



Livorno

April, 18th 2018

Port investments and maritime connectivity: The role of Italy for the Mediterranean region



Prof. Francesco Parola & Giovanni Satta
University of Genoa





Outline

- Trends in shipping and ports: implications for Europe
- North-South competition
- EU intermodal corridors
- Some potential game changers



Outline

- **Trends in shipping and ports:**
implications for Europe
- North-South competition
- EU intermodal corridors
- Some potential game changers



Trends in shipping and ports

LINER SHIPPING

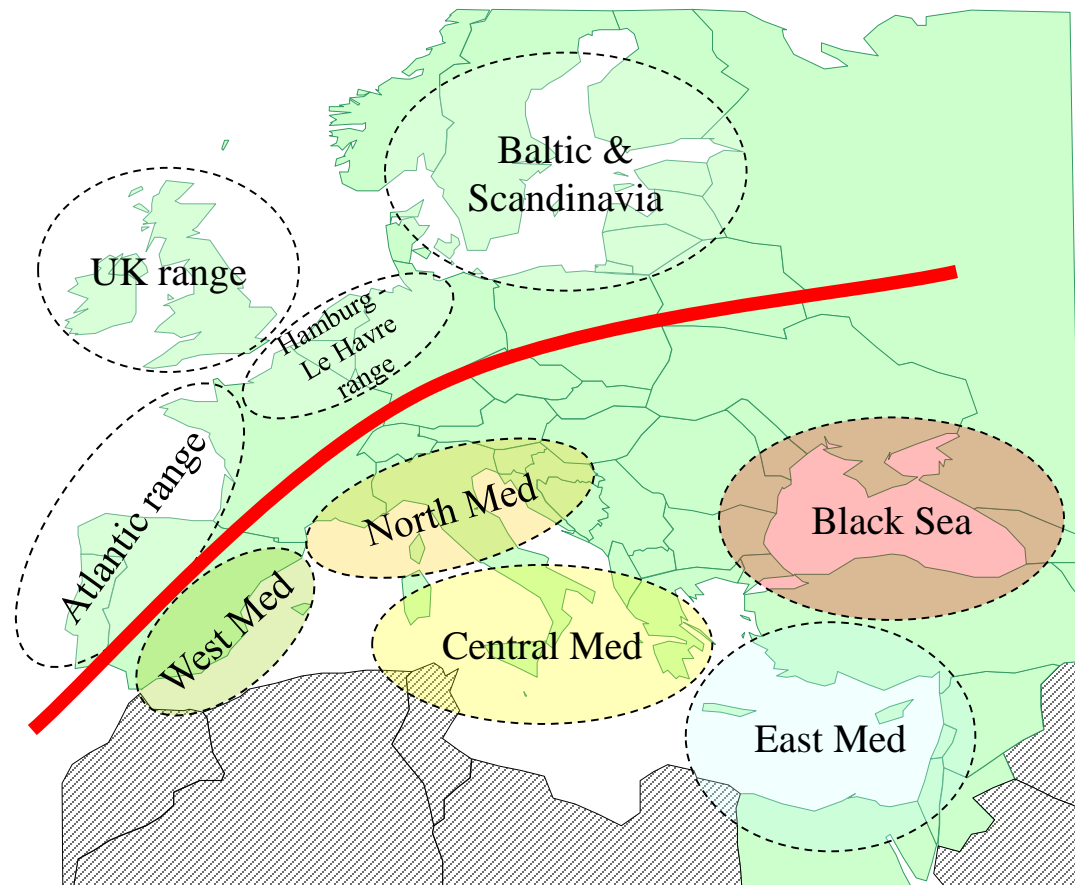
- Cost leadership and «**loop**» investments/freight rates
- **Mega-vessels**, imposing various forms of **risk**
- Restructuring of **shipping services** (-15% services Far East-Europe from 2015, rise of transshipment in the Med)

PORTS

- **Inter-firm co-operation** and **vertical integration**
- Diffusion of **technological** (EDI, RFID, IoT, OPS, etc.) and **process innovations** (automation)
- Port **internazionalization** and **financialization**.

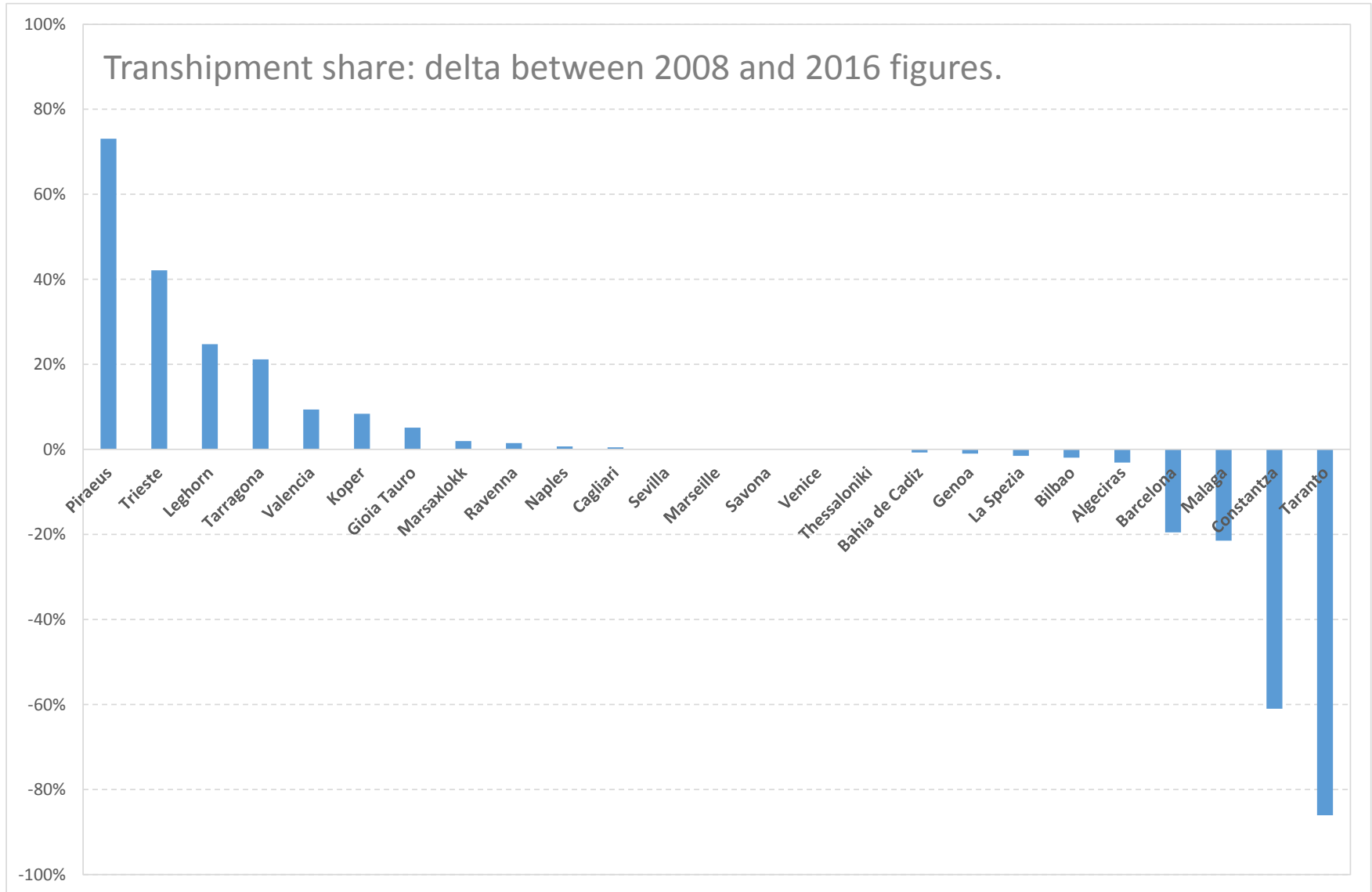


The main port ranges in Europe



- Economic development
- Political stability
- Gateway/transshipment mix
- Centrality to inland markets
- Port infrastructures
- Hinterland transportation
- Port governance models
- Openness to multinationals

Transshipment share in gateways and hubs

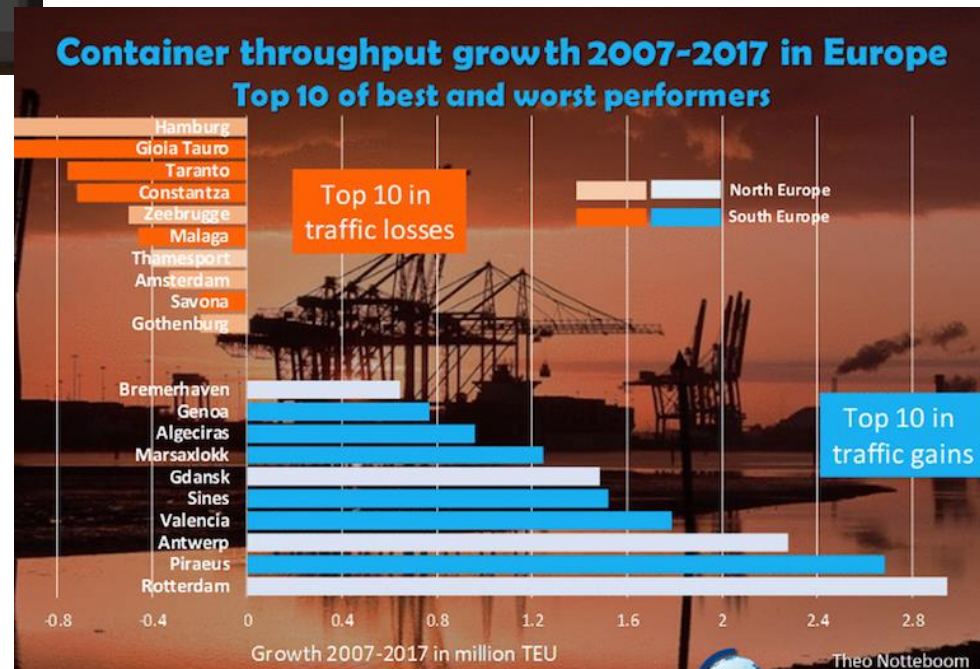
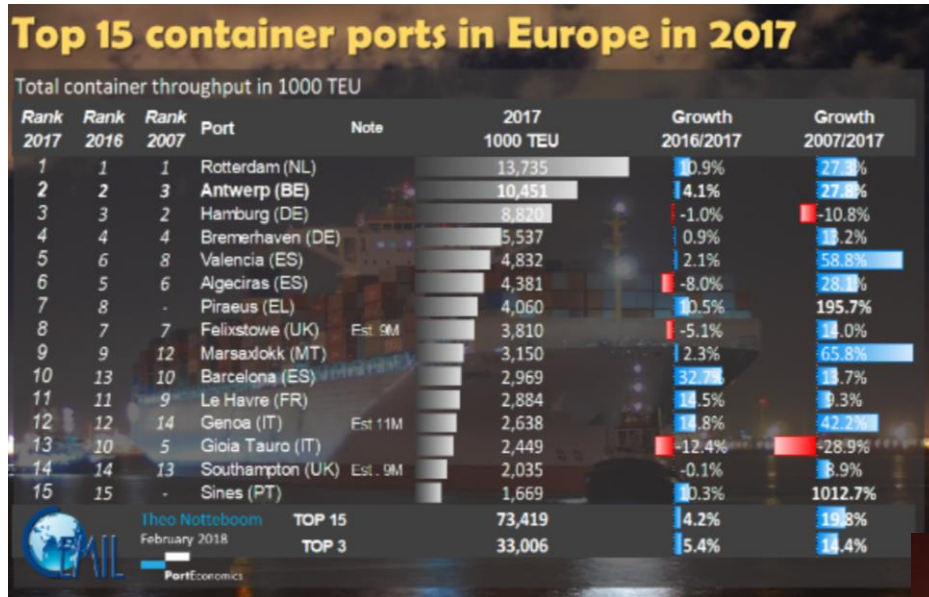




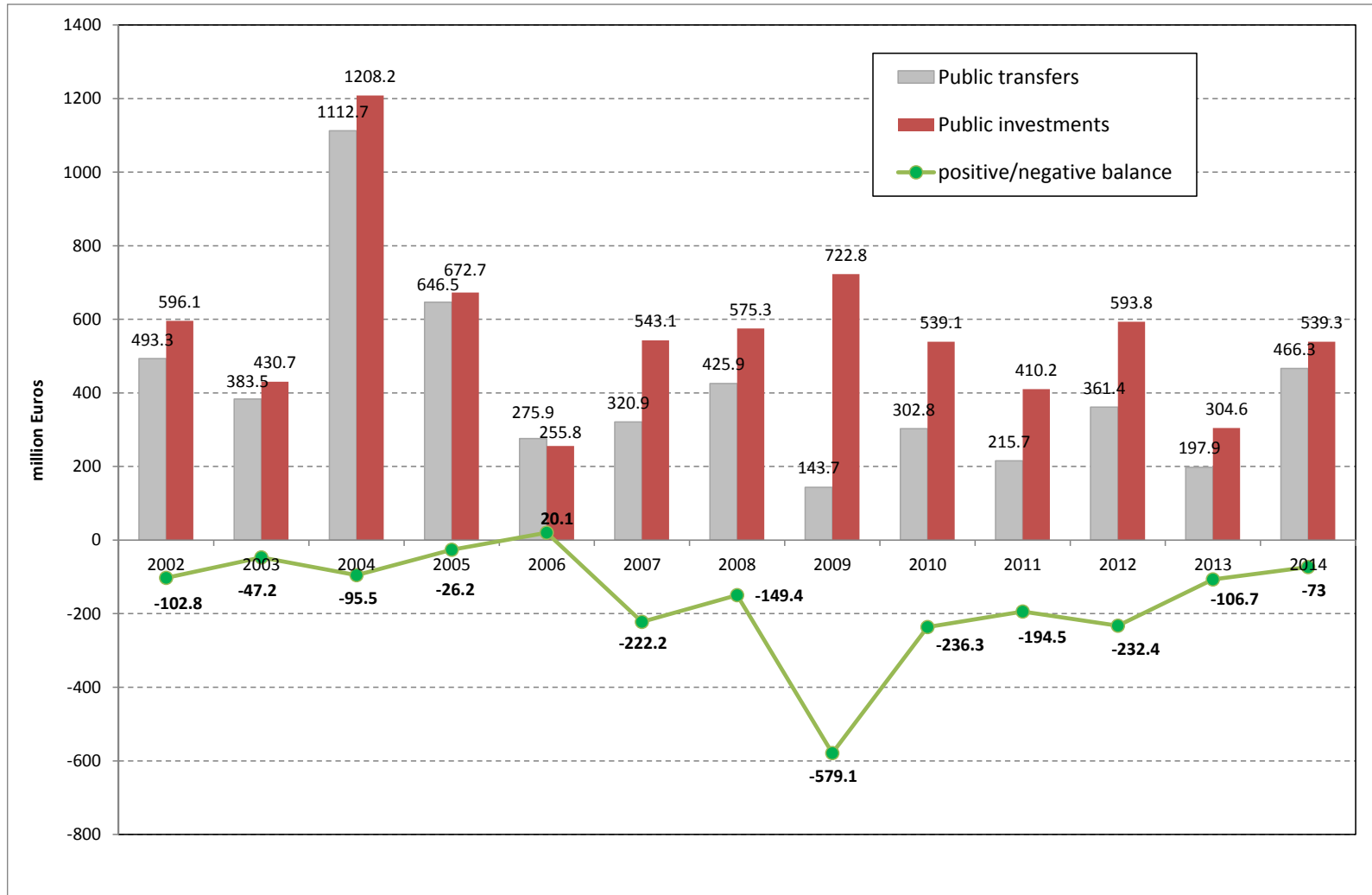
Outline

- Trends in shipping and ports: implications for Europe
- **North-South competition**
- EU intermodal corridors
- Some potential game changers

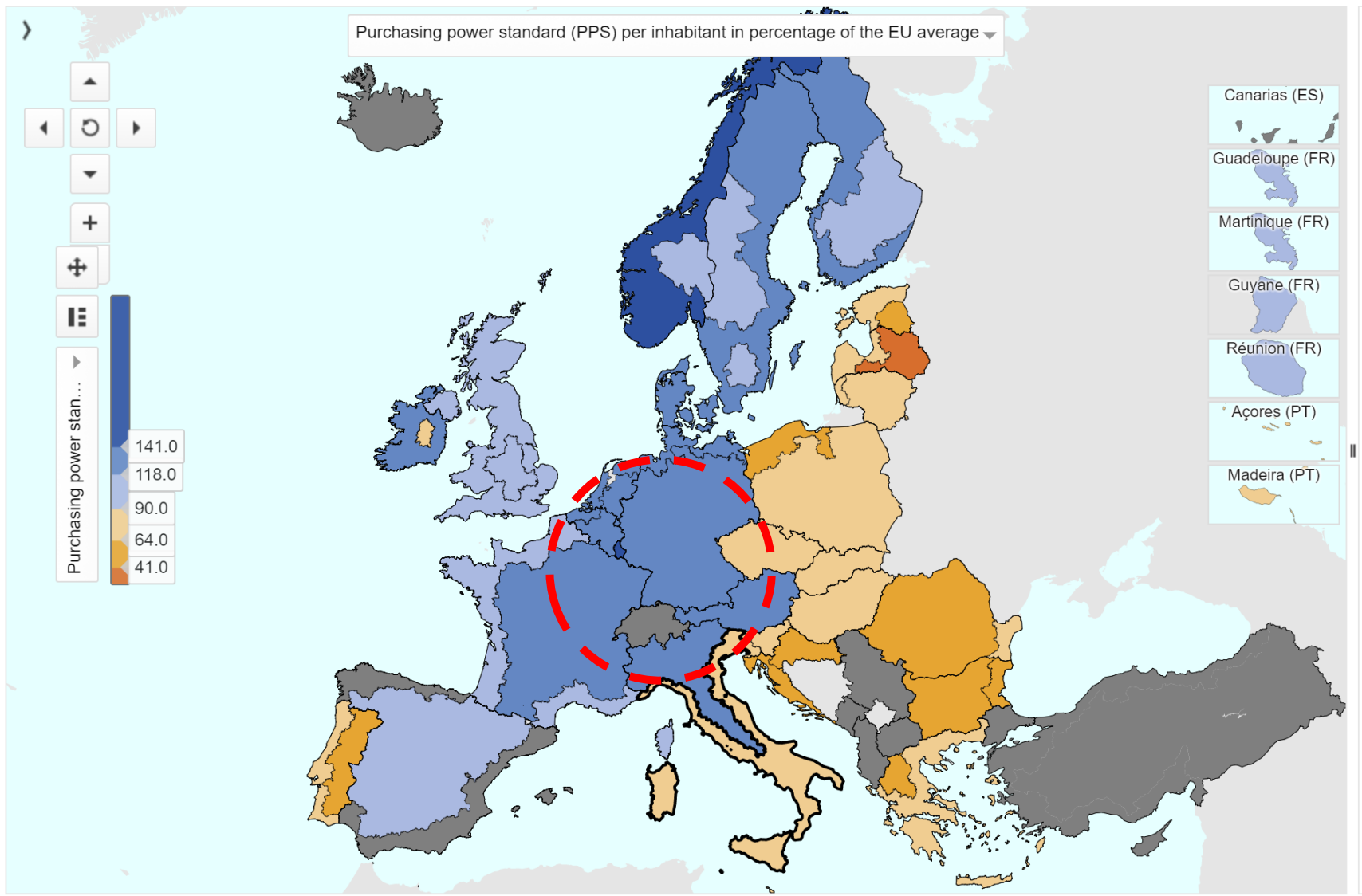
Top 15 container ports in Europe



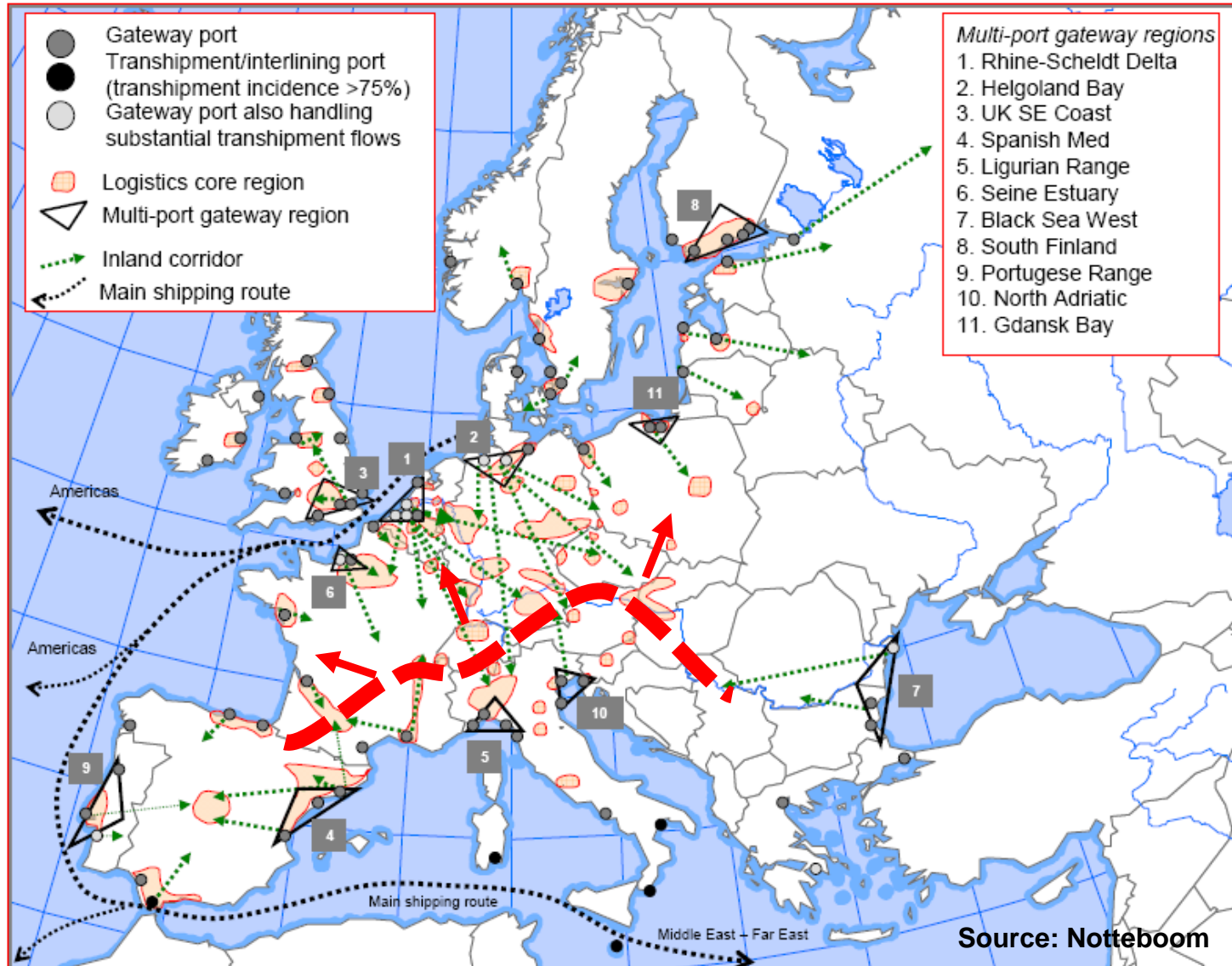
Public and private investments in container ports



Battle for serving the richest EU markets



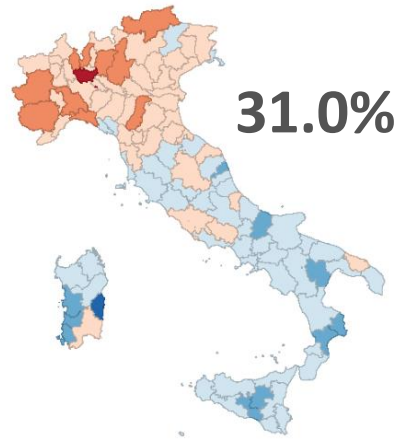
North-South intermodal divide



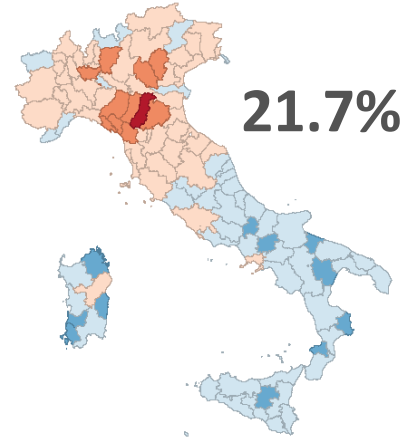
The hinterlands of the main Italian ports



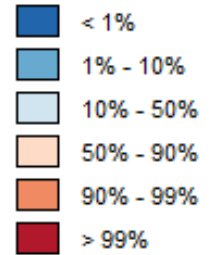
Mar Ligure Occidentale



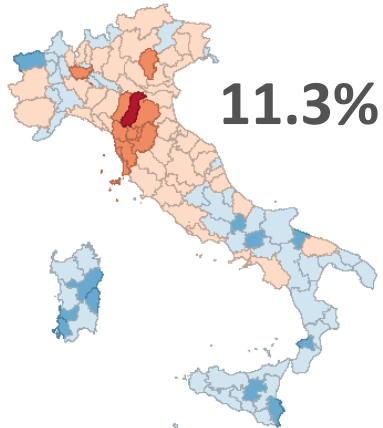
Mar Ligure Orientale



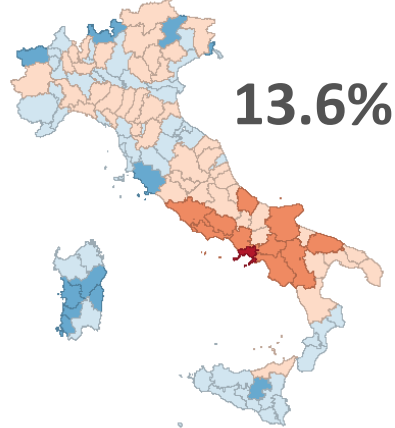
Percentiles



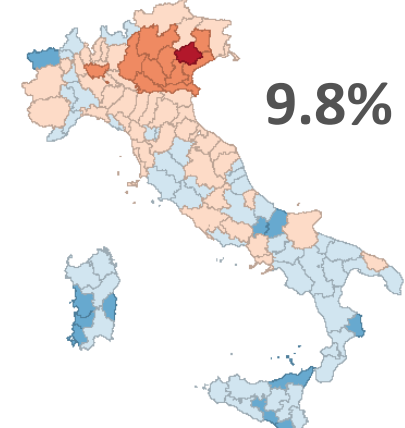
Mar Tirreno Settentrionale



Mar Tirreno Centrale



Mar Adriatico Settentrionale





Are Med ports really “closer” to Asia ?

1

Cargo does not follow the shortest Euclidean distance

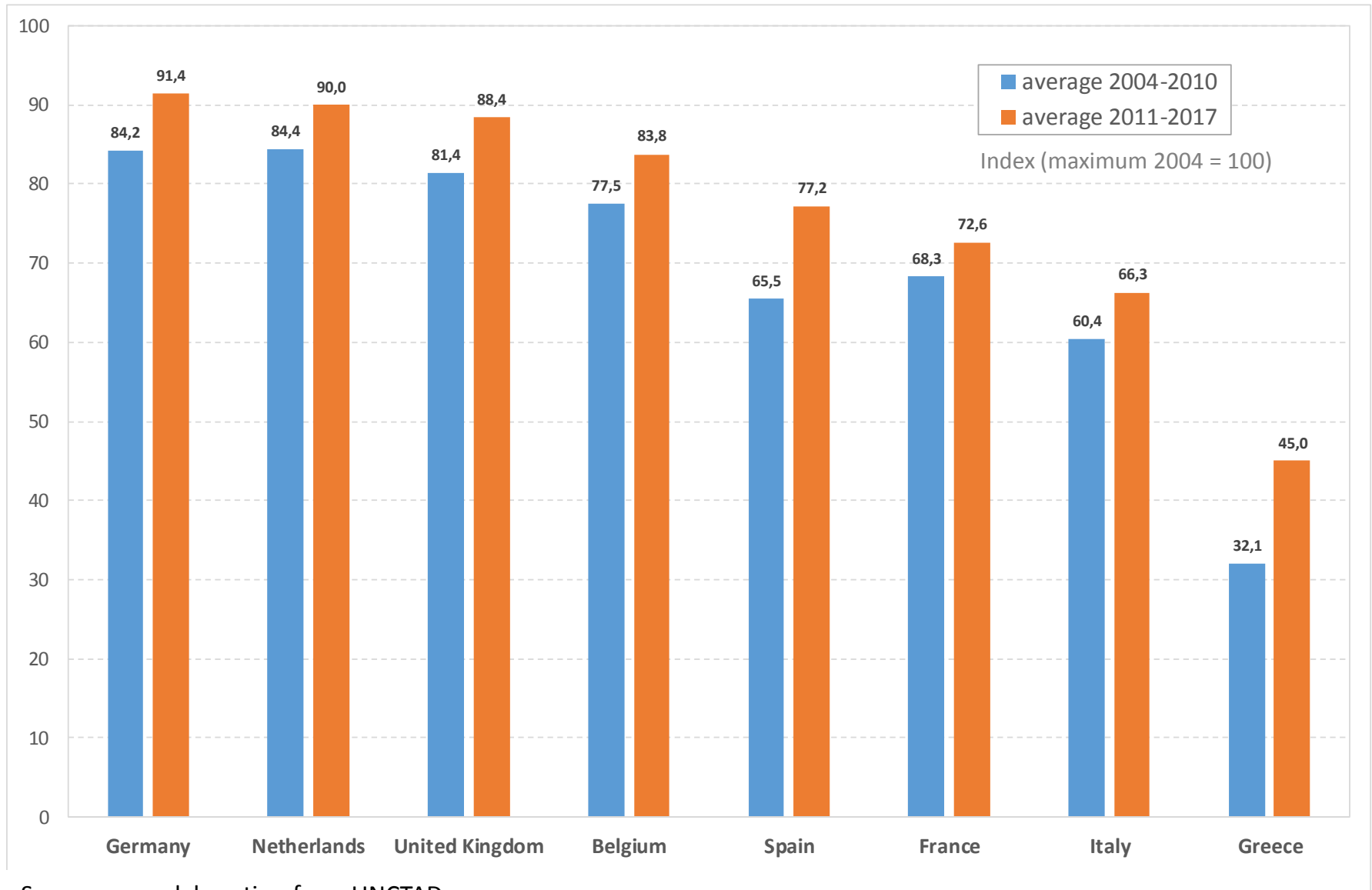


2

Cargo typically shows inertia in path changing



LSCI: trends in maritime connectivity



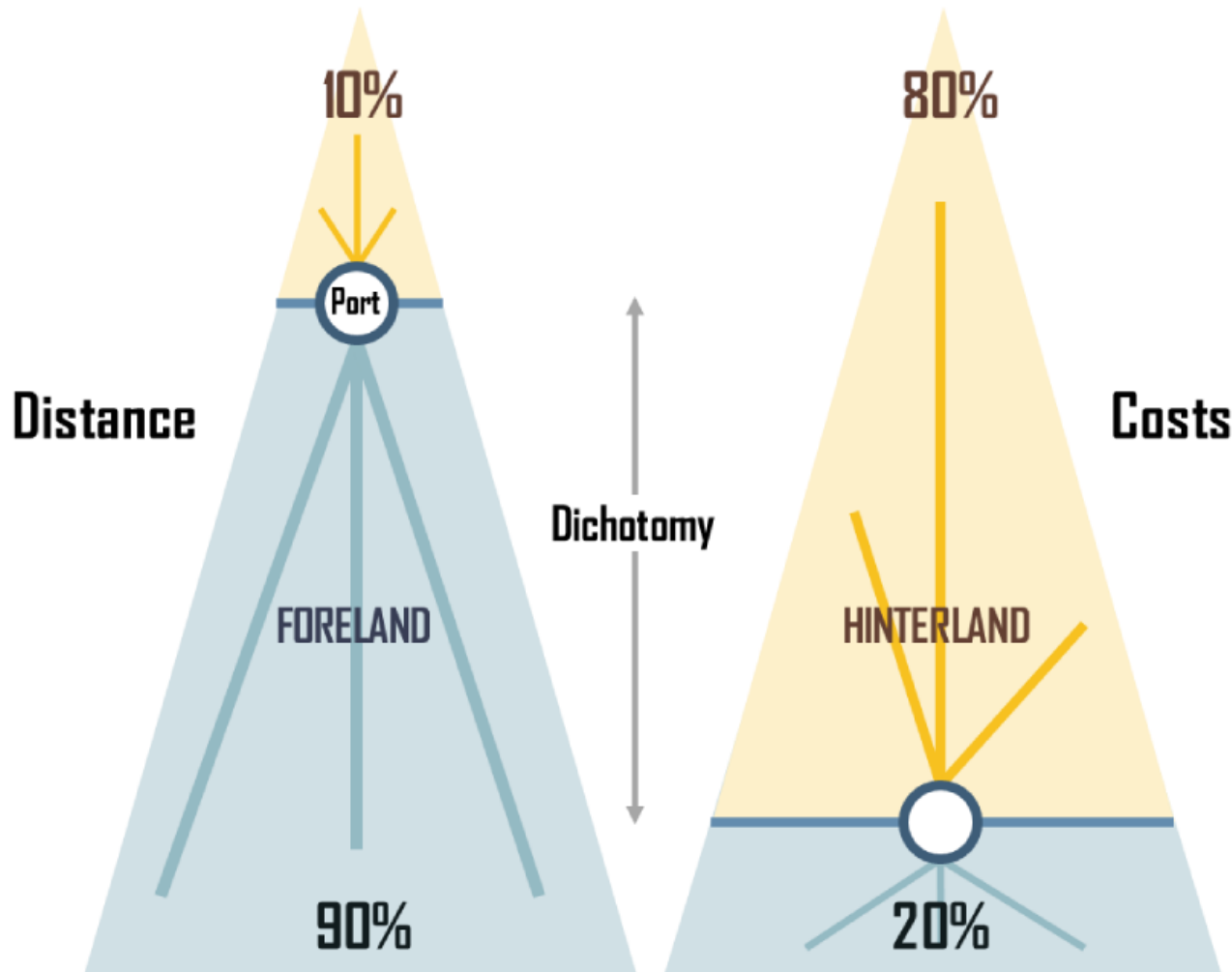
Source: own elaboration from UNCTAD.



Outline

- Trends in shipping and ports: implications for Europe
- North-South competition
- EU intermodal corridors
- Some potential game changers

Hinterland transportation is a bottleneck

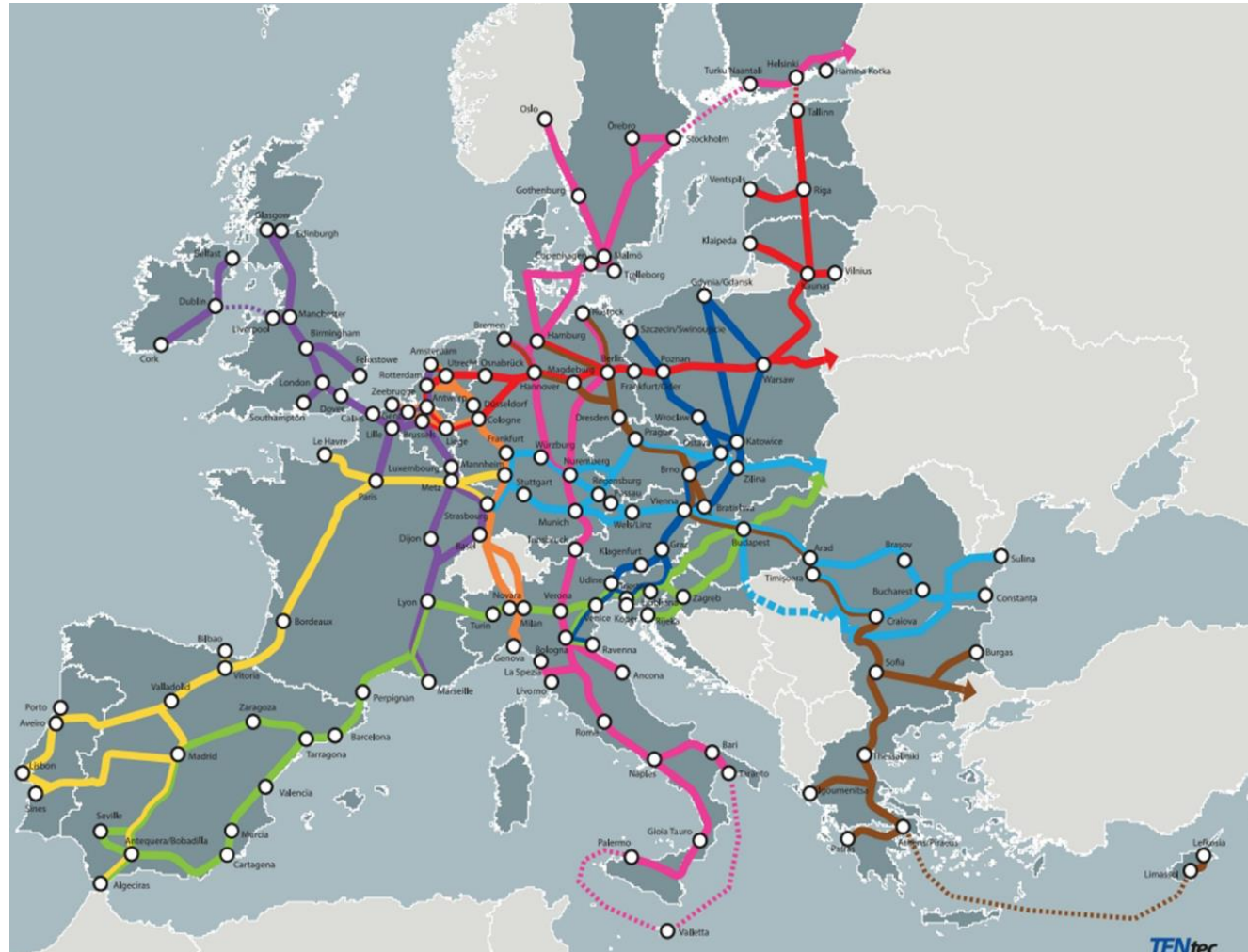


- High terminal costs
- Low-capacity trains
- Road congestion
- Insufficient capacity of infrastructures
- Customs clearance

The EU North-South corridors



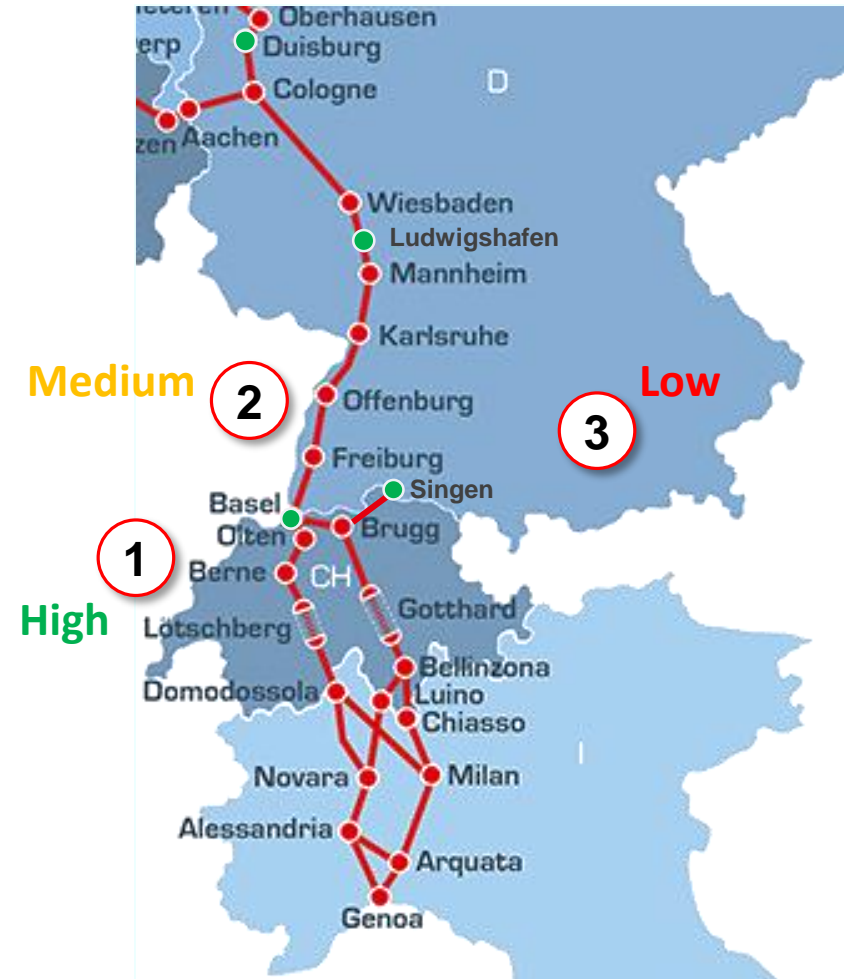
- Baltic Adriatic
- North Sea - Baltic
- Mediterranean
- Orient/East - Med
- Scandinavian - Mediterranean
- Rhine - Alpine
- Atlantic
- North Sea - Mediterranean
- Rhine - Danube



Genoa & the contestable markets abroad



- ① Switzerland
- ② Baden Wurttemberg
- ③ Bavaria



Degree of contestability **Low** **Medium** **High**

Potential inland terminals

- Basel
- Ludwighshafen
- Singen
- Duisburg



Outline

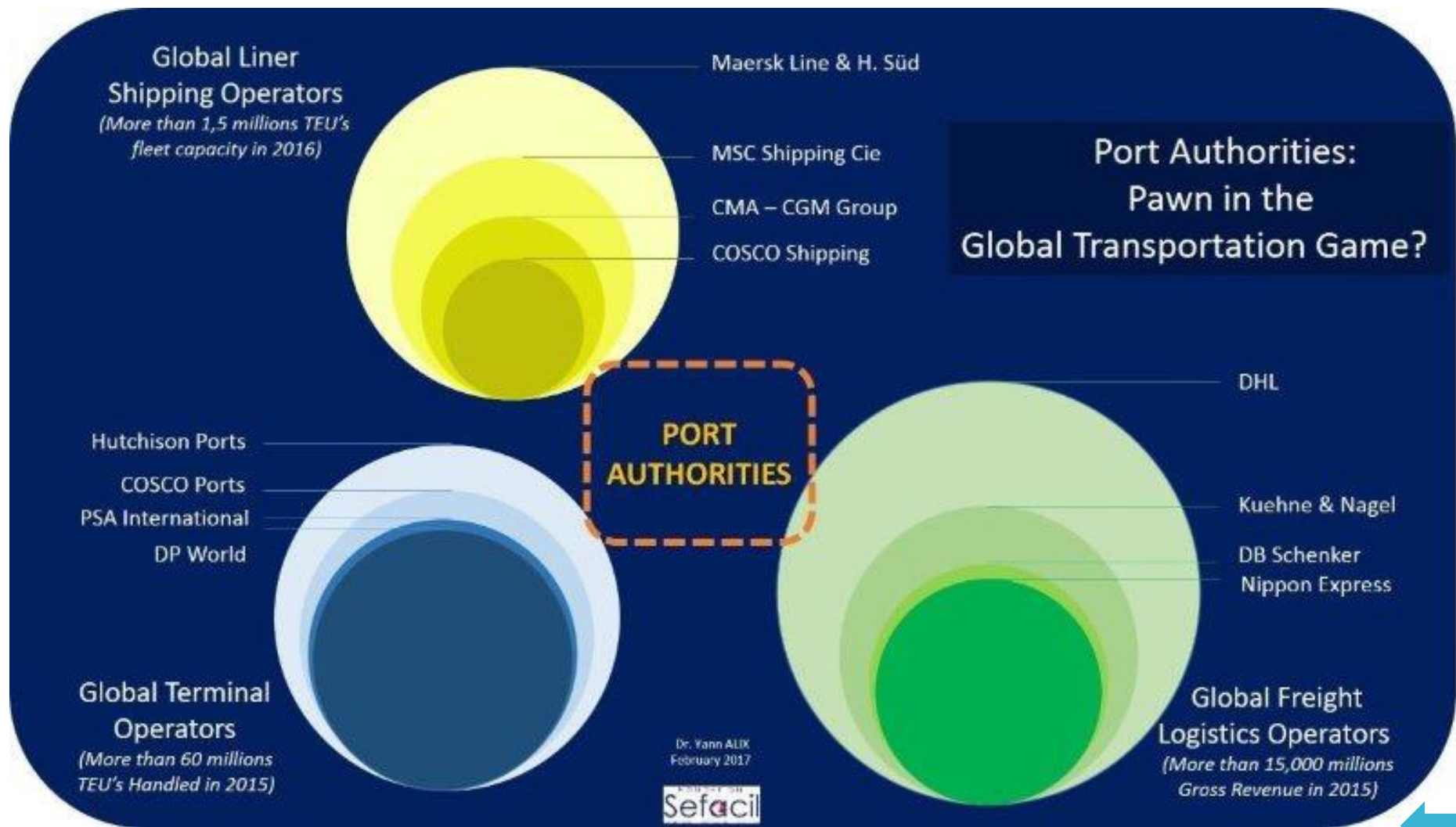
- Trends in shipping and ports: implications for Europe
- North-South competition
- EU intermodal corridors
- **Some potential game changers**

Some potential game changers

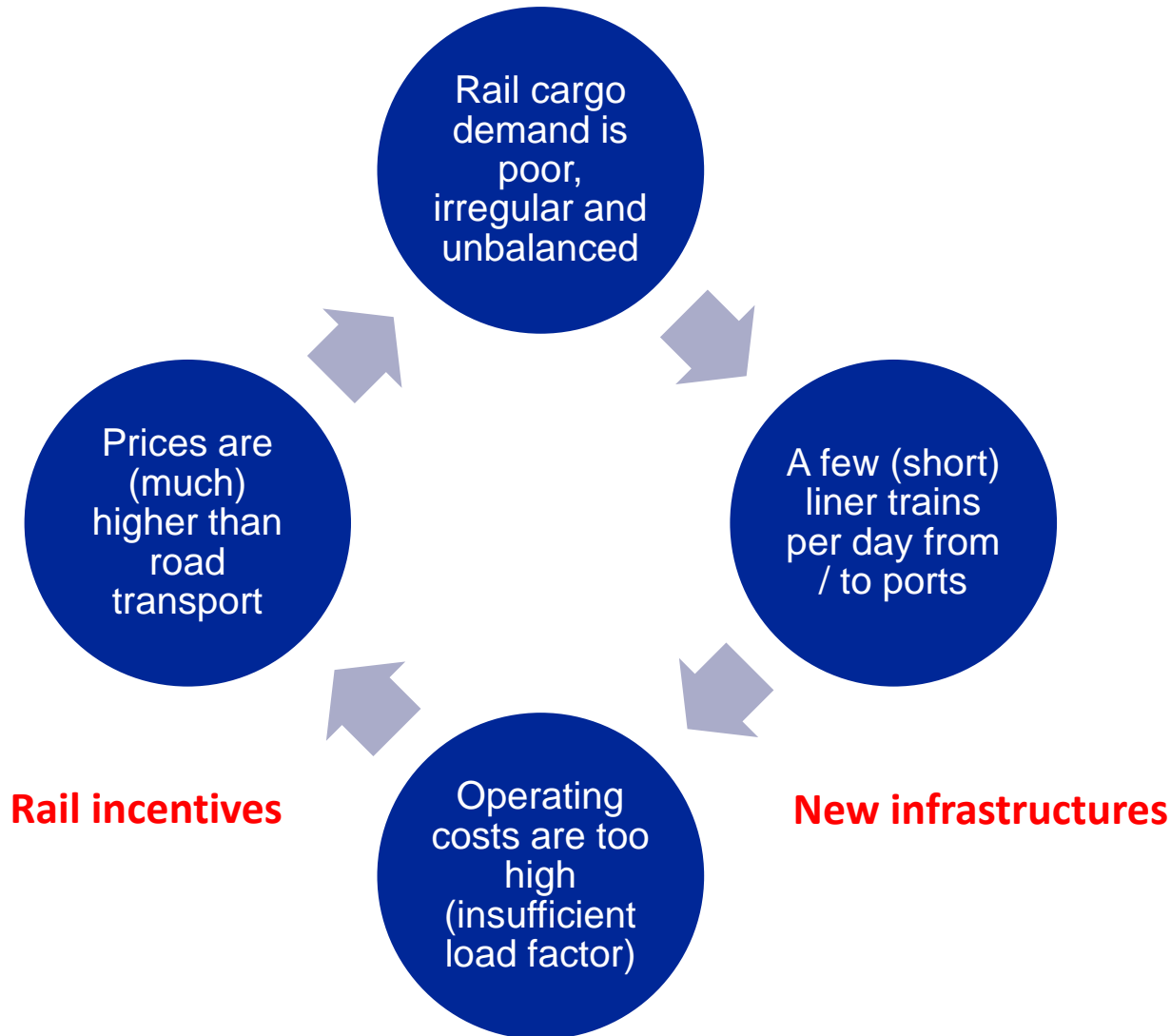


- Trends in mega-vessels, industry consolidation and survival (which role for PAs?)
- Intermodal challenge (e.g., exploring new markets, etc.)
- Asymmetric/unequal EU corridor development, i.e. timing in the realization of infrastructures, bottlenecks, missing links
- Governance and managerial efficiency/autonomy (central vs. peripheral, autonomy vs. hierarchy, public entity vs. corporation, financial autonomy vs public transfers, etc.)

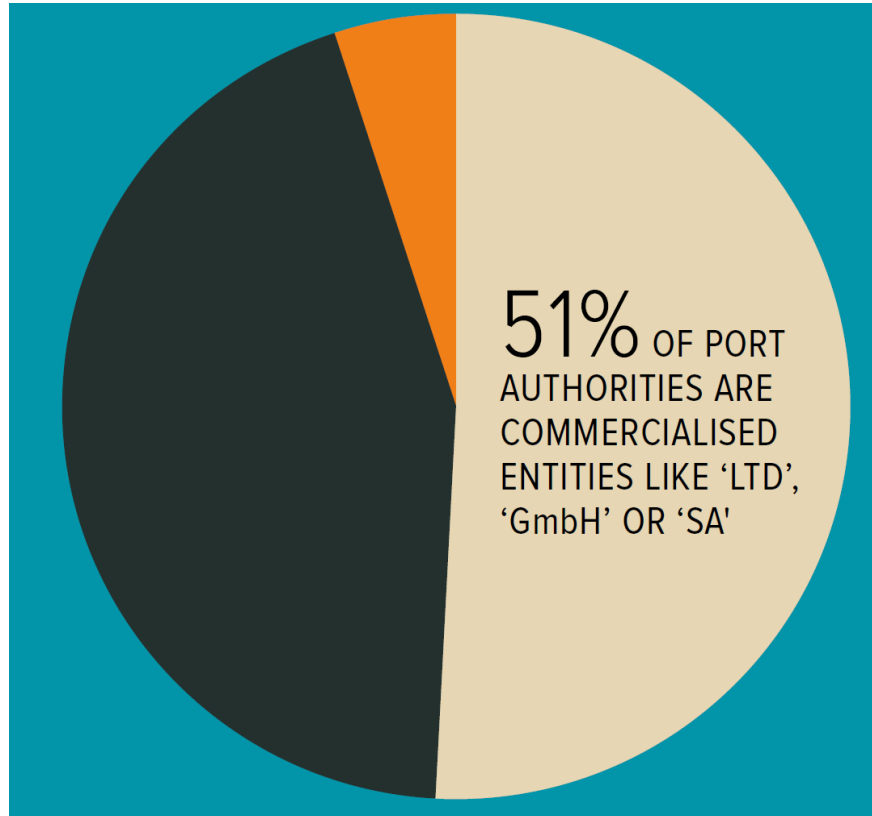
Port Authorities are under pressure



Intermodal challenge: A vicious cycle to dismantle...



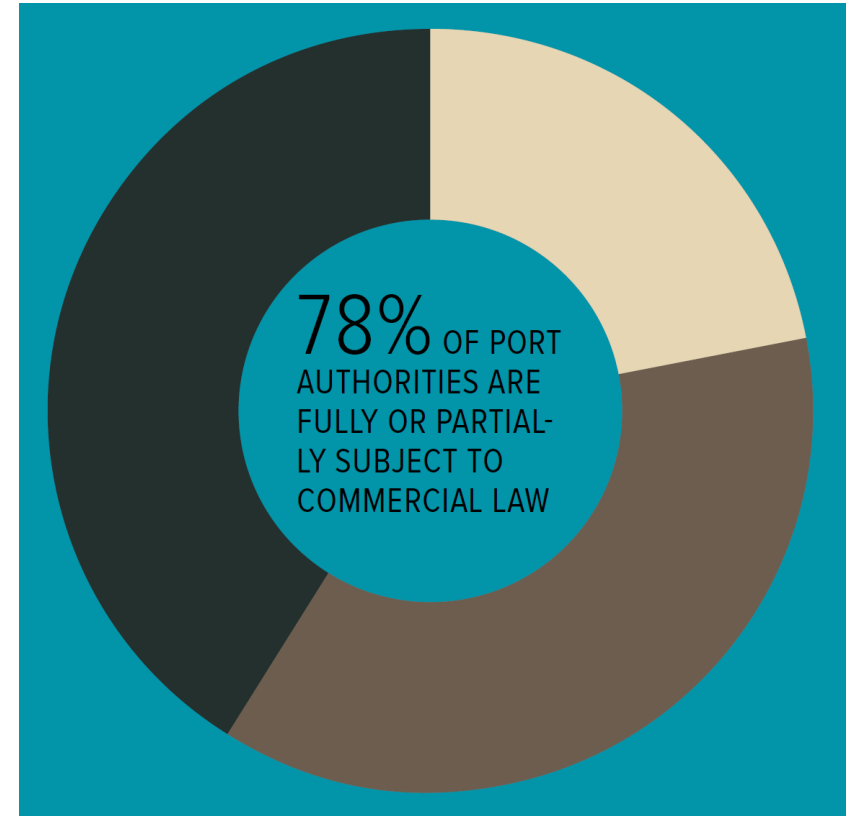
Managerializing Port Authorities



3

PORT AUTHORITIES BY LEGAL FORM

- 51% Limited companies
- 44% Independent public bodies
- 5% Other



4

PORT AUTHORITIES SUBJECT TO COMMERCIAL LAW

- 41% Fully subject
- 37% Partially subject
- 22% Not subject

Source: ESPO 2016 Report - Trends in EU ports governance



Livorno

April, 18th 2018

Thanks!

**Francesco Parola &
Giovanni Satta**

University of Genoa

parola@economia.unige.it

satta@economia.unige.it



www.porteconomics.eu/member/parola
www.porteconomics.eu/member/satta

