

Port Economics, Management and Policy

Theo Notteboom, Athanasios Pallis and
Jean-Paul Rodrigue

Autoridad Portuaria de Valencia, 2023

The Maritime Economy in 2022: Moving Away from the Great Entanglement

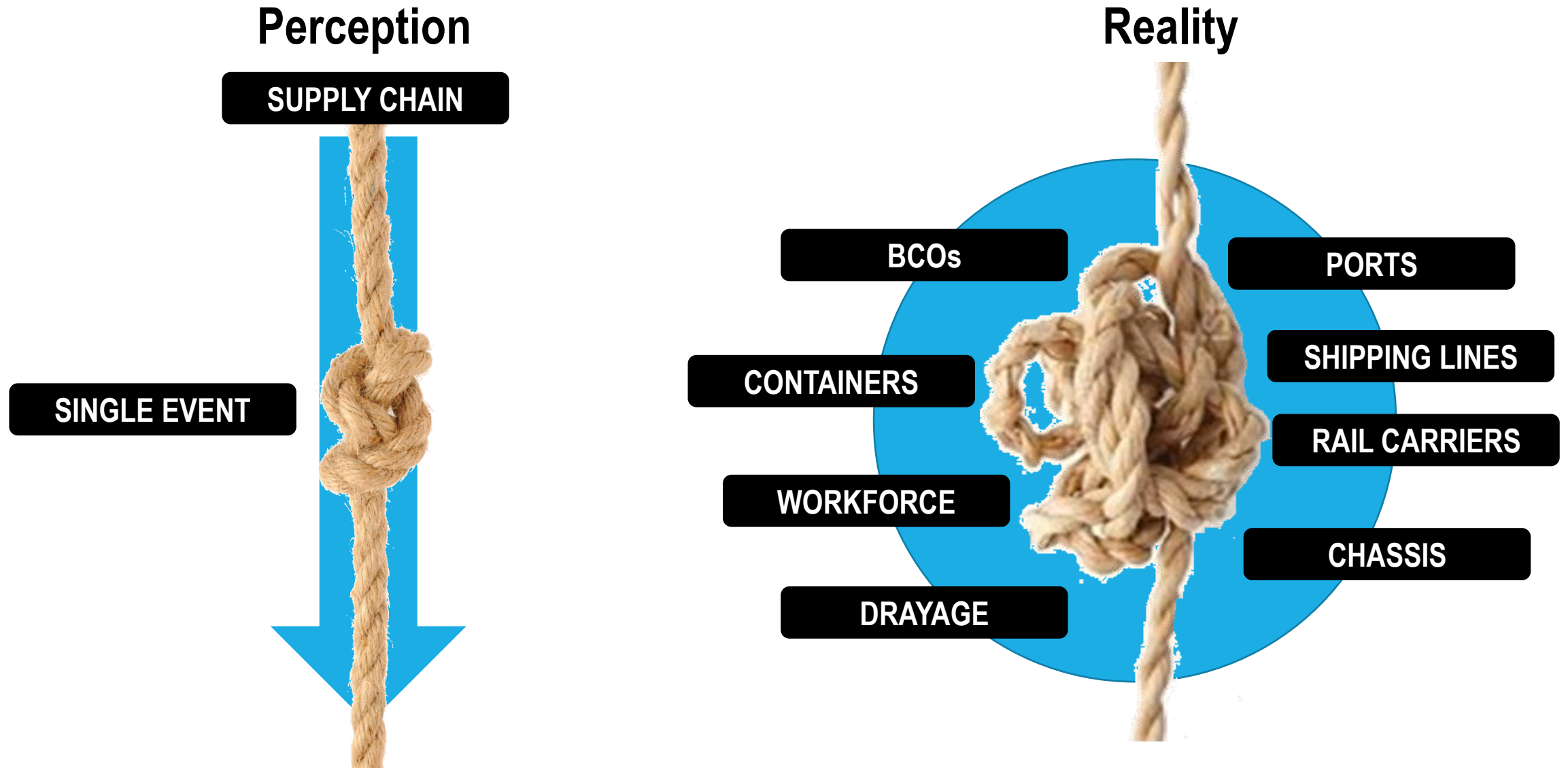
Dr. Jean-Paul Rodrigue

Dept of Global Studies and Geography, Hofstra University.

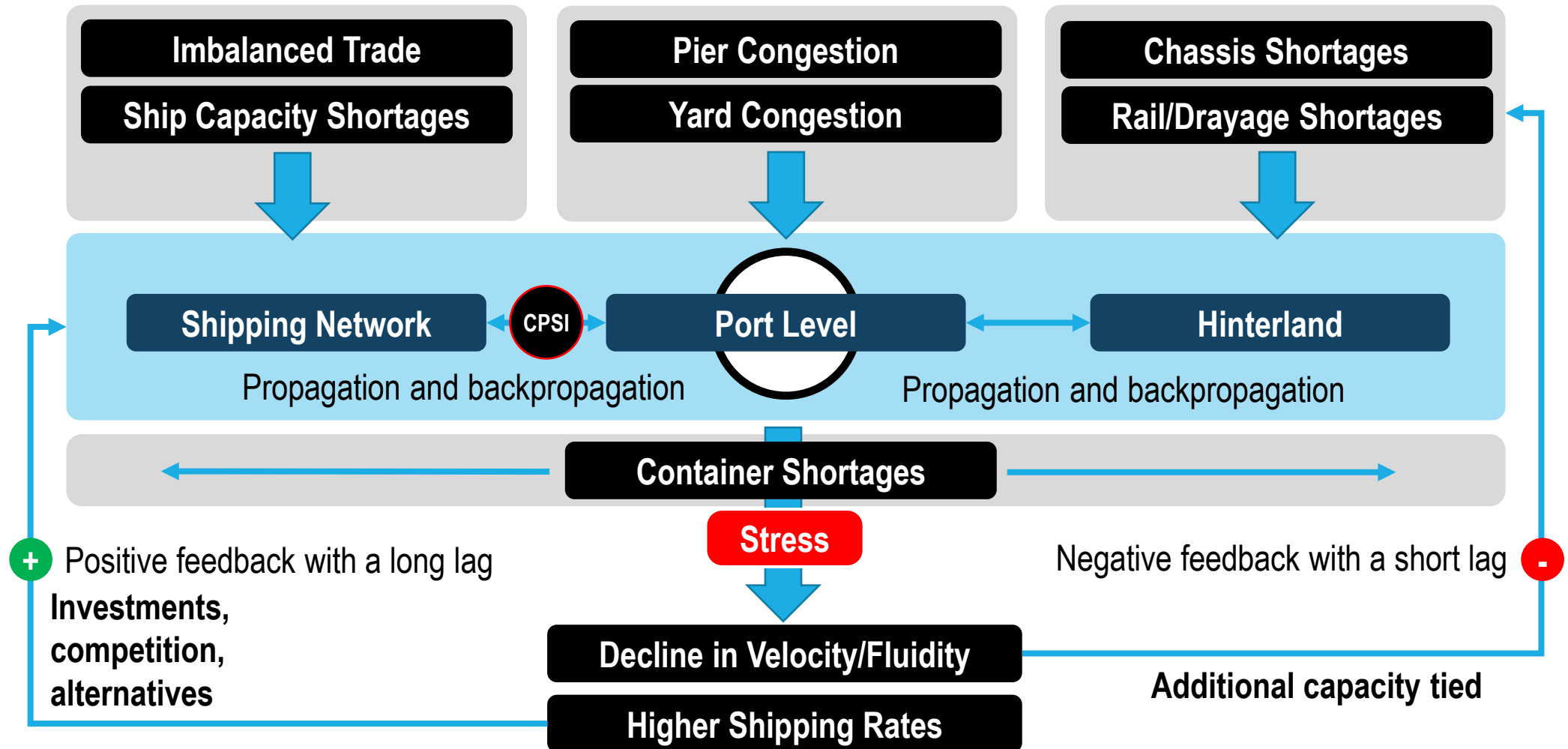
Distinguished Fellow, Hagler Institute for Advanced Study / Department of Maritime
Business Administration, Texas A&M University-Galveston.



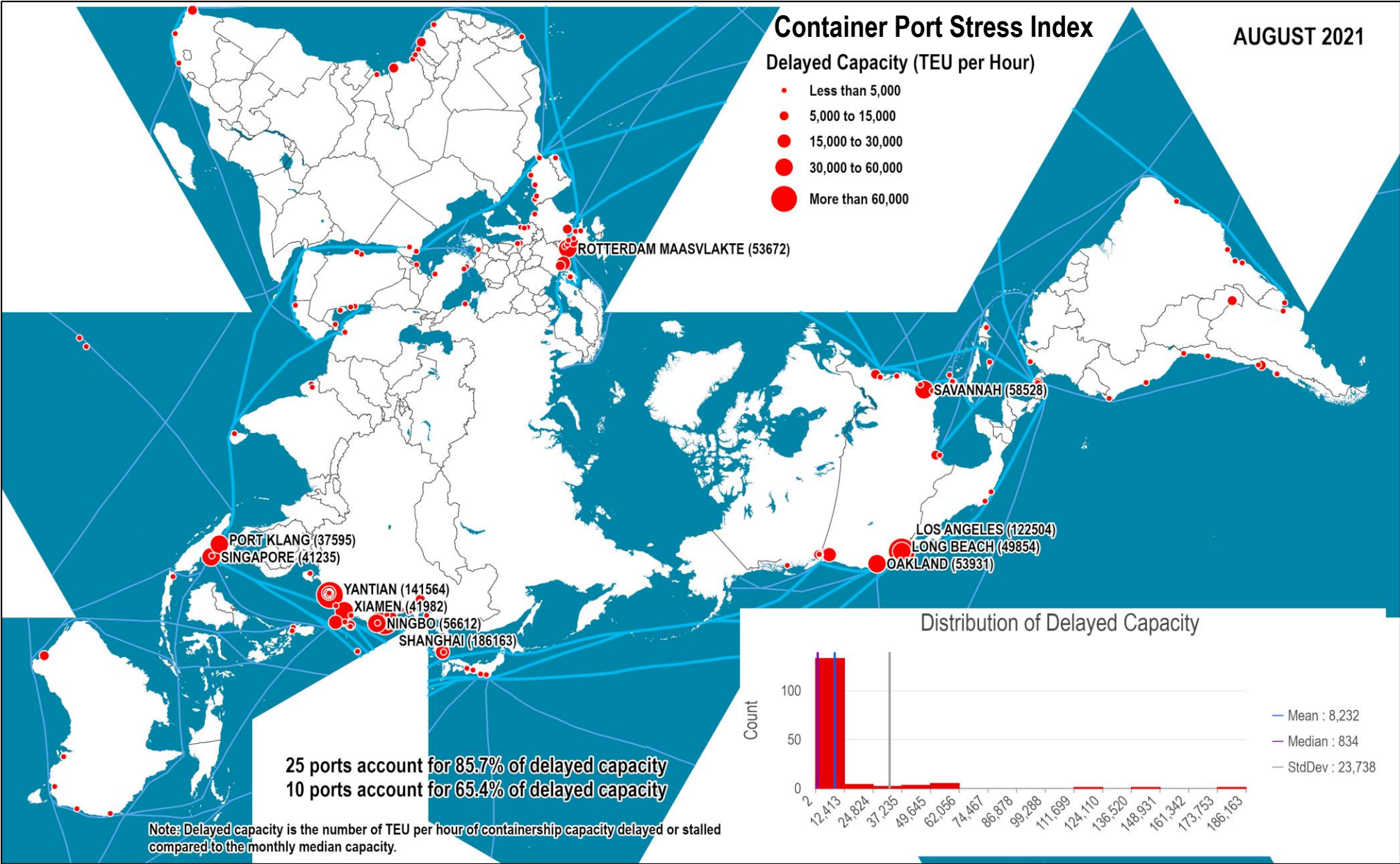
Supply Chain Disruptions: Not a knot, but an entanglement

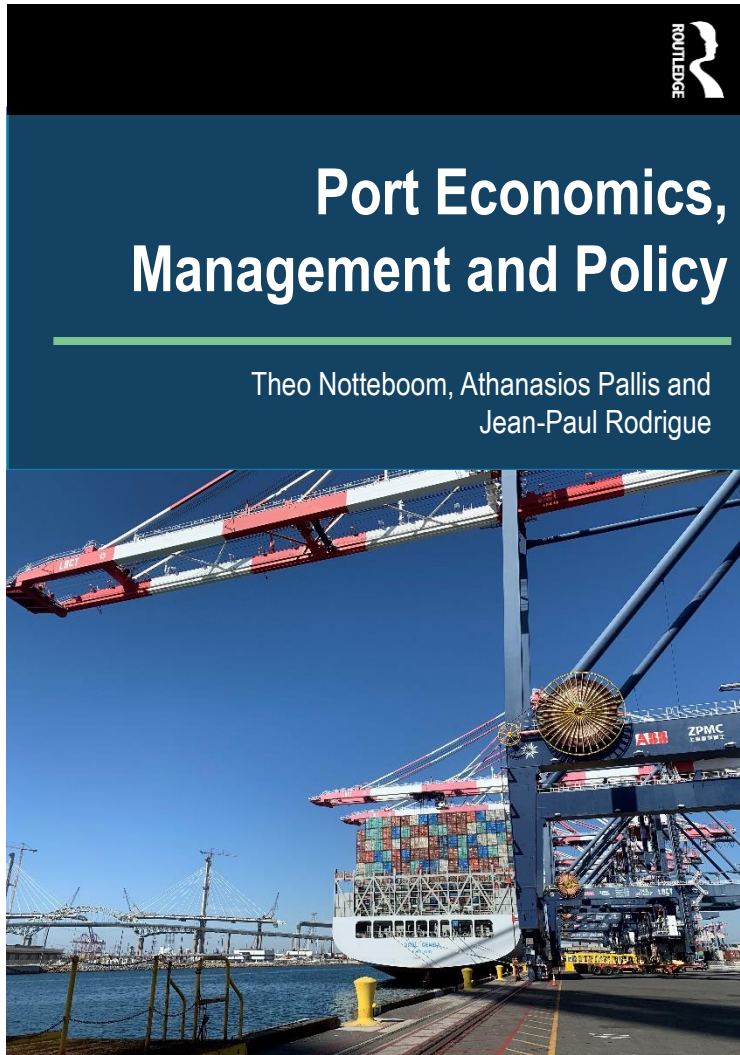


The Great Entanglement: Vertical and Lateral Impacts of Disruptions in Maritime Shipping



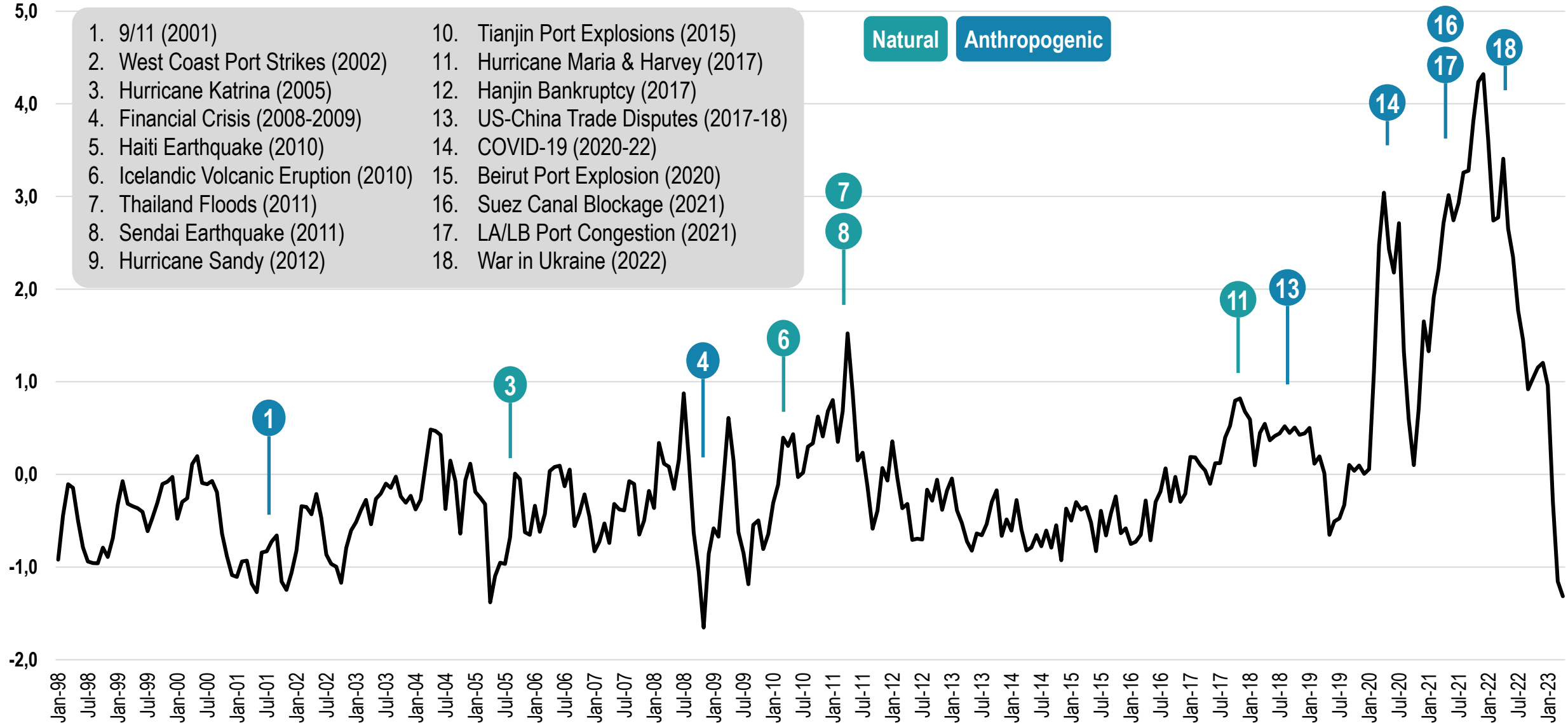
Containership Delayed Capacity in TEU per Hour at Port, August 2021



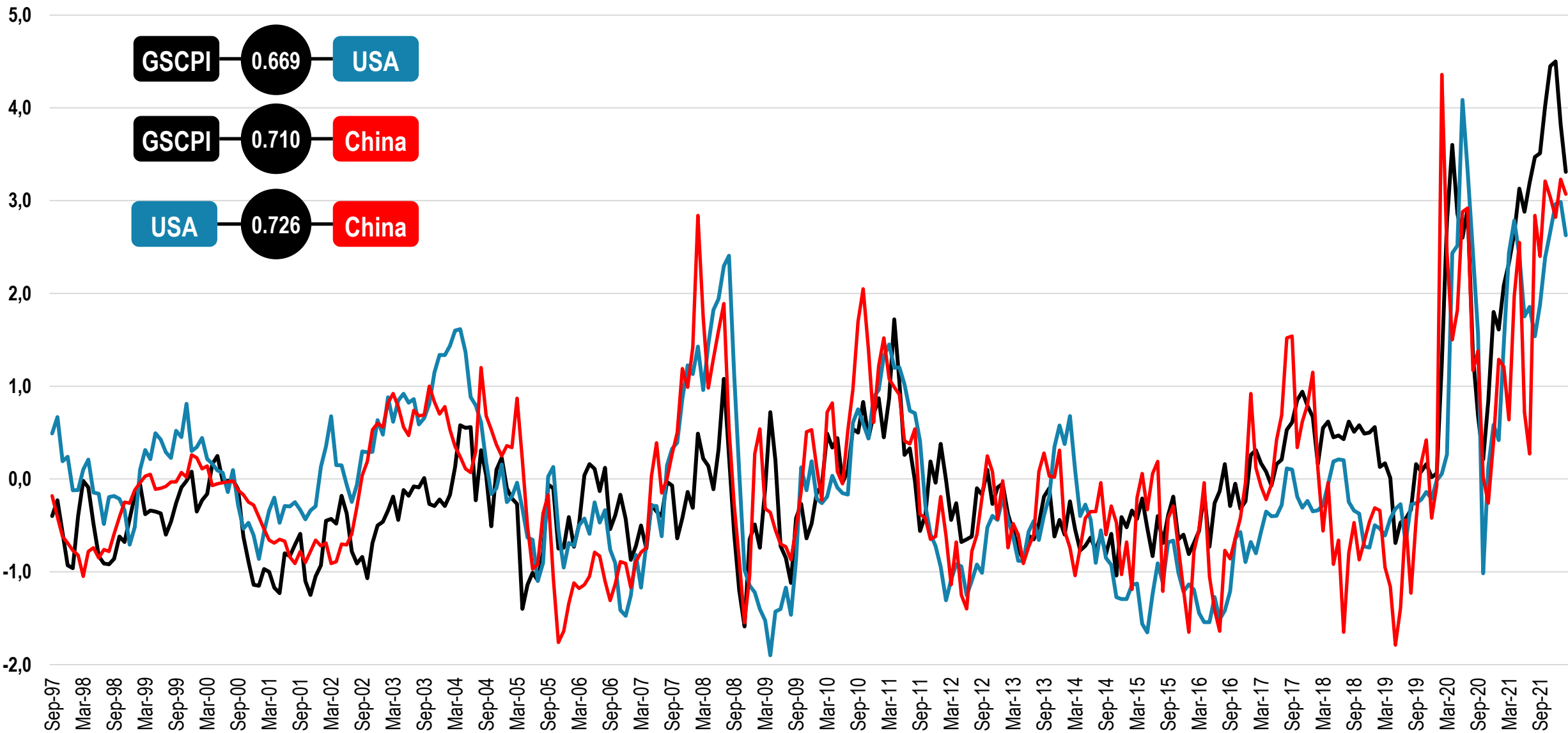


Convergence between Maritime Shipping and Global Supply Chains

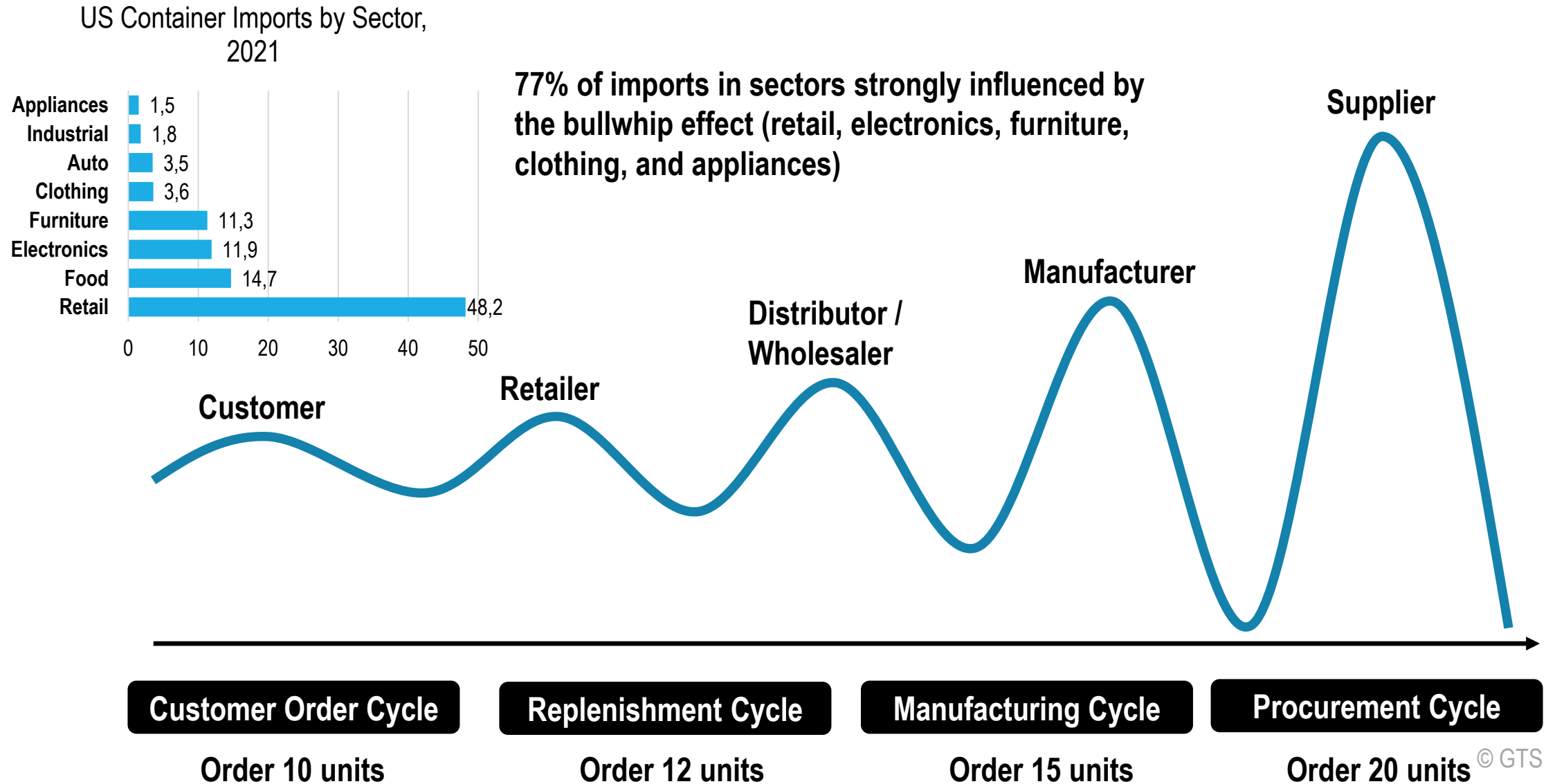
Global Supply Chain Pressure Index (GSCPI) and Major Supply Chain Disruptions



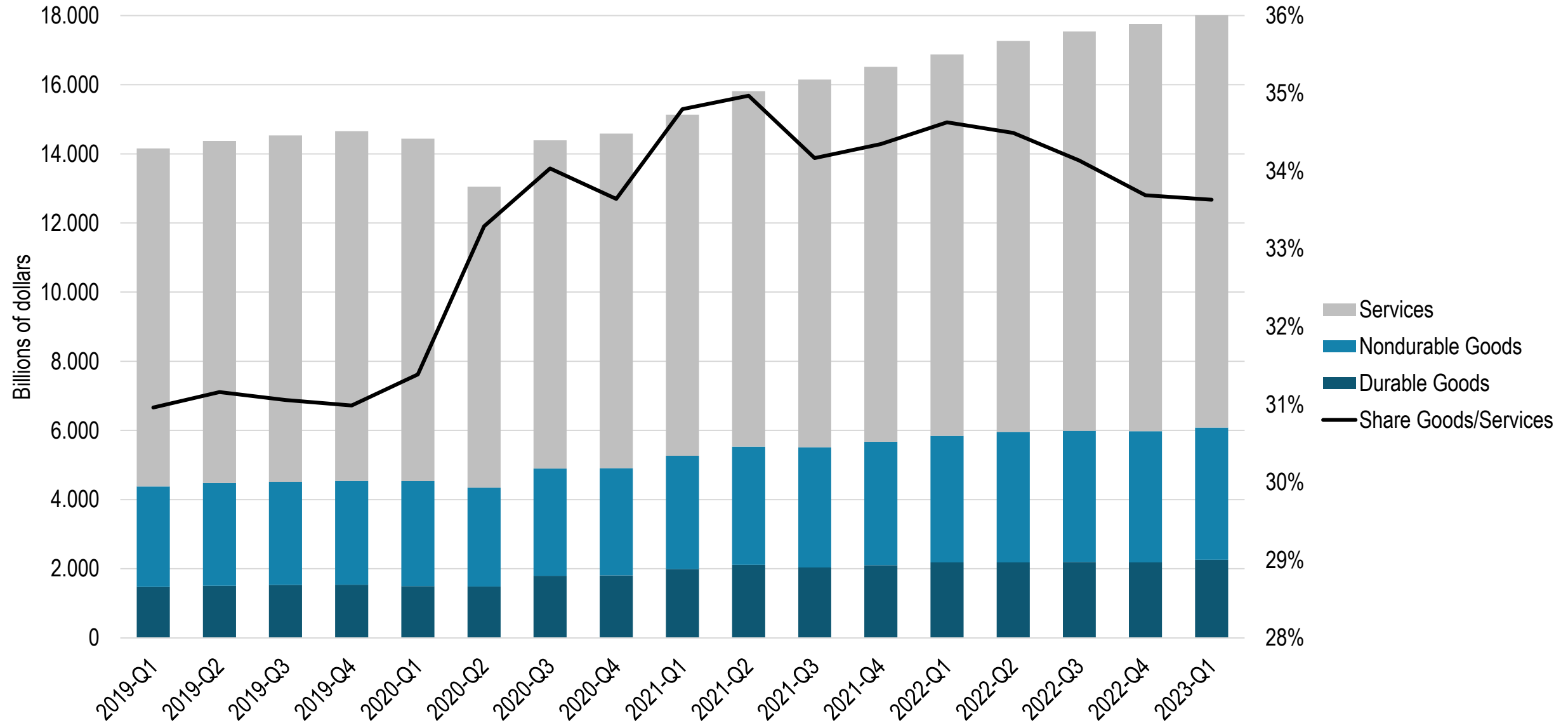
Global Supply Chain Pressure Index (GSCPI)

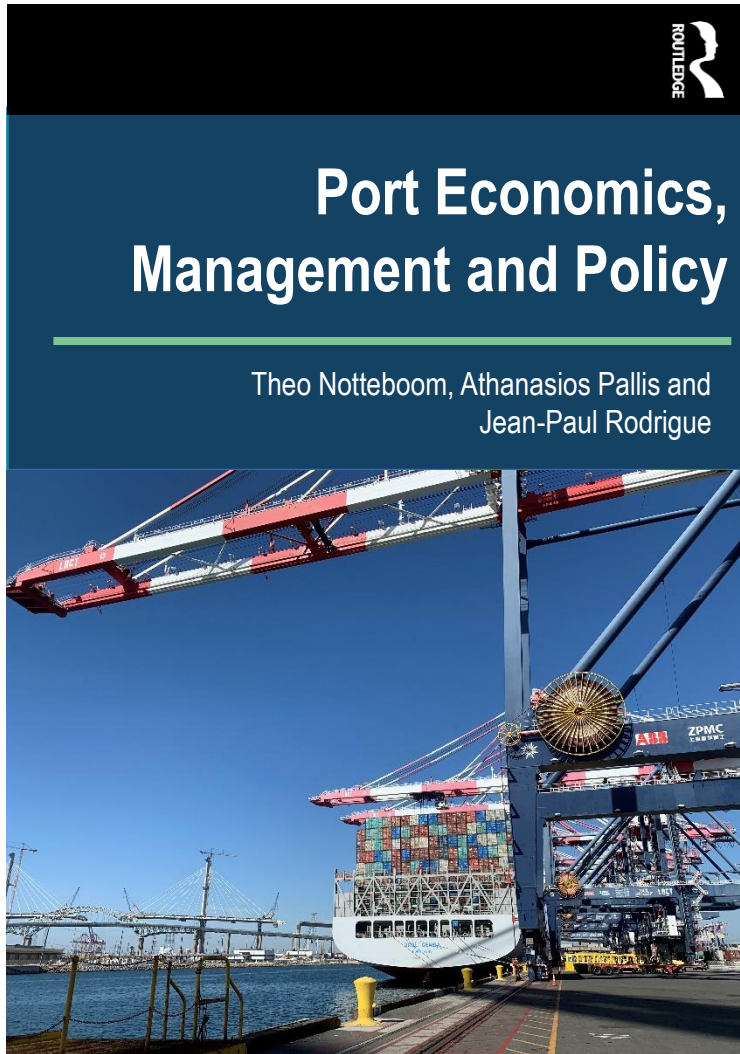


The “Bullwhip Effect” in Supply Chains



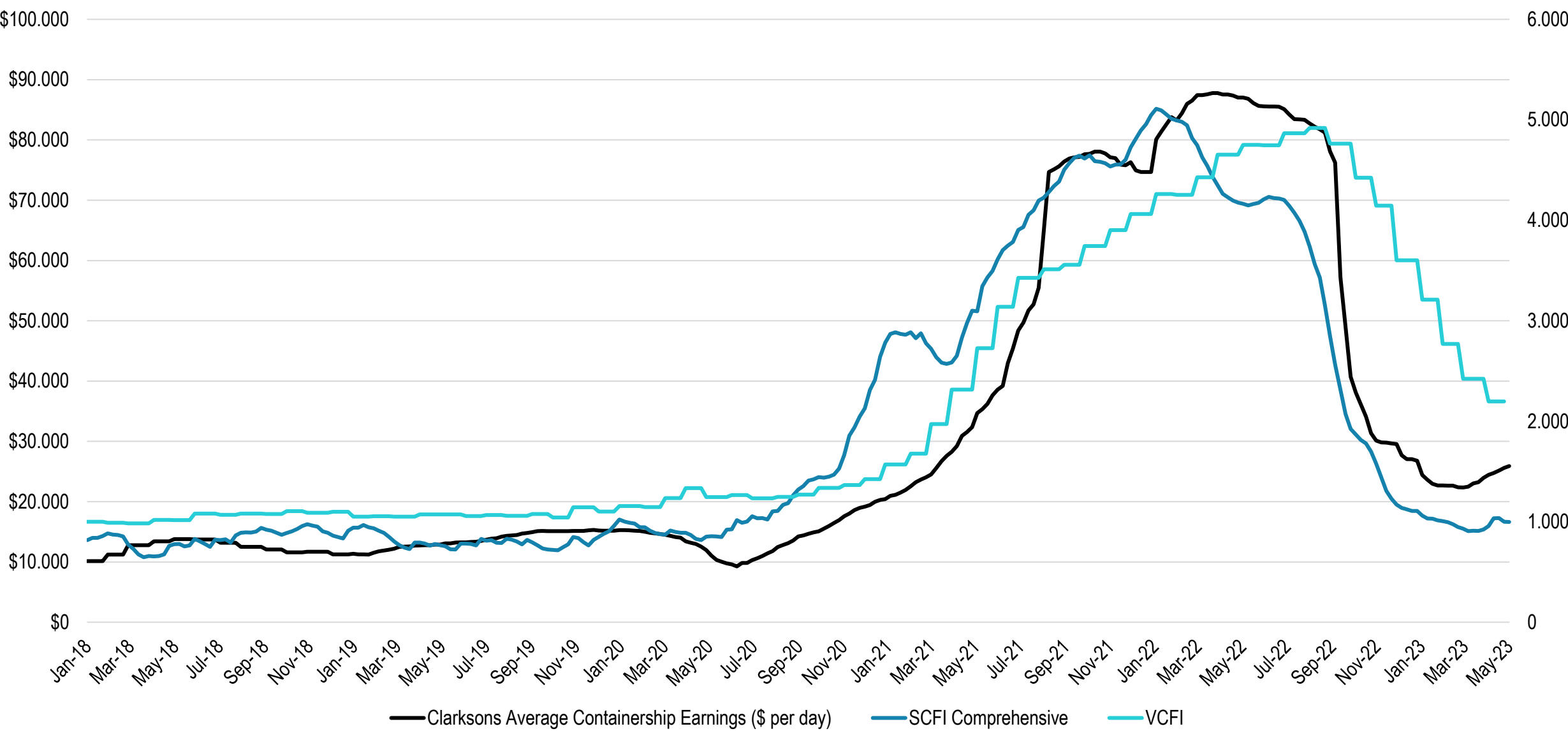
Personal Consumption Expenditures by Major Type of Product, United States



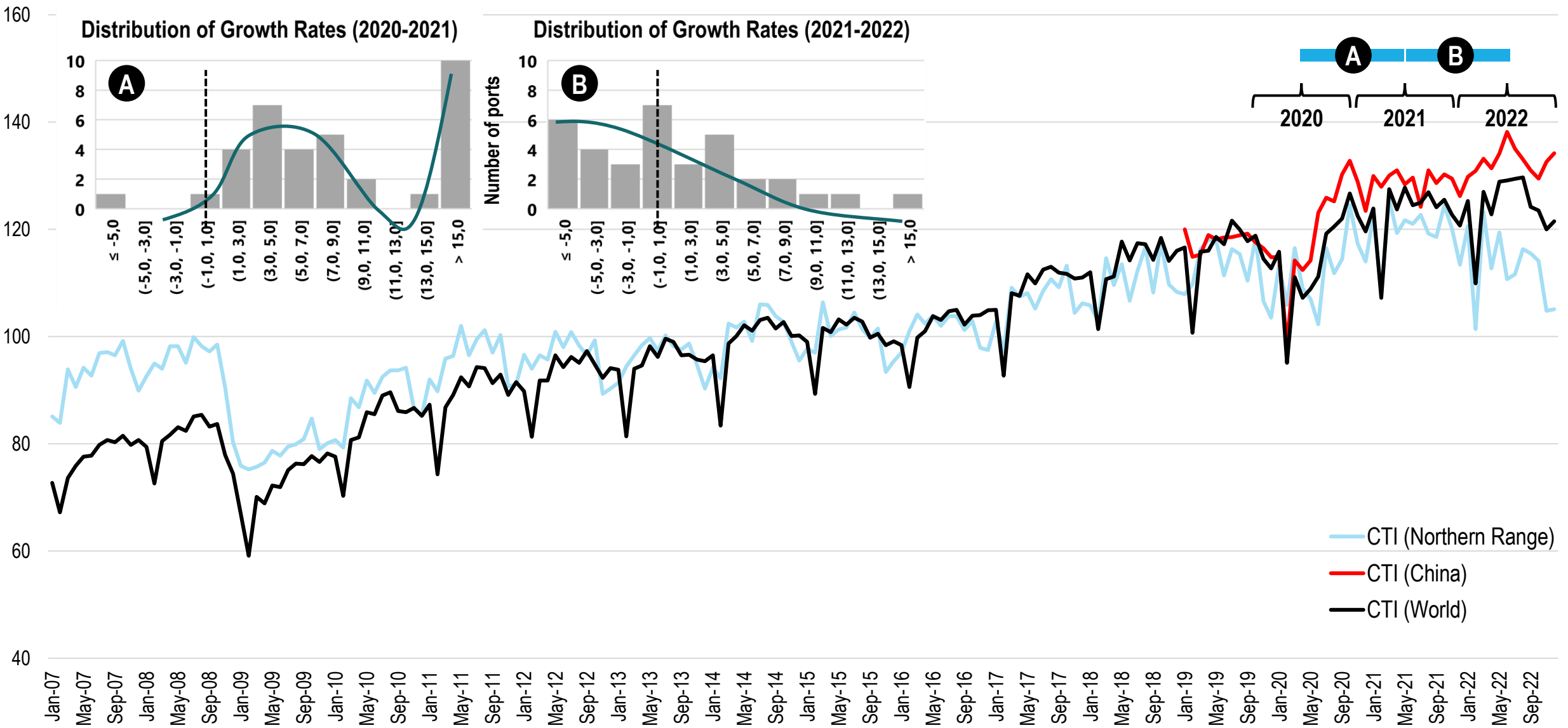


Divergence in Container Port Growth Rates

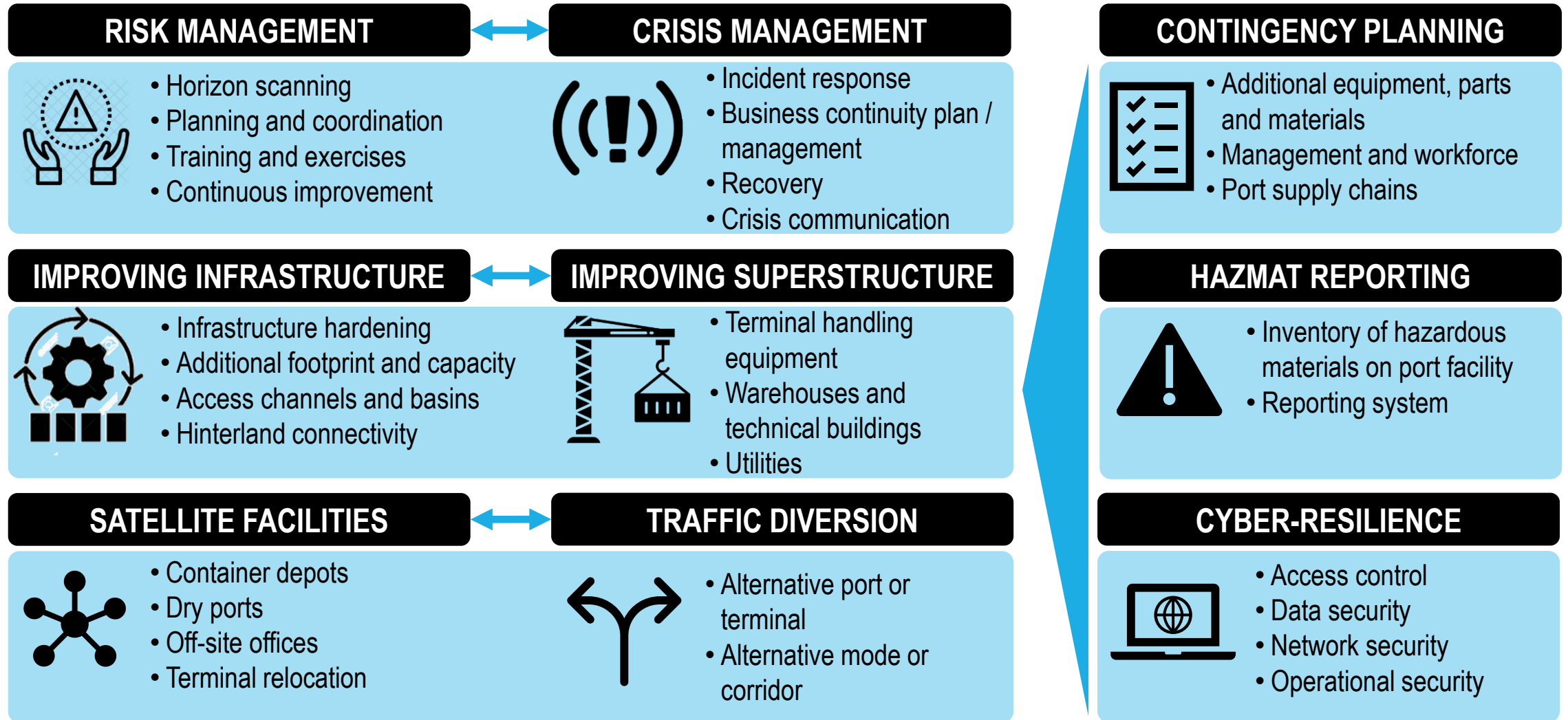
Shanghai/Valencia Containerized Freight Index (SCFI/VCFI), 2018-2023



Container Throughput Index, 2007-2022



Key Mitigation and Response Measures to Port Disruptions



Emerging Risks and Resilience Challenges

CHINA RISK



- Paradigm macroeconomic shift.
- Deflationary real estate cycle.
- China plus one.
- Reshoring and friendshoring.
- Demographic bust.

MARKET RISK



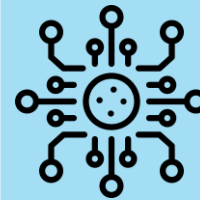
- Enduring challenge of estimating demand patterns.
- Fluctuation between undercapacity and overcapacity.
- Lagging effect.
- Recent instability.

DECARBONIZATION RISK



- Ongoing agenda.
- Lower risks for ports (electrification).
- High risk for maritime shipping (fuels?).
- KPIs and ESG?

DIGITALIZATION RISK



- Recent paradigm shift (documentation).
- Hype and realization.
- Cybersecurity.

Port Economics, Management and Policy

Theo Notteboom, Athanasios Pallis and
Jean-Paul Rodrigue

Thank you for your attention!

<https://porteconomicsmanagement.org/>

