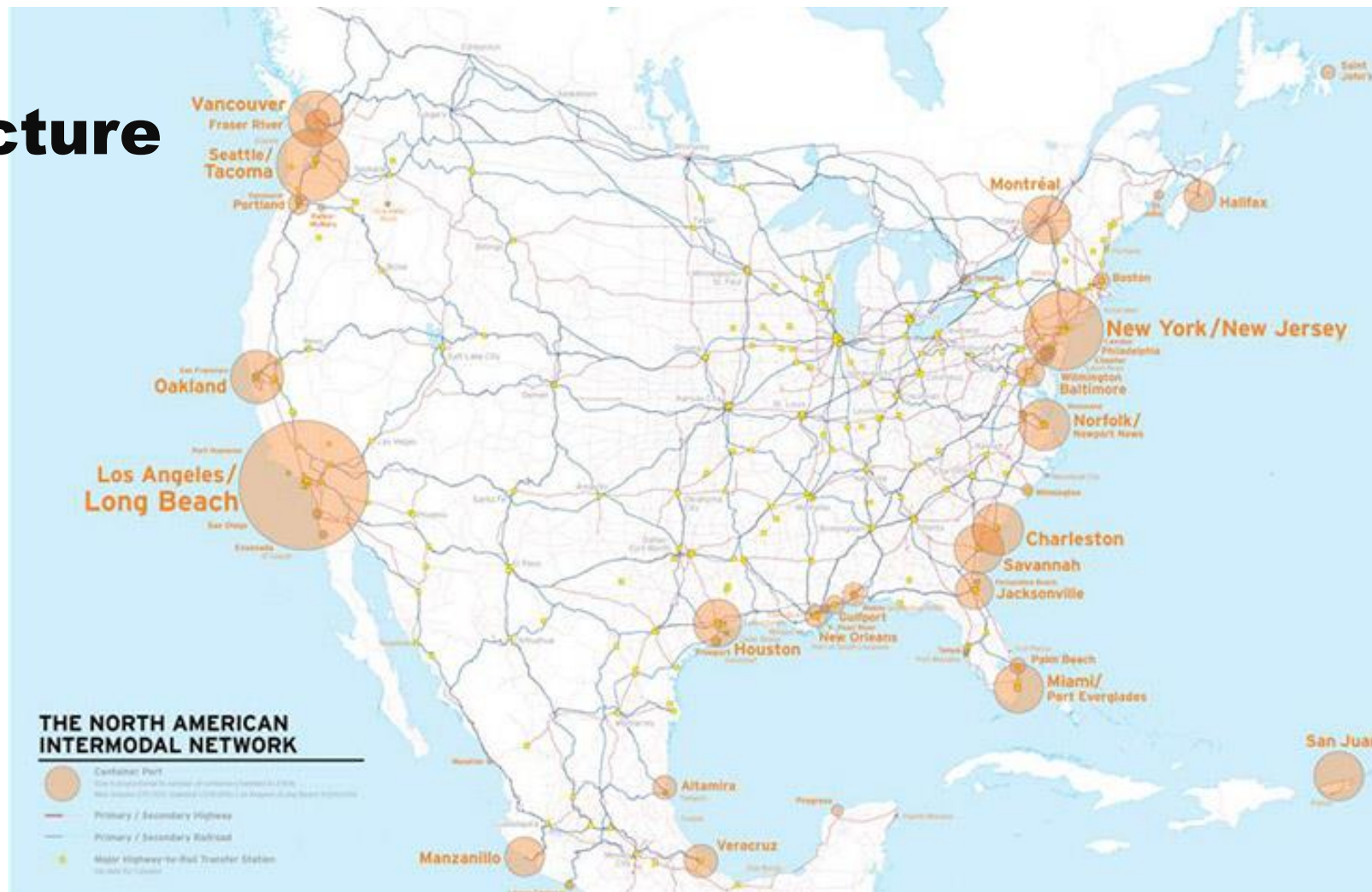
Global Shipping Patterns – Challenges



Global Shipping Patterns – Diversions



Overall Picture

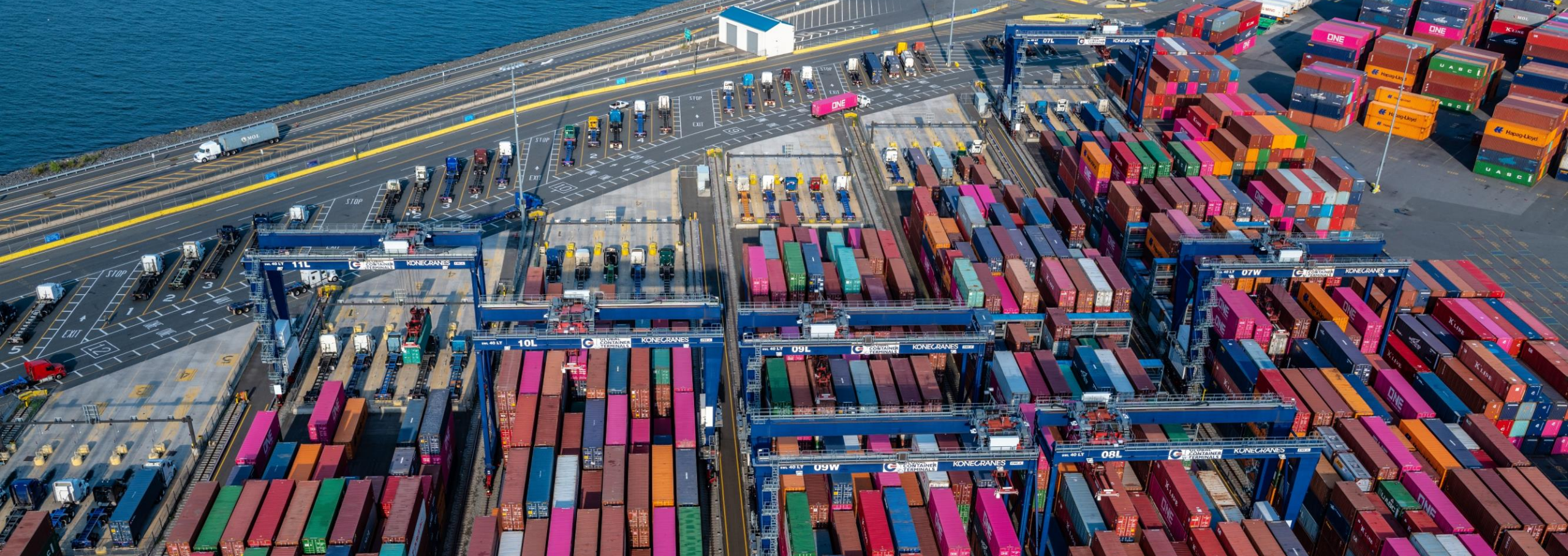


Movements Inland
Via Multiple Modes

Highway and Rail are
Key for Intermodal
Moves

Bulk, Liquids, and Raw
Materials Use Rail and
Water More

Challenges in One Mode
Can Impact Others



Freight Movement in the Region

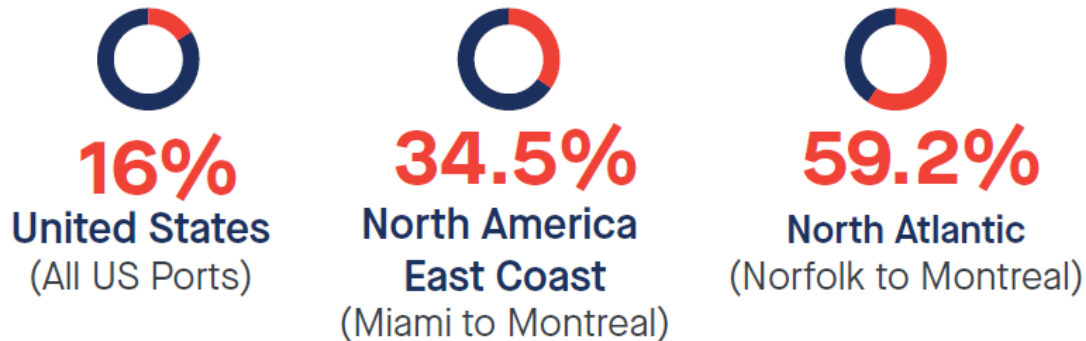
How things move from the port to you

Freight Movement - Regional

The Port of New York & New Jersey is the largest container port on the U.S. East Coast and second largest in the nation. Worldwide, it is the 23rd largest.

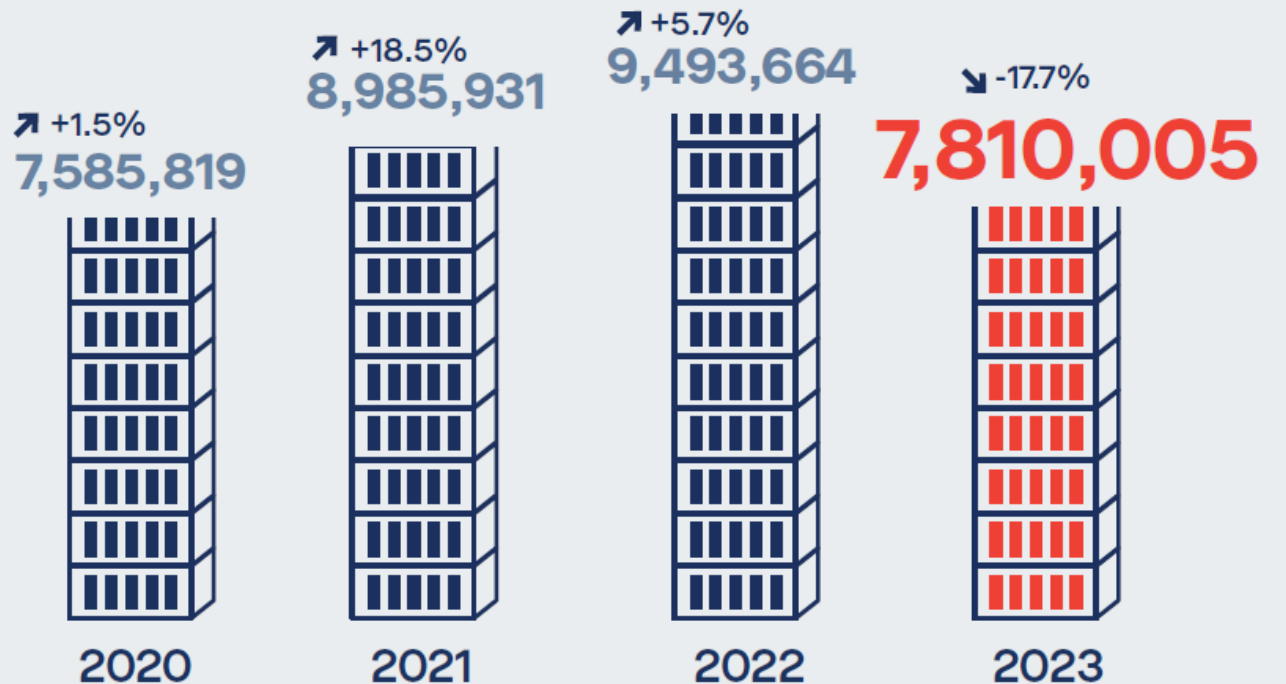
Market Share

(2023, Loaded Import TEUs)

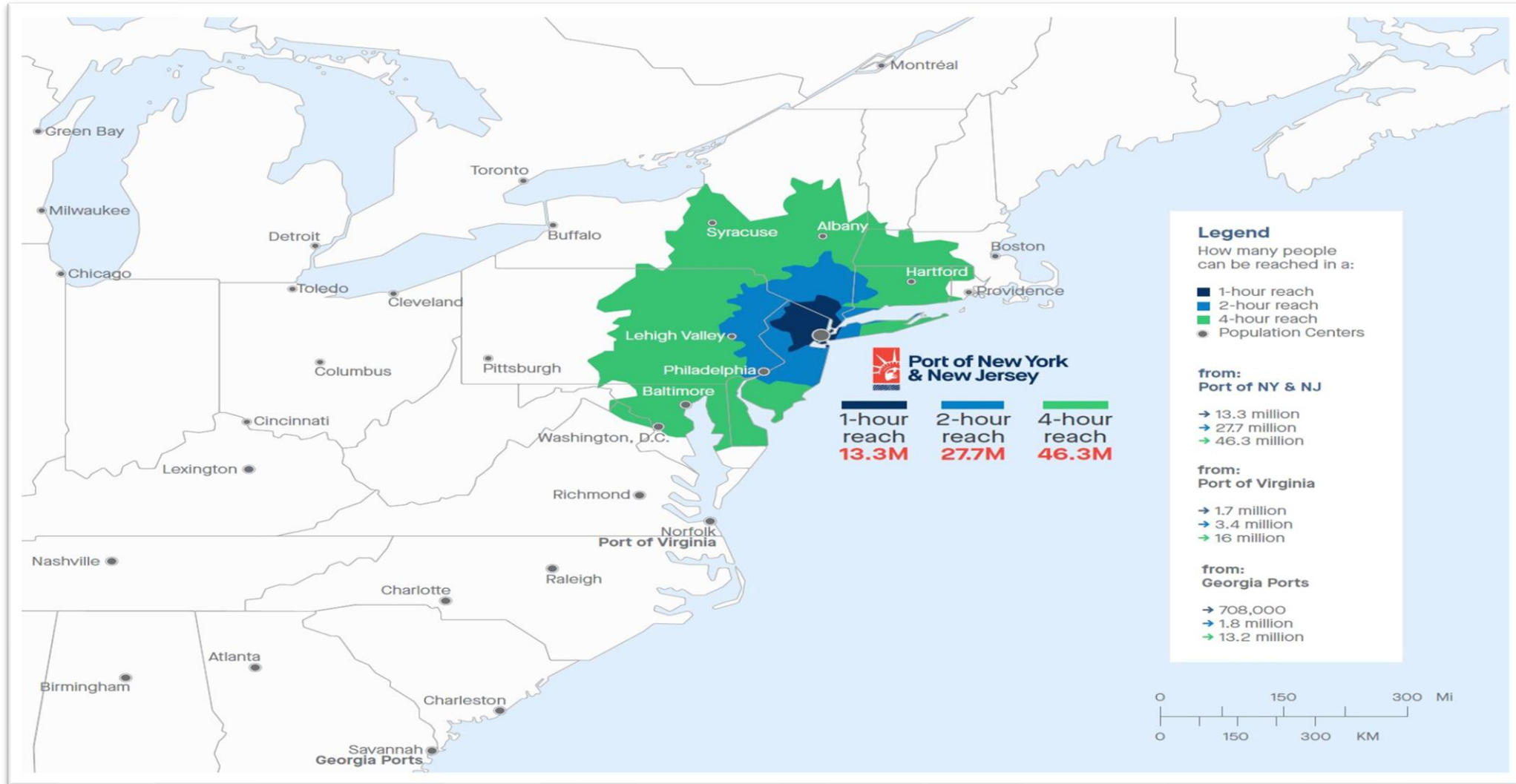


Cargo Volumes

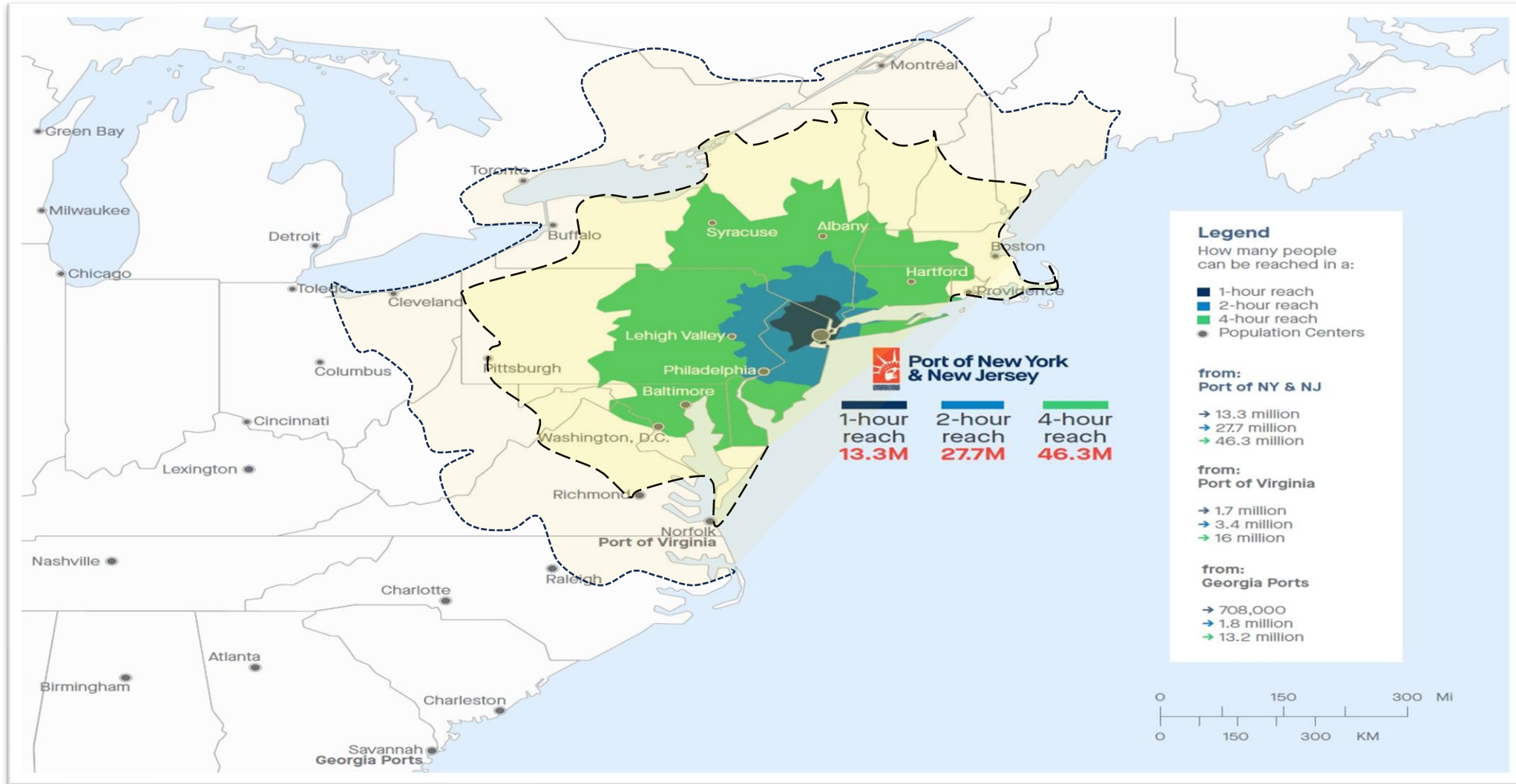
(by TEU Volume)



Freight Movement - Regional

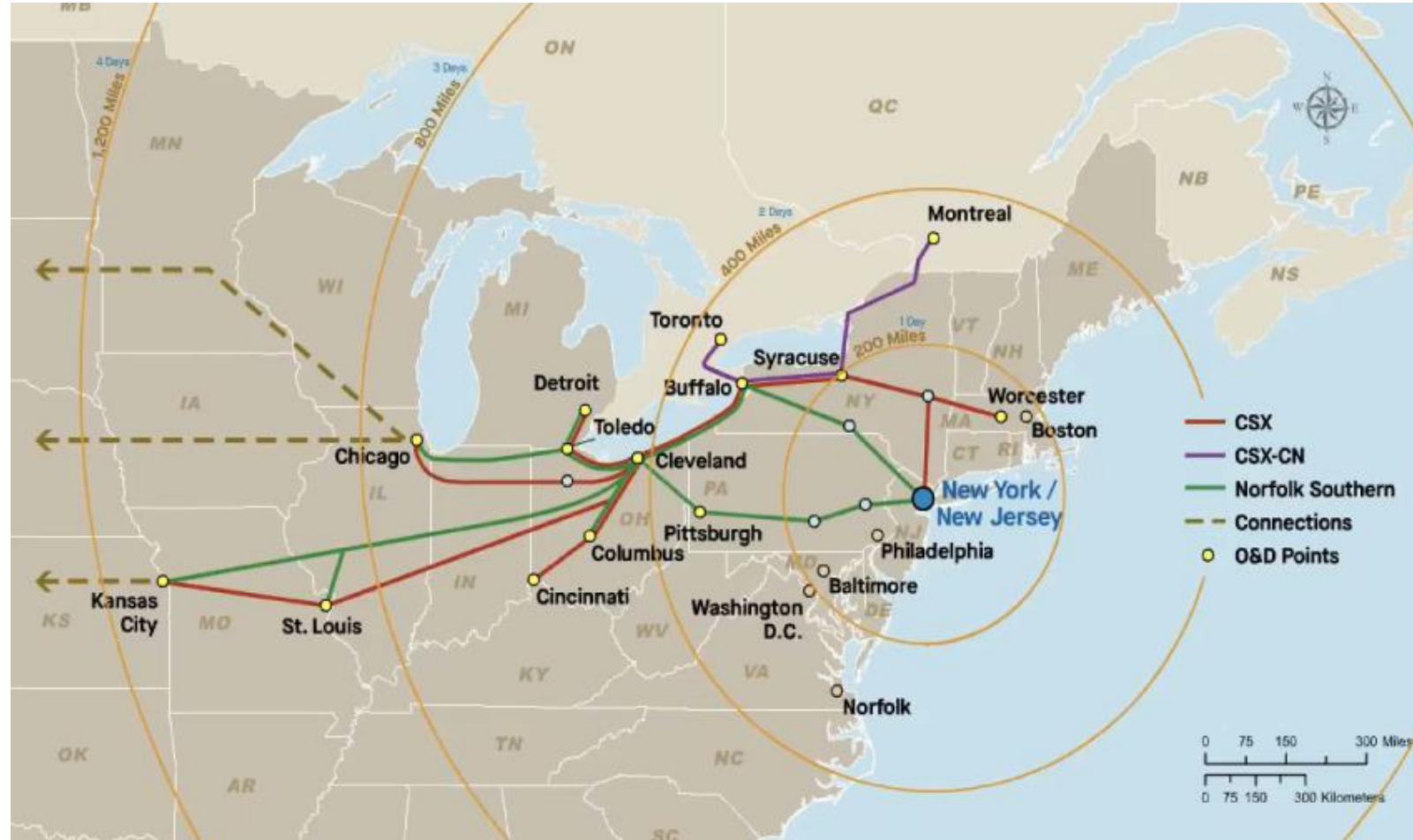


Freight Movement - Regional



Freight Movement - Regional

- Four on-dock ExpressRail facilities serving all six marine terminals
- Two Class I railroads, CSX and Norfolk Southern
- 1.5 million annual lift capacity with over 50 destinations
- 706,774 rail lifts in 2022



Freight Movement - Regional

Top Commodities Moved Through the Port of New York and New Jersey

Imports (TEUs)

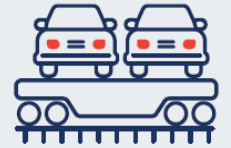
Commodity	2023
Furniture	488,212
Appliances, machinery & parts	324,610
Plastics and articles thereof	292,747
Beverages, spirits and vinegar	202,589
Electric machinery & parts	199,979
Vehicles & parts	147,828
Articles of rubber	131,997
Articles of iron or steel	121,862
Apparel and accessories, knit	120,887
Toys, games & sport equipment	112,694

Exports (TEUs)

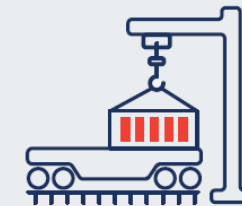
Commodity	2023
Vehicles and parts etc	265,936
Wood pulp (waste & scrap)	205,716
Plastics and articles thereof	76,018
Wood and articles of wood	58,036
Appliances, machinery & parts	52,880
Food industry residues & waste	40,969
Aluminum and articles thereof	36,781
Electronics	28,930
Iron and steel	28,306
Oil seeds, grain, seed, fruit, plant	26,347



Autos
366,796



Autos by Rail
42,605



Rail Lifts
629,193

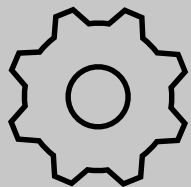
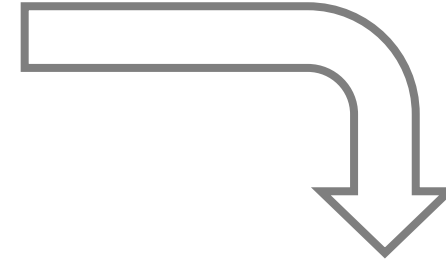
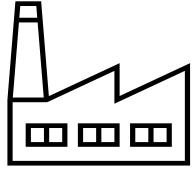
Scenario 1 – Imports Delivered to Market



A screenshot of the Hockey Life website. The page displays a product titled "LONESTAR PRO HOCKEY LIFE OFFICIAL PUCK - SINGLE" for \$2.99. The product image shows a black puck with the "Hockey Life" logo. The page includes a search bar, navigation menu, and a "Quantity" selector set to 1. A red "ADD TO CART" button is prominent. Below the product, there are icons for "Free Pick Up", "Free Shipping", and "Free Returns". A "Frequently Bought Together" section shows a puck, a puck case, and a puck bag. The total price is listed as \$146.97 (with a crossed-out price of \$189.97). A red "ADD SELECTED TO CART" button is at the bottom.

Delivery to Old Chelsea, QC!

Scenario 1



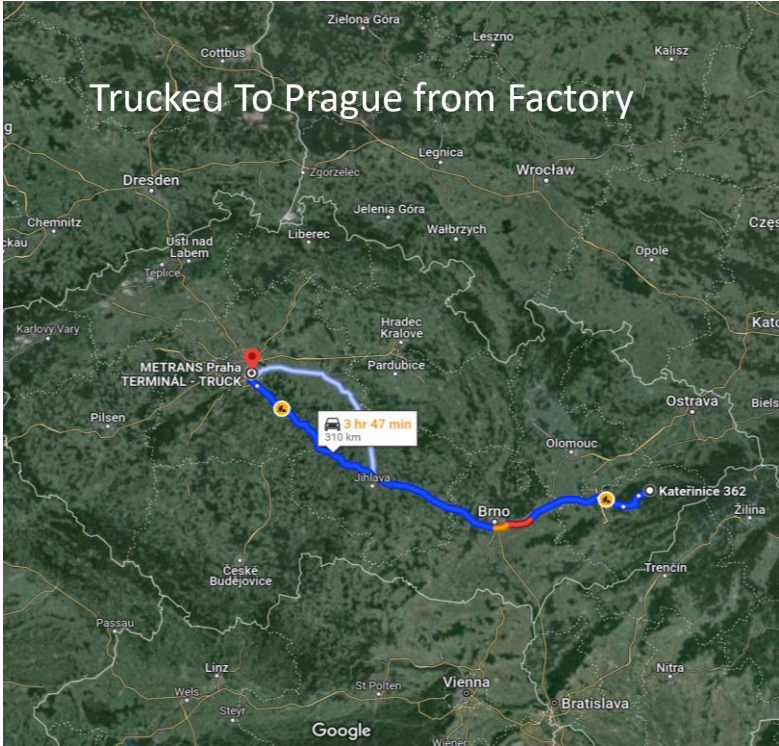
Typically Manufactured
Far From the Market

Product Ordered, Manufactured,
and Shipped Long Before Its Sold

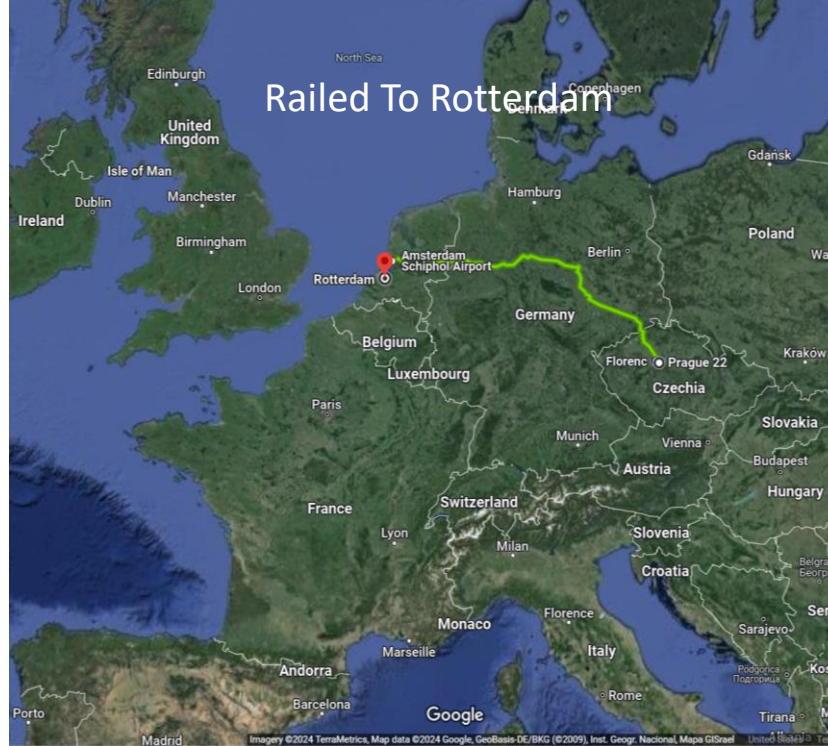
Boxed and Packed into a
Container to be Moved Across
the World

Scenario 1

Trucked To Prague from Factory



Railed To Rotterdam

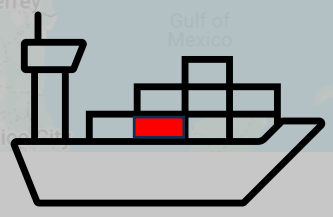
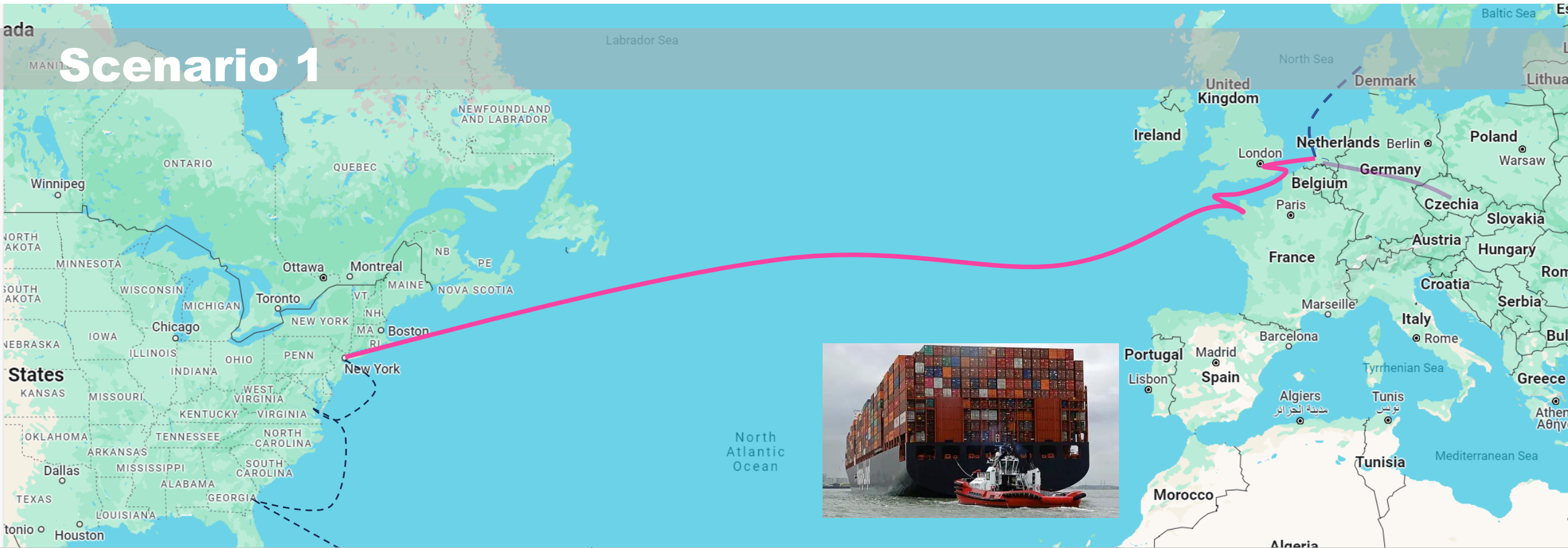


May Dwell at a Storage Yard
or Shipping Terminal for
Extended Time

Eventually Lifted on to Ship

Container Ships From Europe
To US East Coast can Range in
Size

Scenario 1



Majority of Cargo Coming From Europe Come to the US East Coast

Ship May Make Multiple Port Stops Along the Way to Pick-up and Drop-off Cargo

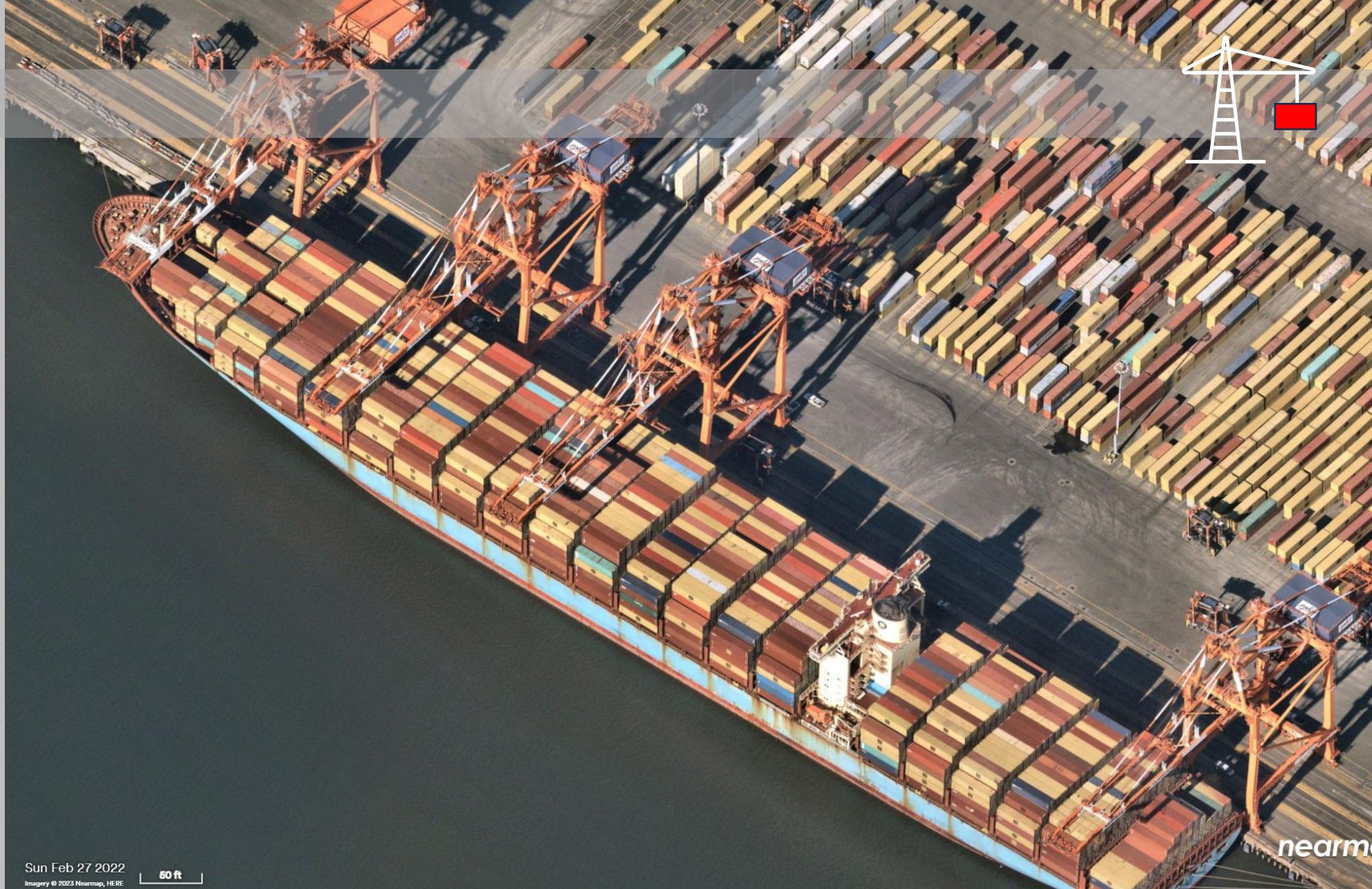
Port to Port Moves Can Take 12-20 Days Depending on Congestion, Itinerary, Sea Conditions

Scenario 1

Unloaded At Port And Held For Pick-up

At The Port The Container Can Be Moved By Truck (Drayed), Transferred To Rail, Or Transferred To Barge

Typically, Can Be Picked Up The Next Day, Depending On Arrival Time and Time to Unload



Sun Feb 27 2022
Imagery © 2023 Nearmap, HERE
50 ft

Scenario 1



ImportGenius

[Home](#)

[How it works](#)

[Pricing](#)

[Contact us](#) ▼

GUFEX S.R.O. RECORDS

GET A COMPLETE SUPPLIER HISTORY

UPDATED: 2022-03-04

[OVERVIEW](#)

[SHIPMENTS](#)

[IMPORTERS](#)

[ABOUT](#)

TOTAL IMPORTERS

2

1M 3M 6M 1Y 3Y [ALL](#)

2006-11-01 - 2022-03-04

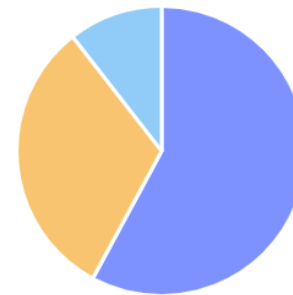
TOP TRADING PARTNERS



LEGEND

- PROGUARD SPORTS, INC. 13525 FENWAY
- PROGUARD APORTS INC.

TOP PORTS



LEGEND

- NORFOLK, VIRGINIA
- NEW YORK/NEWARK AREA, NEWARK, NEW JERSEY
- NEW YORK, NEW YORK

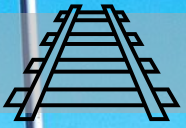
Scenario 1

After A Designated Amount Of “Free Time” A Container Will Accumulate Fees

Containers Are Rented And Are Often Taken Off-Site To Be Stored Till They Are Needed By The Customer

Sometimes When Shipping Less Than A Full Container, The Container Will Need To Be Sorted Then The Content Shipped Off To Their Next Stop

This Container Will Be Moved By Intermodal Rail A Day Or Two After Its Arrival



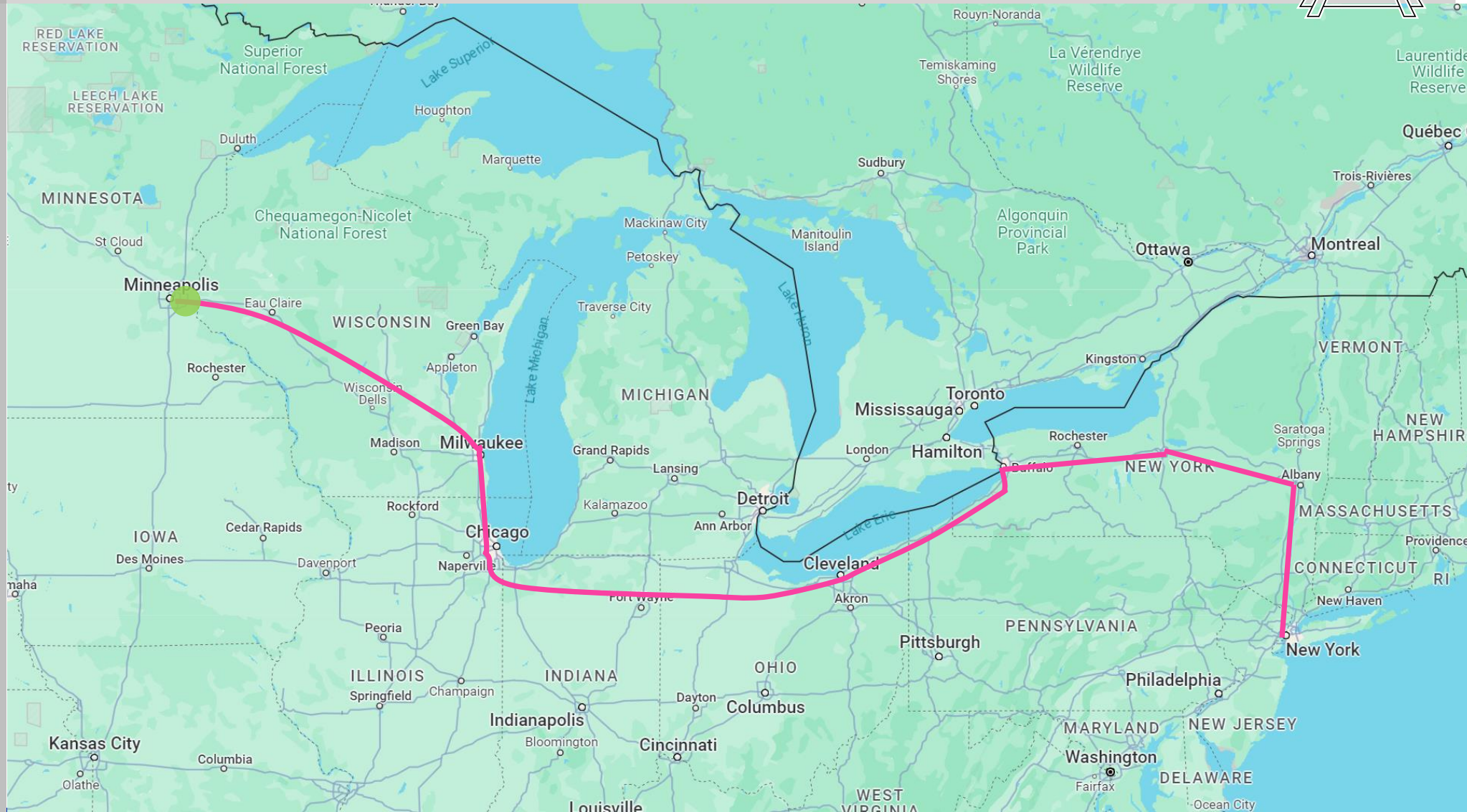
Scenario 1



Railed to Intermodal Yard to Await Pickup

Container Moved on Chassis to Distribution Warehouse

Once the Importer, The Items Are Inventoried And Can Be Held For An Extended Period Of Time



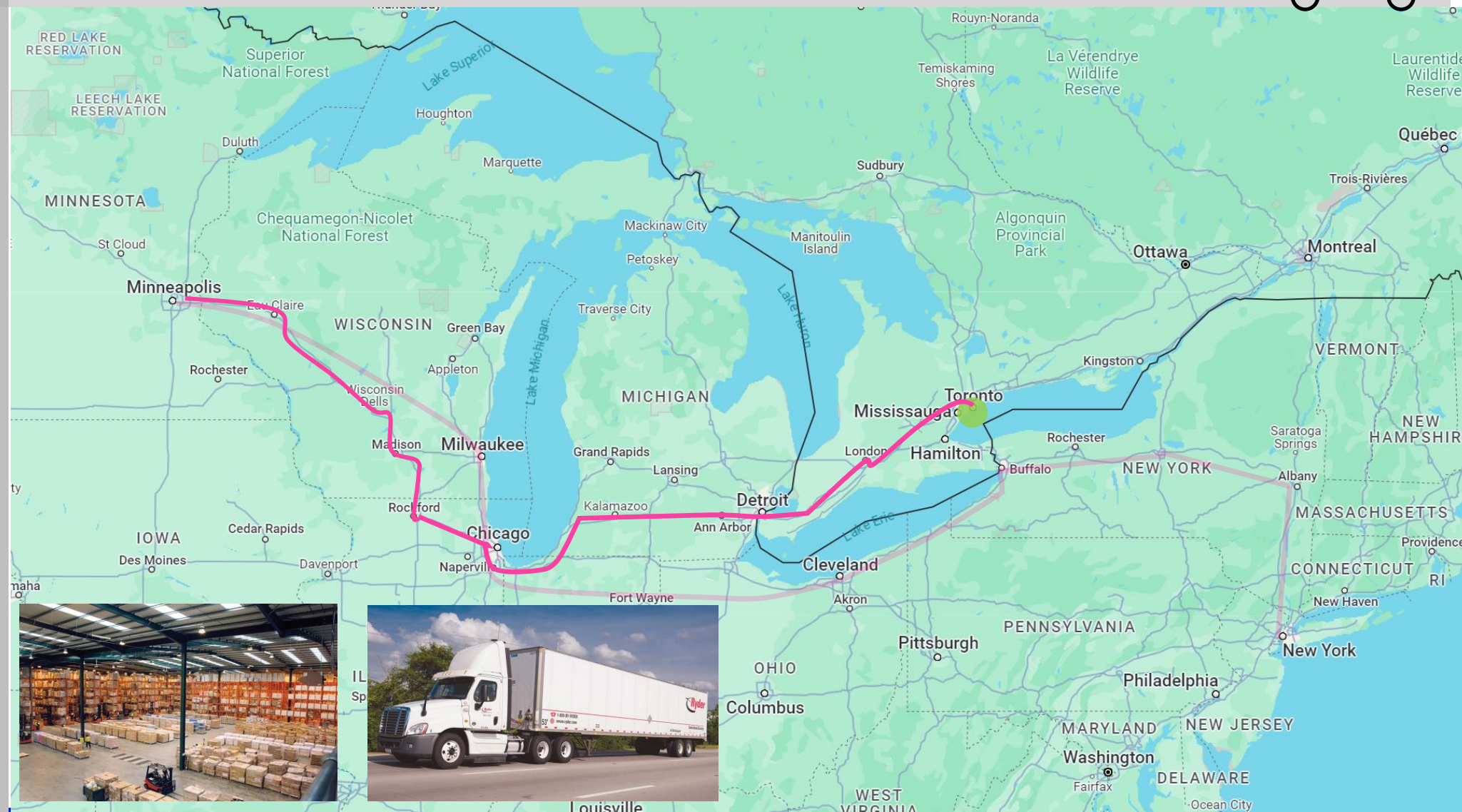
Scenario 1



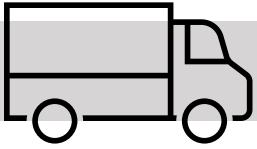
When A Buyer, In This Case A Retailer, Is Ready To Receive Their Order, The Items Will Get Sored Along With Other Products To Be Delivered In The Order

Order is Sent To the Retailer's Regional Distribution Hub in a 53' Trailer

Typically Delivered by an Over the Road Trucking Company (OTR)



Scenario 1

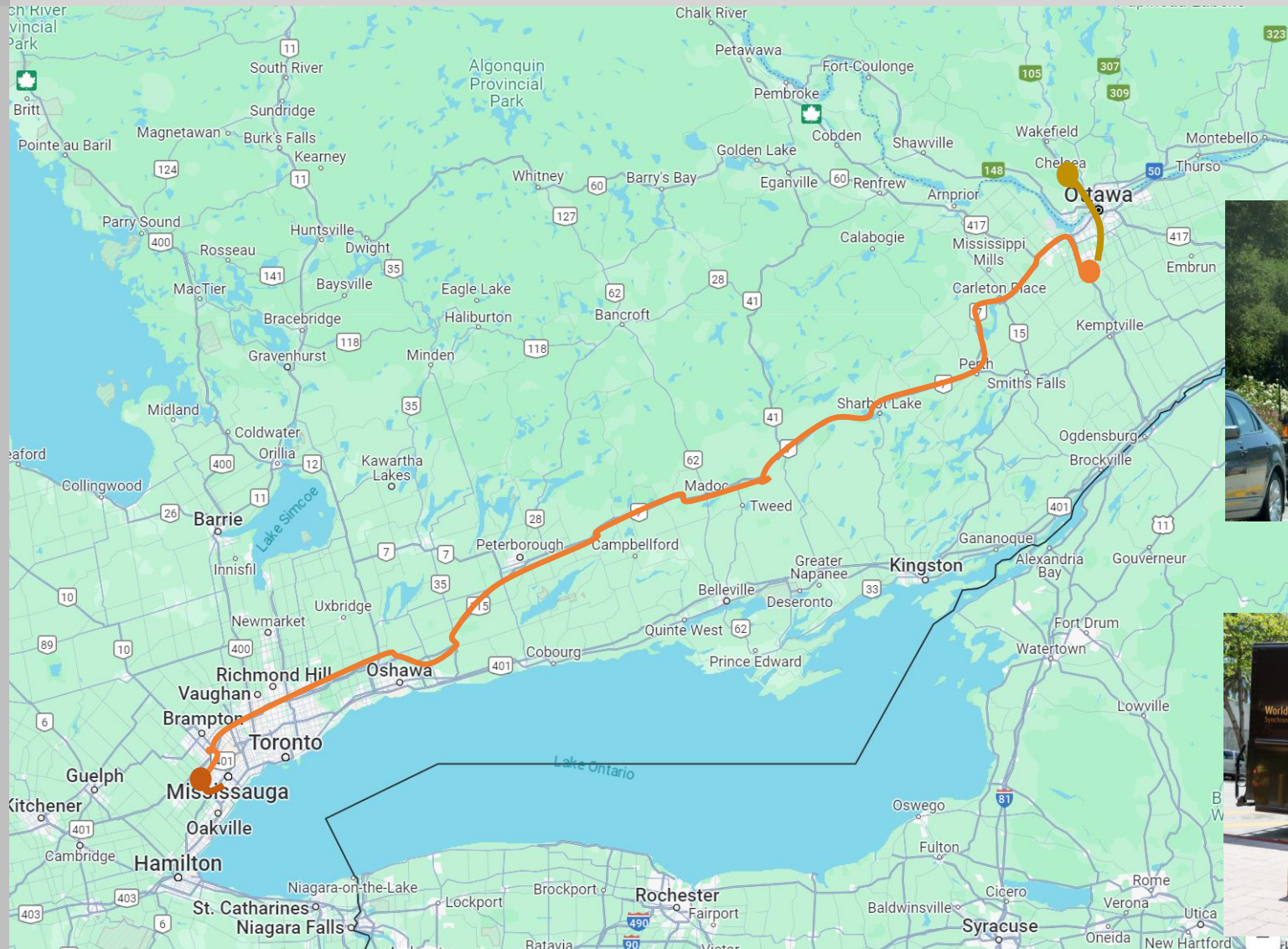


Having Been Received At
The Retailer's Warehouse
The Items Are Then
Ready For Sale

Once You've Ordered An
Item This Is When The
Item Will Be Boxed
Individually and Sent to
A Delivery Company

Delivery Service Will
Then Move The Item
Along Its Network – With
Regional Moves By Truck

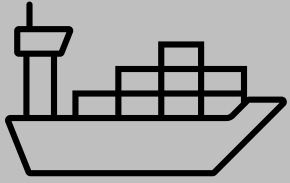
May Be Transferred
Several Times Before It
Arrives At A Final
Distribution Center
From There The "Last
Mile" Will Begin



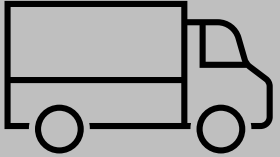
Regional Movement Truck



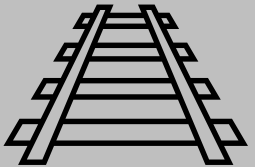
Scenario 1



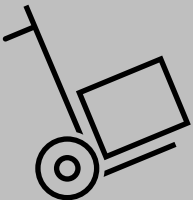
1 Container Vessel (approx. 4,500 miles)



6 Truck Moves (approx. 1,500 miles total)



2 Intermodal Rail Moves (approx. 2,000 miles)

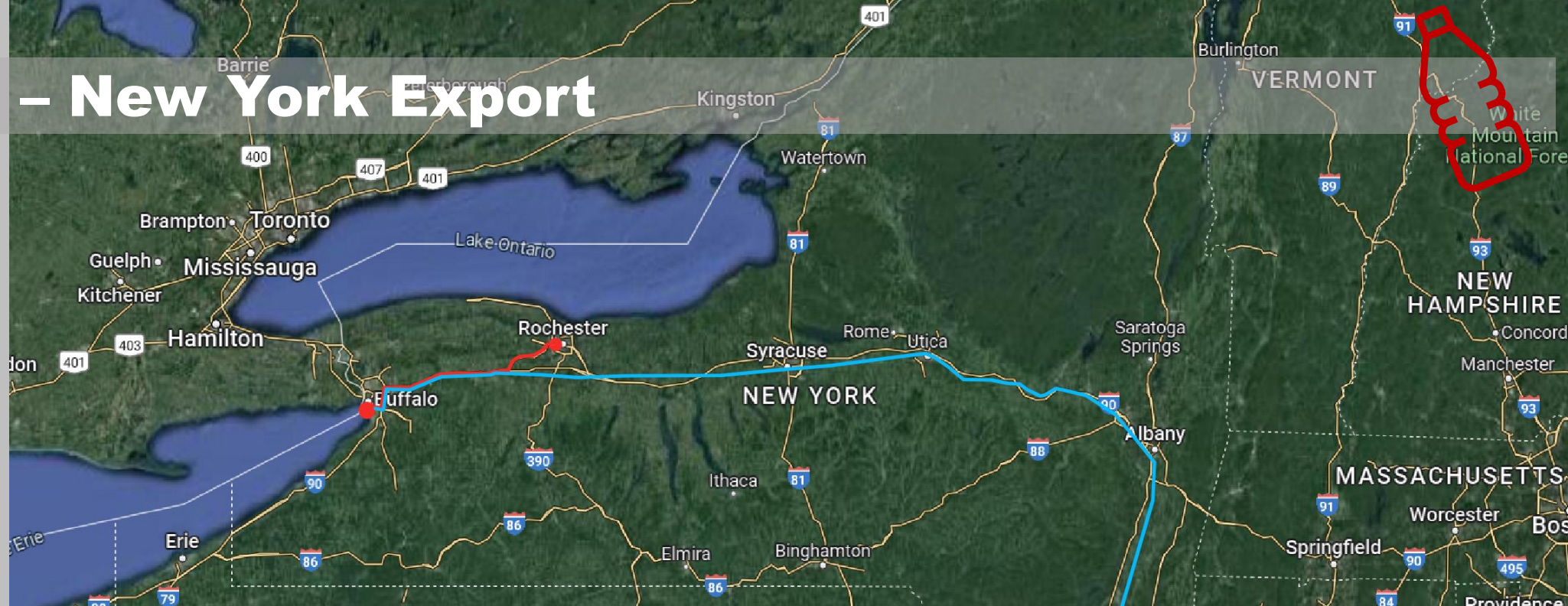


1 Last Mile Delivery Vehicle

Scenario 2 – New York Export

Central NY Based BBQ Sauce Maker is Shipping to Customers in Europe.

Departing From Rochester It Can Be More Cost Effective to Use Intermodal Rail Out of Buffalo than to Truck Product to the Port.



Conclusion

- Global to Local Challenges
- Freight Movement Across a Region
- Multiple Transportation Modes are Critical



Questions

Thank You!

Stephan Pezdek
spezdek@panynj.gov

