

International Workshop «Fostering Ocean Innovations» Naples, September 4, 2023

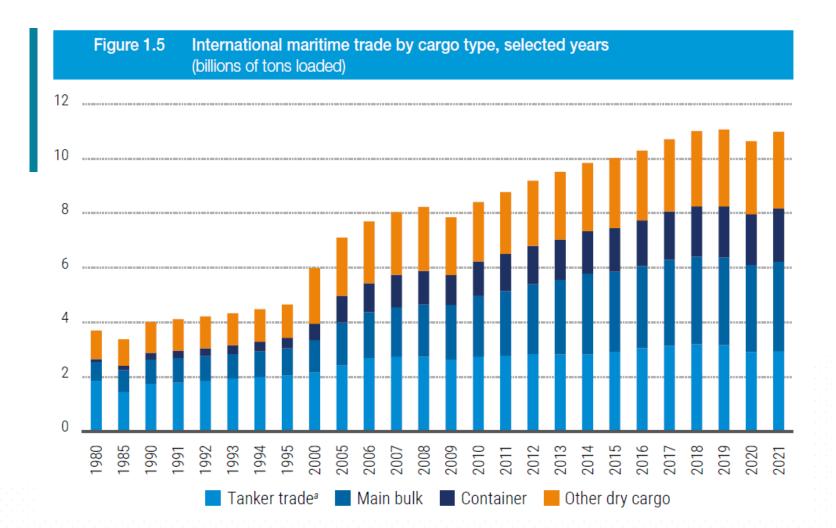
Mediterranean maritime port scenarios: the new challenges of sustainability

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Ports traffic in the world

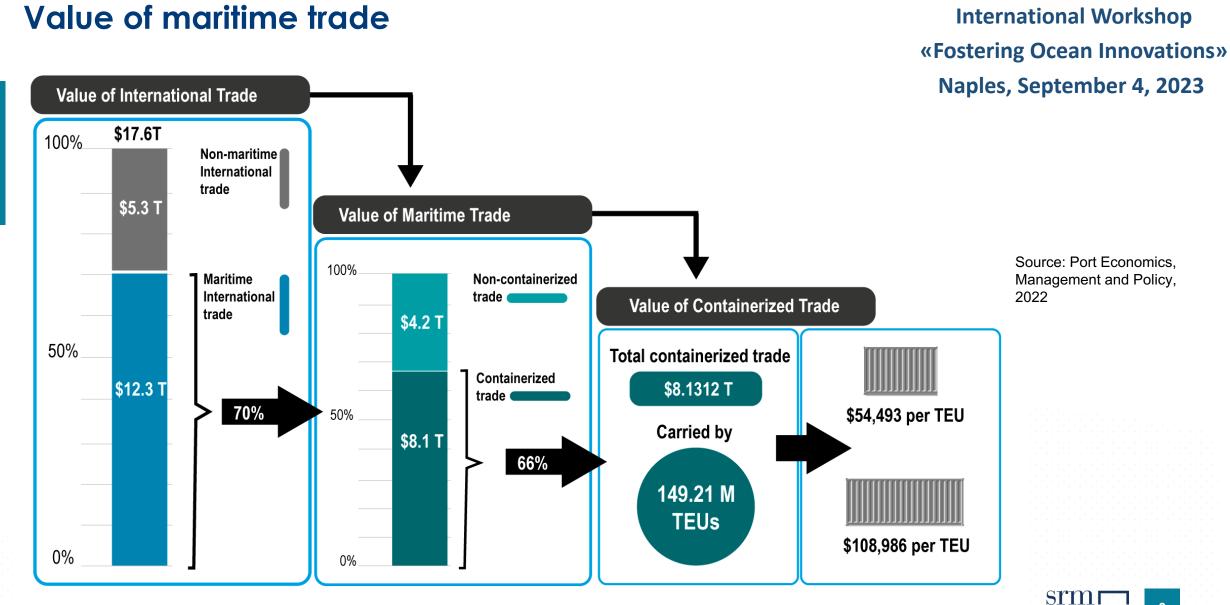




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Source: UNCTAD *Review of Maritime Transport*, various issues. For 2006-2021, the breakdown by cargo type is based on Clarksons Research, Shipping Review and Outlook, Spring 2022 and Seaborne Trade Monitor, various issues.

Note: 1980-2005 figures for "Main bulk" include iron ore, grain, coal, bauxite/alumina, and phosphate. Starting in 2006, "Main bulk" includes iron ore, grain and coal only. Data relating to bauxite/alumina and photosphate are included under "Other dry cargo". a) Tanker trade includes crude oil, refined petroleum products, gas and chemicals.





Outlook on italian ports

Goods handled by the Italian port system. Trend 2013-2022

Million tonnes





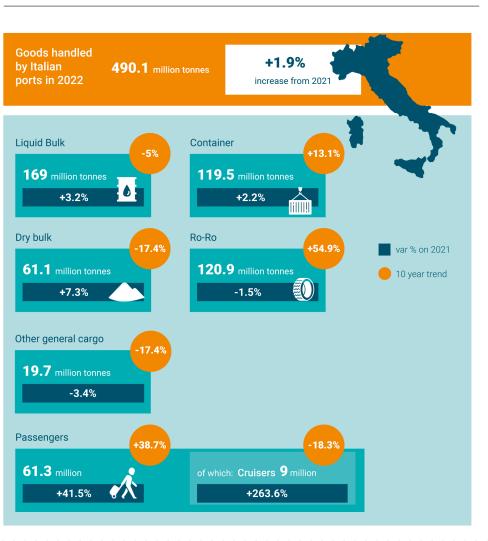
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Source: SRM on Assoporti. Maritime Annual Report 2023



Outlook on italian ports

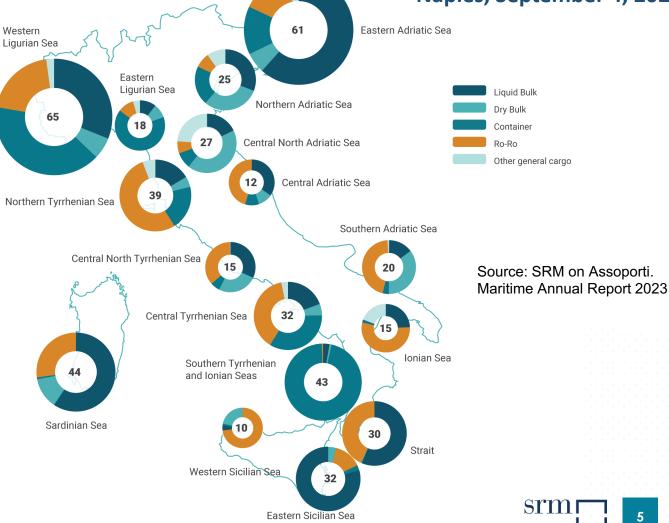




Goods (tonnes) and passengers (N) in the Italian port system by type between 2013 - 2022

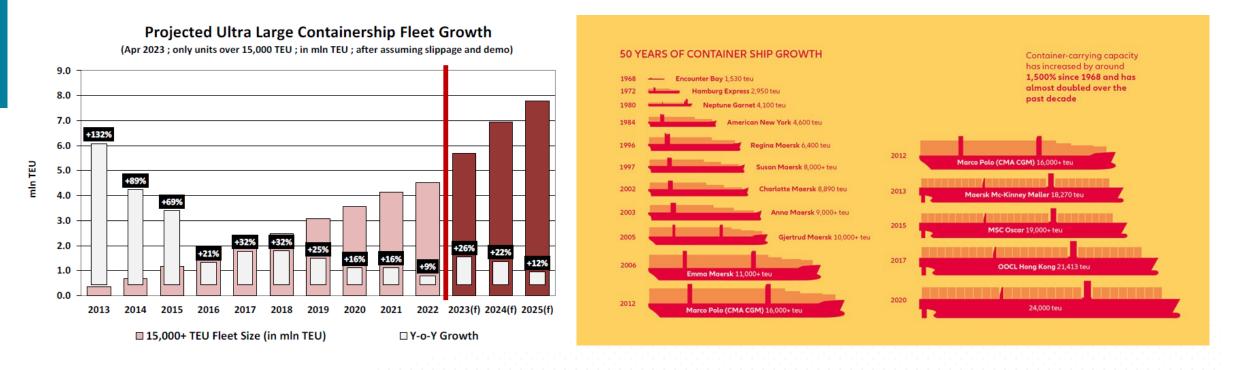
Million tonnes

International Workshop Traffic of the 16 Port Network Authorities by type of goods handled **«Fostering Ocean Innovations»** Naples, September 4, 2023





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Naval gigantism in container sector

Source: Banchero Costa

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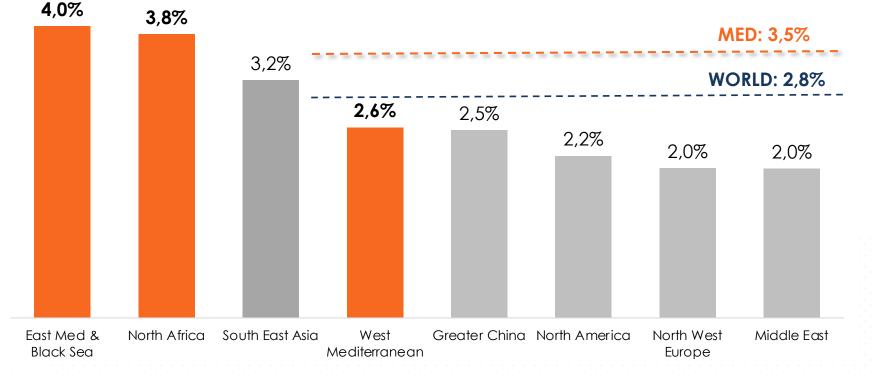
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In the next 5 years the Med area will grow more than the world average and China and North America.



Mediterranean will continue to grow

Tasso di crescita media annua* 2022-2027 | Traffico container



Fonte: SRM on Drewry

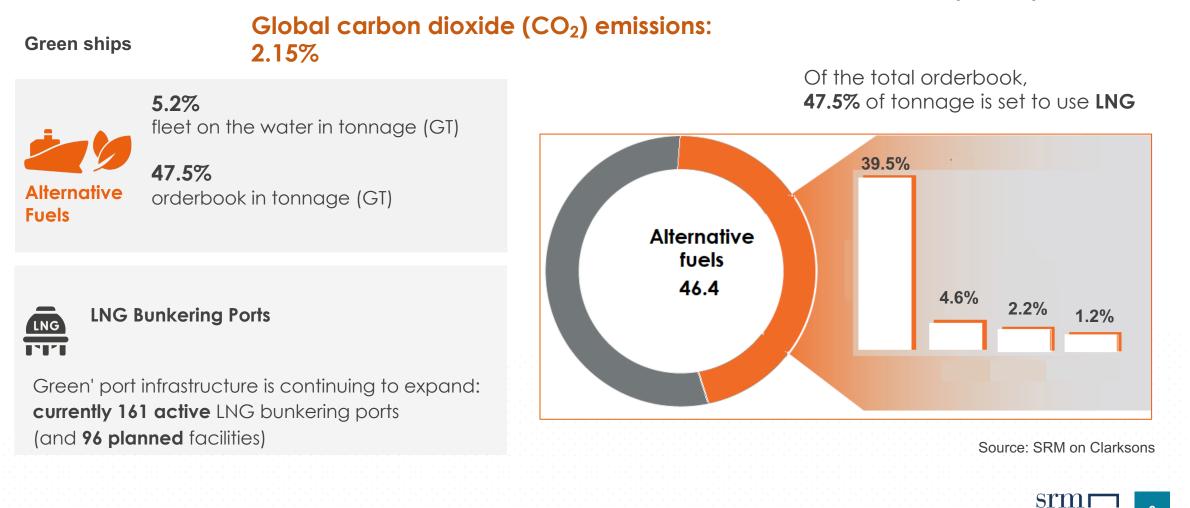
* (CAGR) Compound annual growth rate





The shipping transition: a new model of ships and ports

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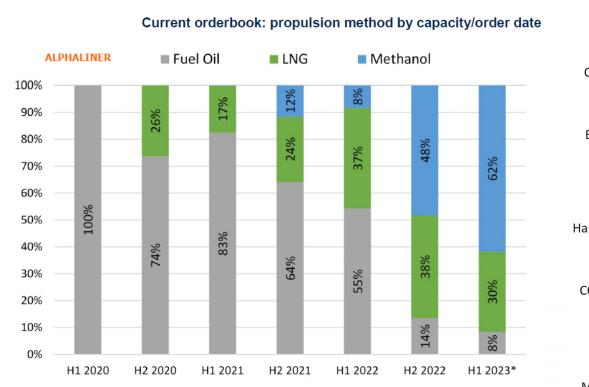


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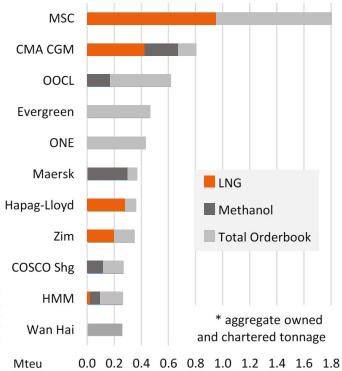
The shipping transition: a new model of ships and ports

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Green ships

Fuel Oil, LNG and Methanol propulsion: orderbook by carrier*

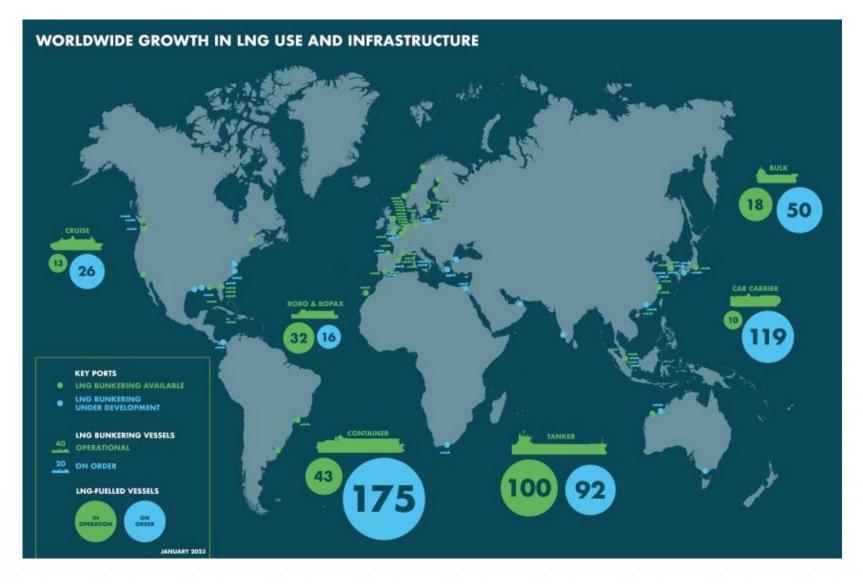


Shipowners are ready to invest more and more in new generation vessels powered by alternative fuels which can make ships more efficient and reduce their environmental impact.

 An estimated \$3 trillion is needed to decarbonise the sector.

Source: SRM on Alphaliner

LNG In the World





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Source: Banchero Costa

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LNG infrastructure in Europe





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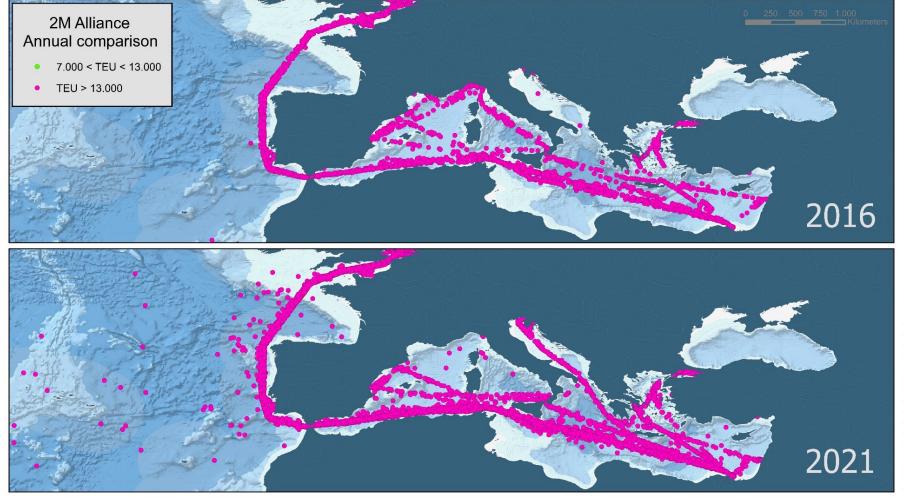
Source: EU Commission



The routes of 2M Alliance – Mediterranean Sea (TEU > 13000)



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Source: SRM

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The Green Ports

A new port model Cold focusing on: Ironing Attraction of Renewables Modal sustainable Energy shift investments Efficiency Innovation **I** Resilient Reduction CO_2 docks to of CO2 climate emissions change

Decarbonisation targets can be achieved not only thanks to the efforts of the shipping industry but also through:

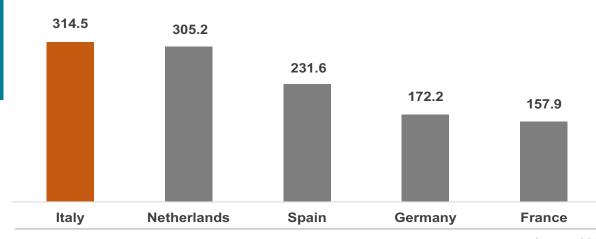
- ✓ rail connectivity,
- ✓ development of SSS and Ro-Ro,
- Ports strategic hubs to foster the energy transition,
- ✓ 9,2 billion euros of new investments in Italian Ports.

Source: SRM



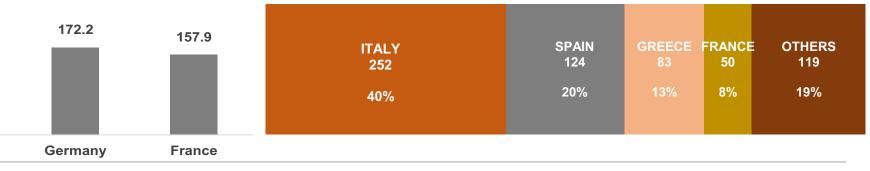
SSS Italy rank first in Euro-Med

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Italy is leader in EU27 SSS (MIn tonnes)

Goods handled in SSS in the Med area (MIn tonnes and % in total)



Source: SRM on Eurostat

Italy is leader in the EU for short routes, a more functional mode for achieving **sustainability** goals and implementing **regional supply chains**.

Gaining Sustainability through Ro-Ro (SRM-ALIS) in Europe

- 2.5 million trucks moved from road to sea;
- 67 tonnes of goods moved from road to sea;

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- 2.8 million co2 abated over an 800 km route.

Med Ports are not only logistics nodes ... but also strategic energy hubs

Ports are

- crucial infrastructure for regulating the functioning of the energy market:
 they take on the role of primary locations for production, storage and trade of oil&gas;
- entrance points of oil & gas pipelines flowing into Southern Italy;
- energy gateways: refineries are access points to hydrocarbon transportation infrastructure and are usually located near ports; Oil and Chemical need to be converted into biofuel and biochemical.
- Ports are close to energy-intensive industries where hydrogen can be use;
- energy communities: they facilitate the energy transition process of shipping and logistics.

North Africa is considered to be, in perspective, **a producer and exporter of green hydrogen** and other Power-to-X fuels due to its proximity to Europe and its abundant solar and wind energy



NRPP Funds for Italian Ports



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Maritime accessibility



Selective increase in port capacity



Last/penultimate rail/road mile



Energy efficiency

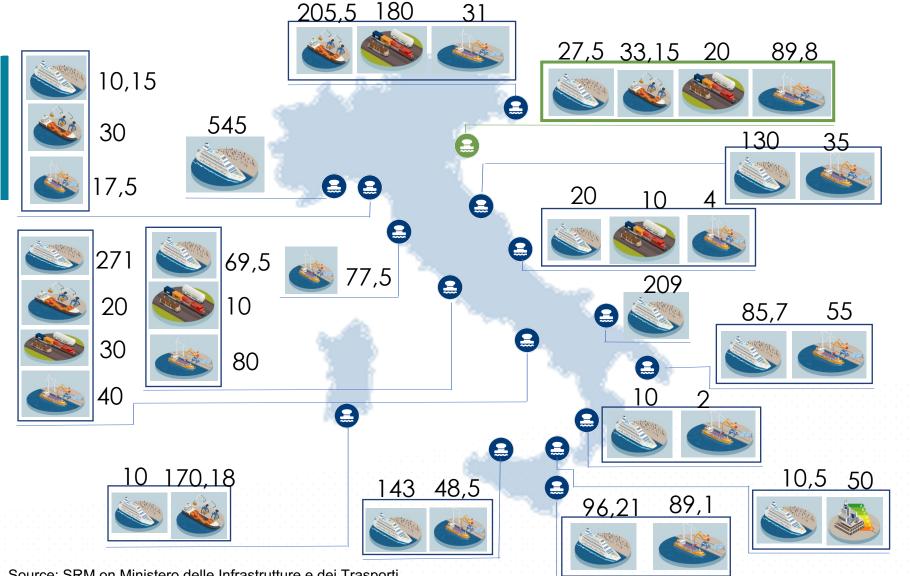


Cold ironing

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Source: SRM on Ministero delle Infrastrutture e dei Trasporti





BiG OECD



Thank you for your attention



Please visit SRM website for any further information on Maritime Observatory





