

Multi-year Expert Meeting
on Transport, Trade Logistics and
Trade Facilitation
9th Session

**Sustainable and resilient transport and
trade facilitation in times of pandemic
and beyond: key challenges and
opportunities**

12–14 July 2022

**Trends in supply chain and logistics -
challenges and opportunities**

Presentation by

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Professor
Hofstra University

Multi-year expert meeting on

TRANSPORT, TRADE LOGISTICS AND TRADE FACILITATION

Ninth session

12-14
July 2022
Palais des Nations, Geneva



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UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT
UNCTAD

Trends in Supply Chains and Logistics

Challenges and Opportunities for Resilience

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The synchronism of supply chain disruptions



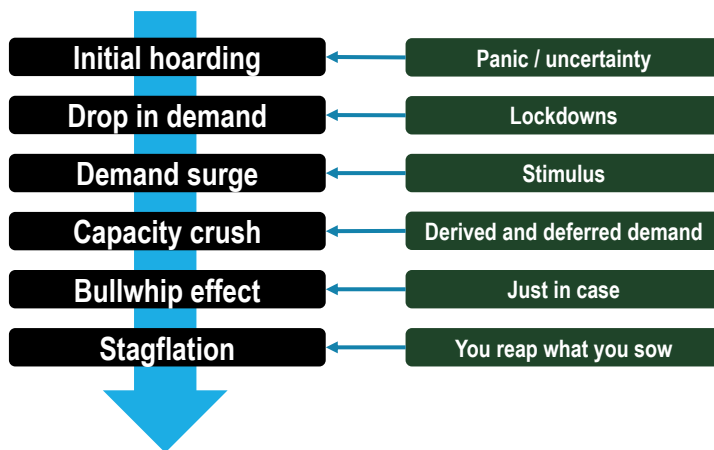
The Great Entanglement in port supply chains



Investing in port resilience

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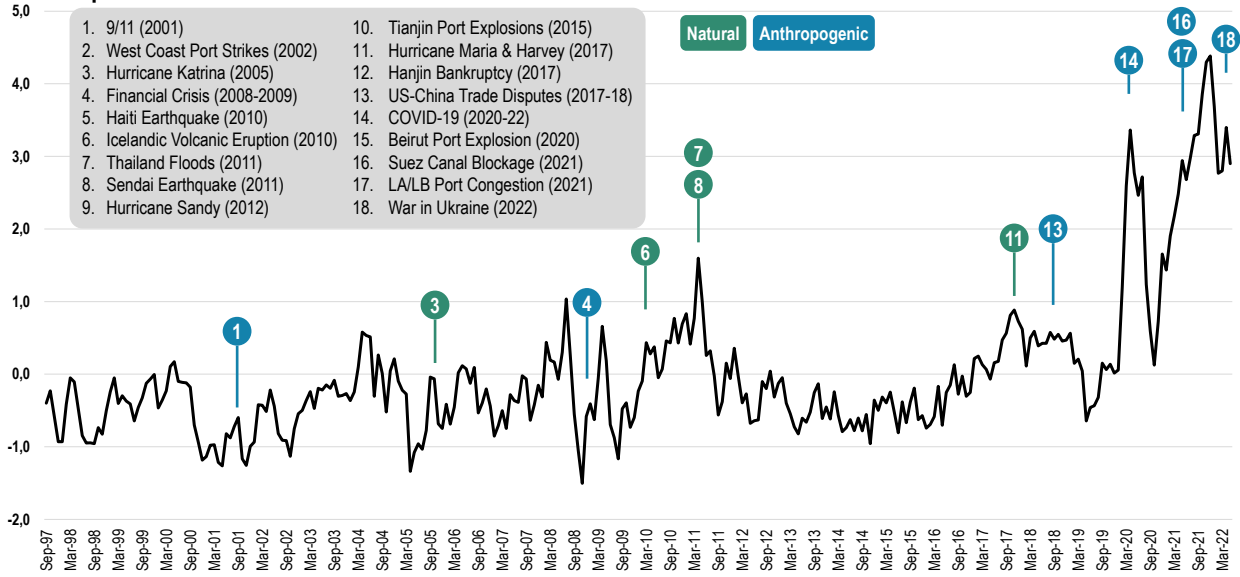
The Unfolding of a Supply Chain Crisis



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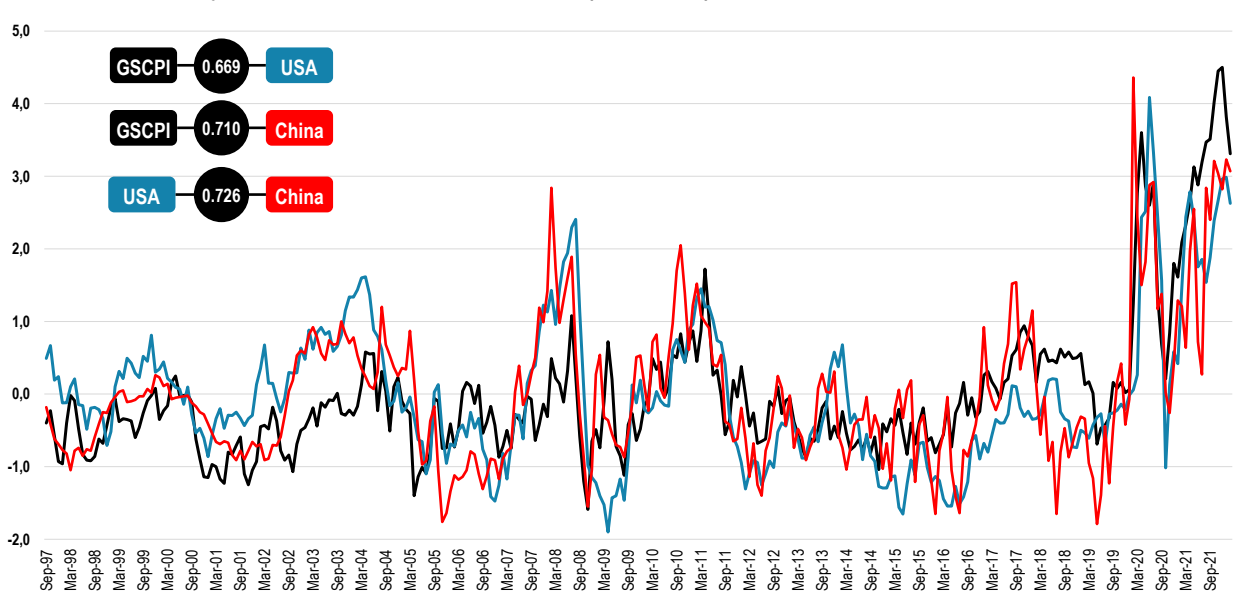
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Global Supply Chain Pressure Index (GSCPI) and Major Supply Chain Disruptions



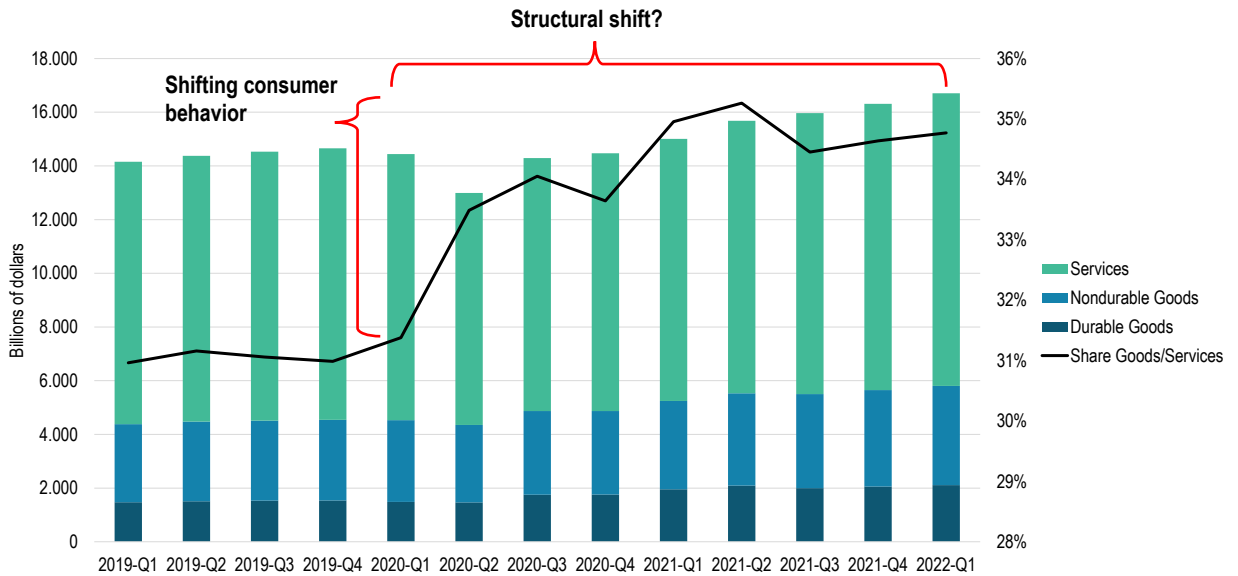
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Global Supply Chain Pressure Index (GSCPI)



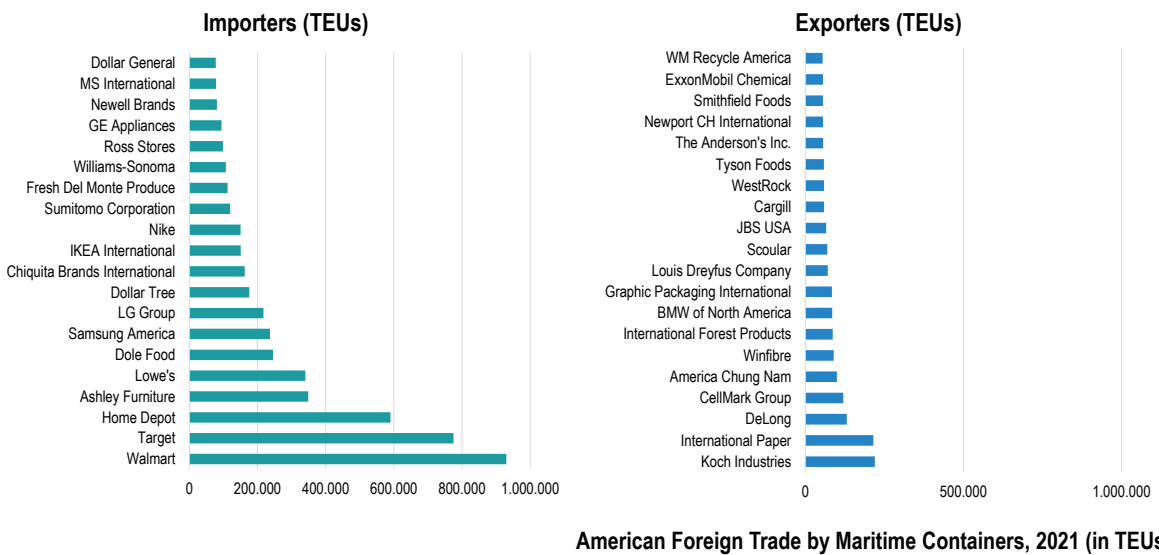
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Personal Consumption Expenditures by Major Type of Product, United States



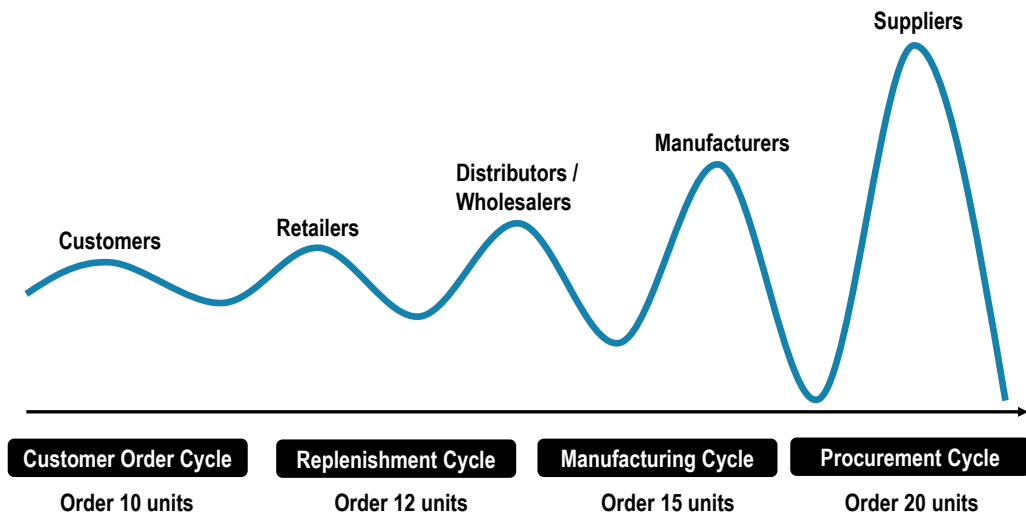
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Importing Consumer Goods and Exporting Commodities and Fresh Air



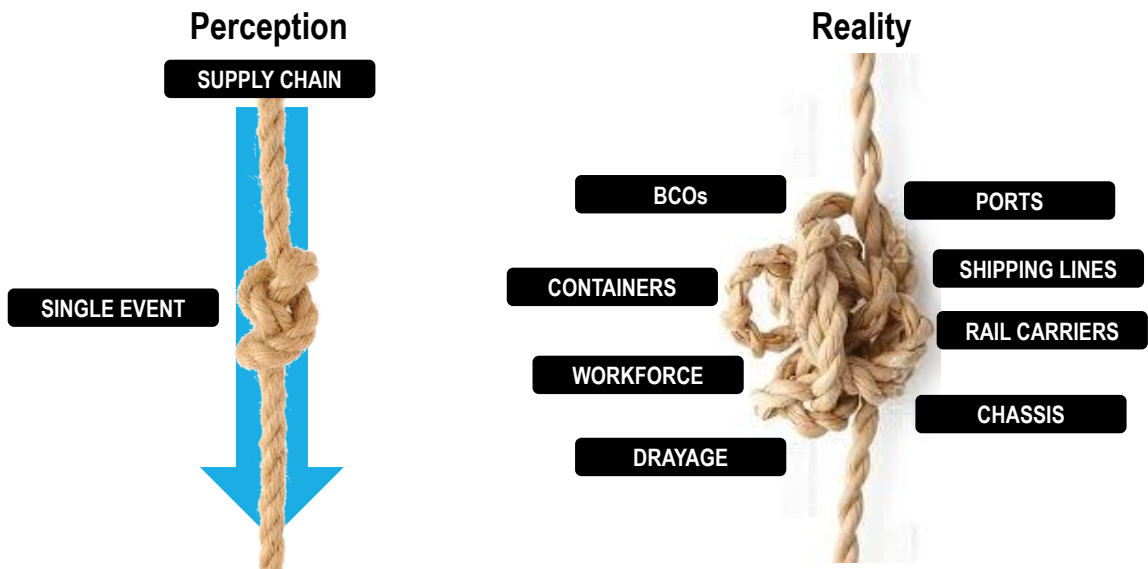
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The "Bullwhip Effect" in Supply Chains: An Unassessed Risk



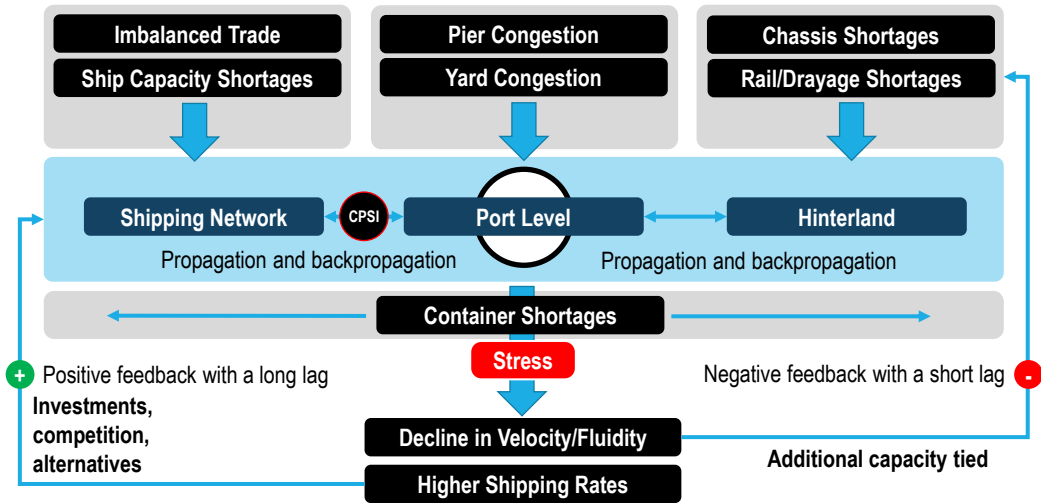
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Supply Chain Disruptions: Not a knot, but an entanglement



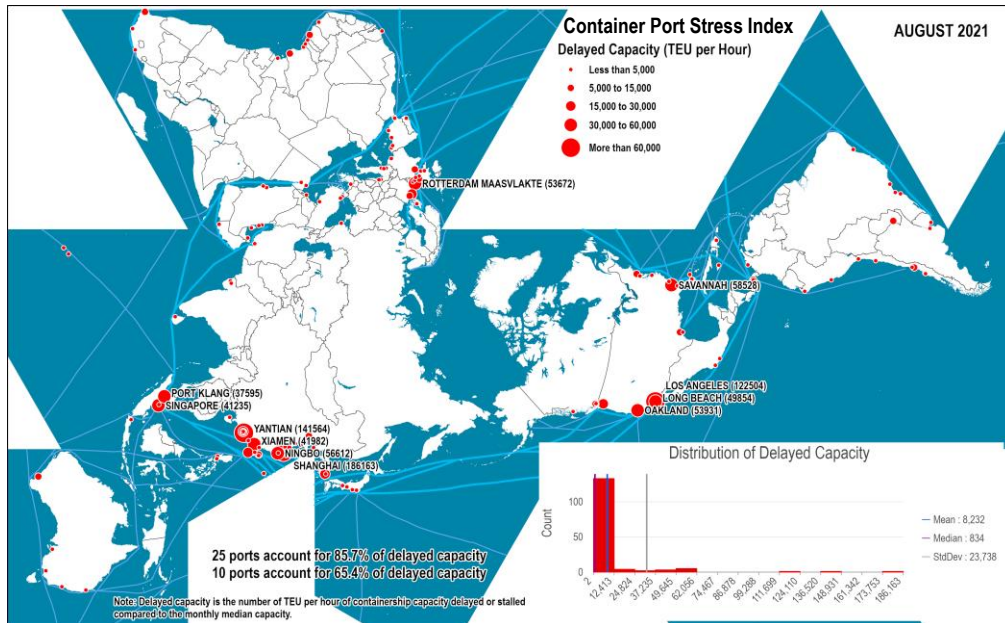
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The Great Entanglement: Vertical and Lateral Impacts of Disruptions in Maritime Shipping



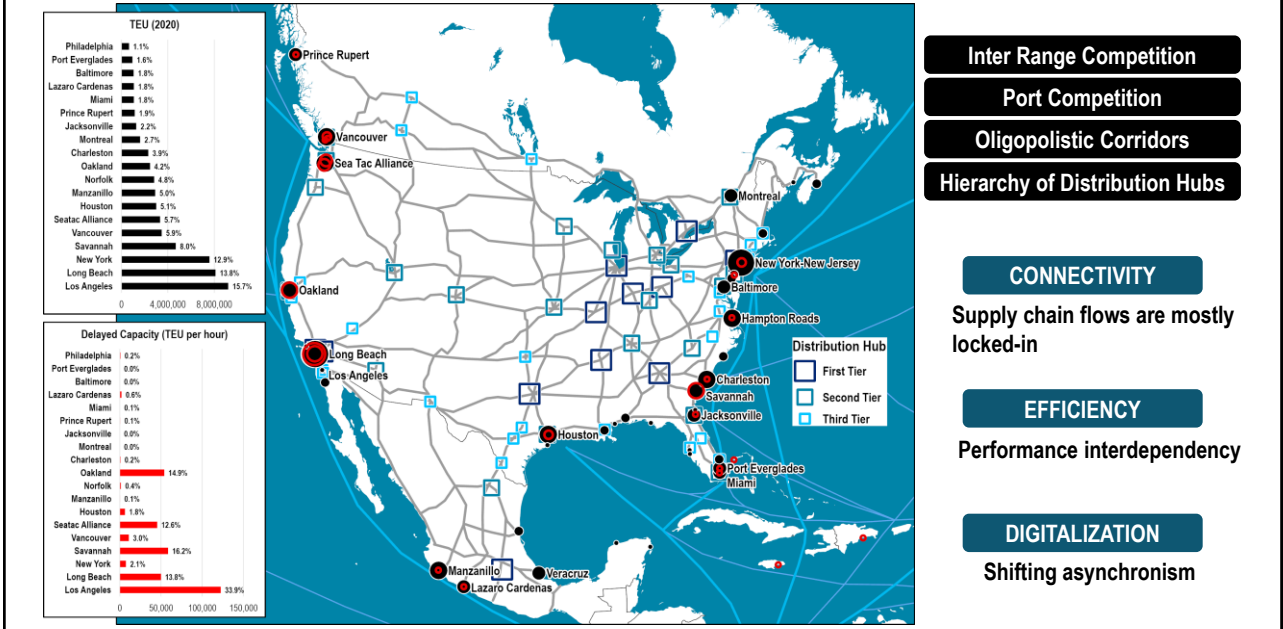
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Containership Delayed Capacity in TEU per Hour at Port, August 2021



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Maritime Ranges of North America



- Inter Range Competition
- Port Competition
- Oligopolistic Corridors
- Hierarchy of Distribution Hubs

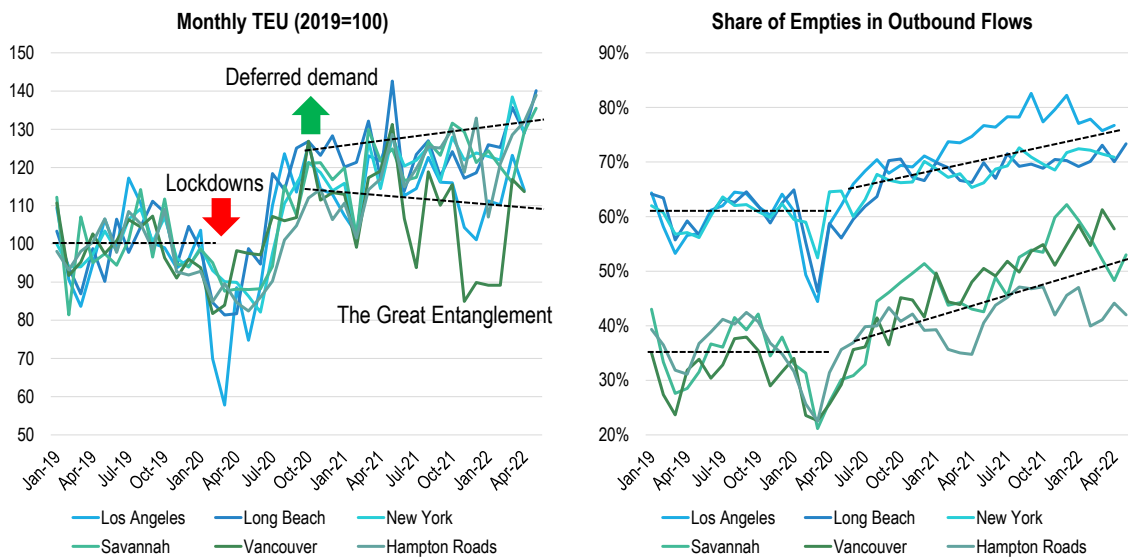
CONNECTIVITY
Supply chain flows are mostly locked-in

EFFICIENCY
Performance interdependency

DIGITALIZATION
Shifting asynchronism

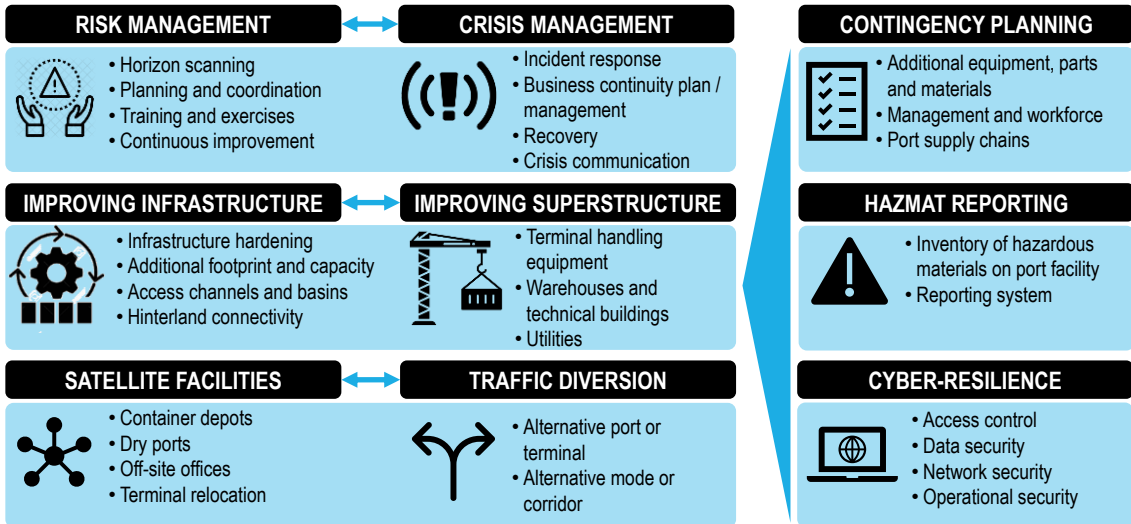
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The Great Entanglement of North American Gateways



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Key Mitigation and Response Measures to Port Disruptions



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Keeping Things Moving: The Velocity of Freight Remains Fundamental



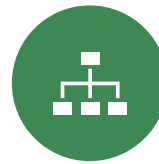
**ACCESSIBILITY TO
MAJOR
COMMERCIAL
GATEWAYS**



**REGIONAL
MARKETS AND
INFRASTRUCTURE**



**LAND FOR
LOGISTICS**



**COORDINATION
(ZONING,
INVESTMENTS,
LABOR)**

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Conclusion: Dealing with the Great Entanglement



UNTANGLING

Working within the system

- Coordination as a competitive mechanism.
- Logistics corridors.
- Digitalization and Automation.



CORD CUTTING

Leaving the system

- Reshoring and changing procurement.
- New supply chain practices (e.g. semi knockdown).



DECOUPLING

Finding alternatives

- New competition mechanisms.
- New entrants in shipping.
- New port-centric distribution channels.

Capital cannot easily be transformed into infrastructure...

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Port Economics, Management and Policy

Theo Notteboom, Athanasios Pallis and Jean-Paul Rodrigue

Thank you for your attention!

<https://porteconomicsmanagement.org/>

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