

Stakeholder roles in a Physical Internet

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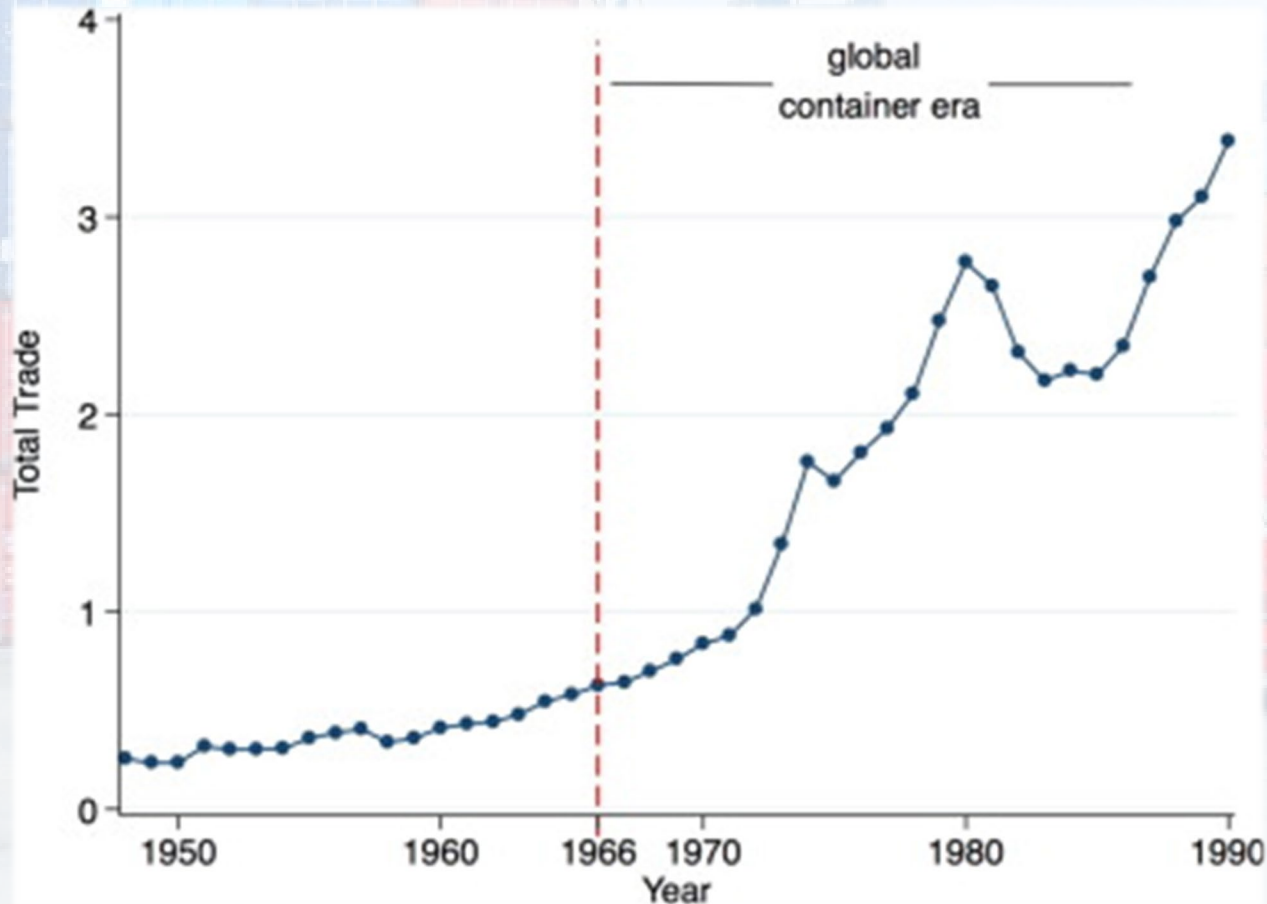


The traditional role of ports

- Important nodes in global supply chains
- Mechanized or even fully automated handling of standardized maritime containers
- Handle large numbers of containers at low cost per container



The traditional role of ports

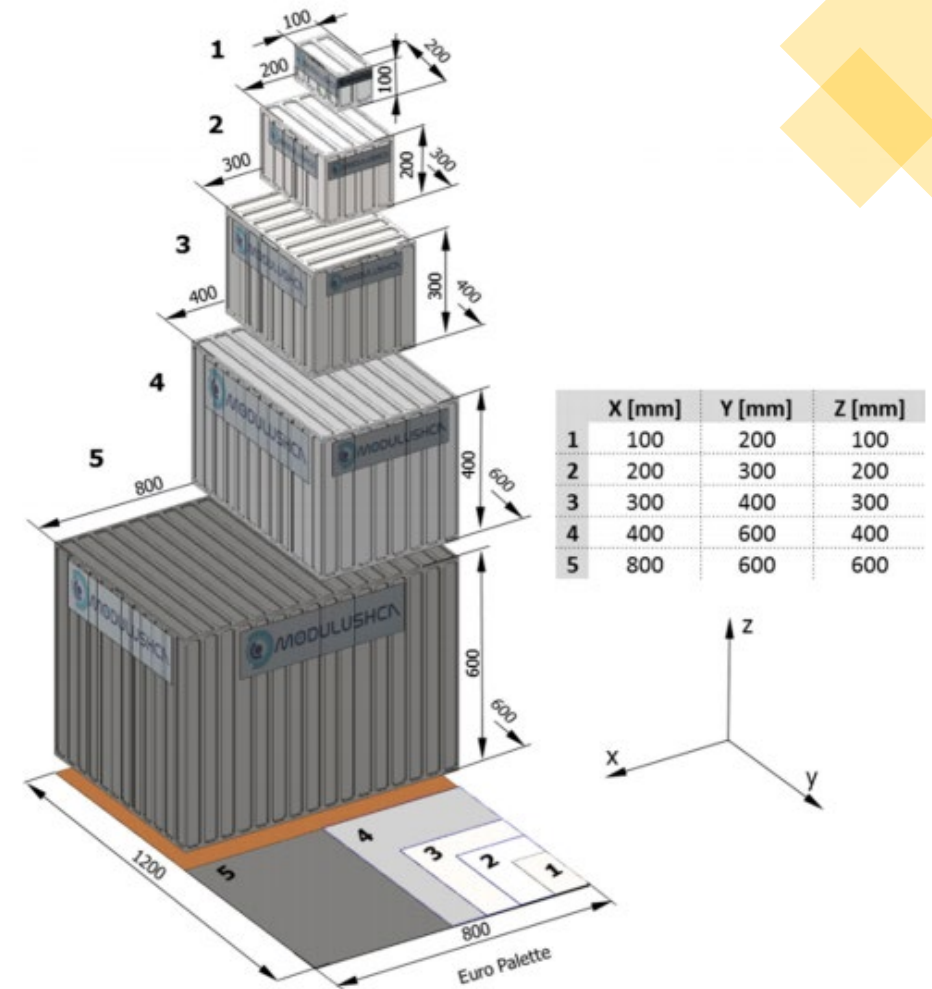


Bernhofen, D.M., El-Sahli, Z. and Kneller, R., 2016. Estimating the effects of the container revolution on world trade. *Journal of International Economics*, 98, 36-50.

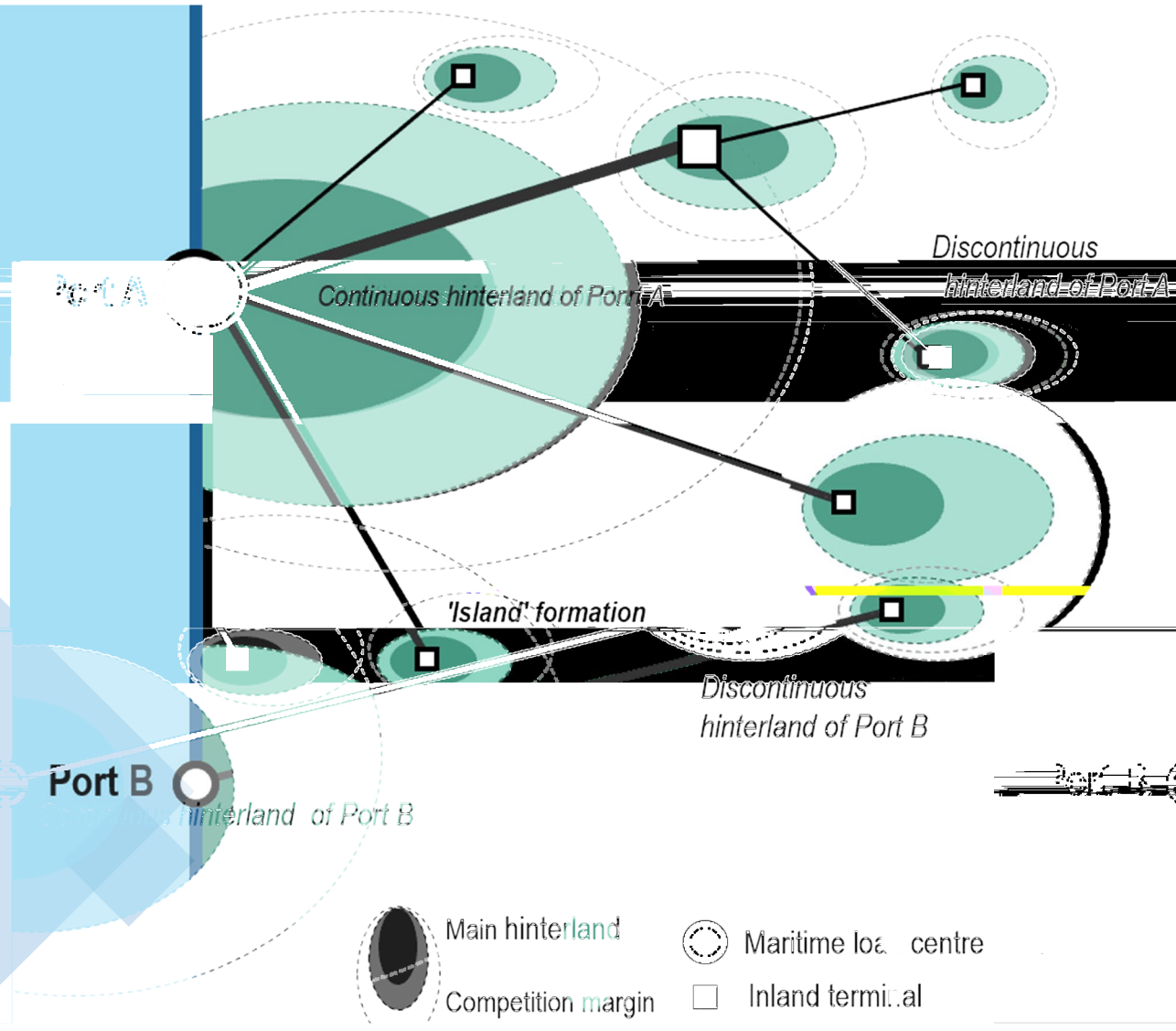


Changing roles in a Physical Internet

- Seaports: Facilitating handling of modular containers?
- How about the many other stakeholders in the hinterlands of ports?



The hinterland



- Physical transport of goods
 - Shipping companies
 - Road-freight carriers
 - Inland terminals
 - ...
- Coordinating flows of goods
 - Logistics service providers
 - Freight forwarders
 - Logistics platforms
 - ...
- Regulation
 - Customs agencies

Information technology



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