

“Fit for 55” in Shipping

Maja Markovčić Kostelac /
Executive Director of EMSA

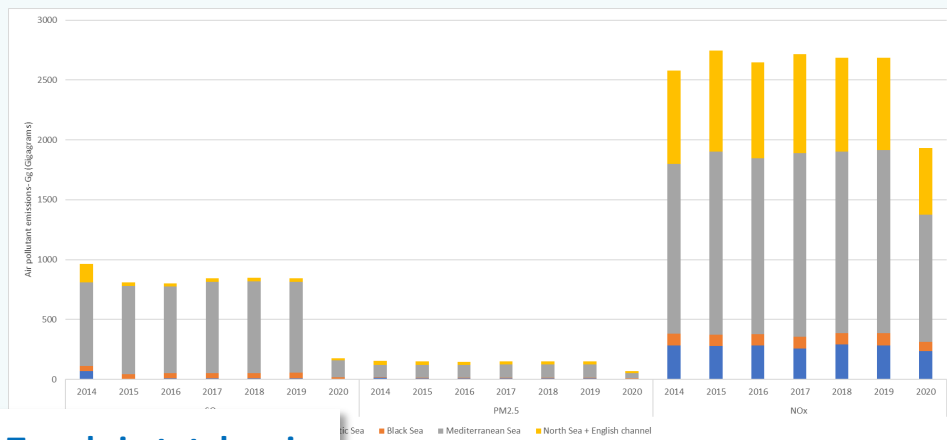
EISAP Conference / 11 May 2022, Lisbon



Current situation



Contribution of Shipping



Trends in total main air pollutant emissions from ships by European sea area

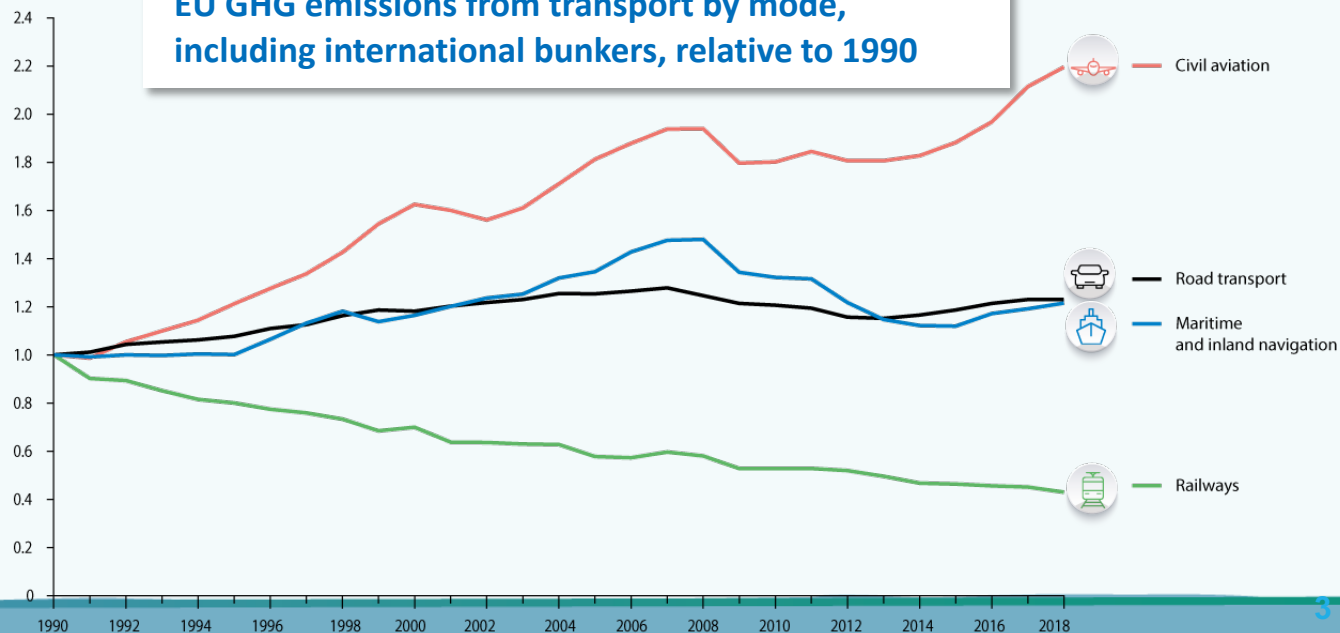
SO_x PM NO_x

Maritime Sector

CO₂ Emissions 2020
126 050 000 000
metric tons

Index 1990=1

EU GHG emissions from transport by mode, including international bunkers, relative to 1990



International and EU perspective on Climate change



EU targets on Climate change:

- **2030** - Reduce emissions by at least 55% when compared to 1990
- **2050** - Europe to become the world's first climate-neutral continent



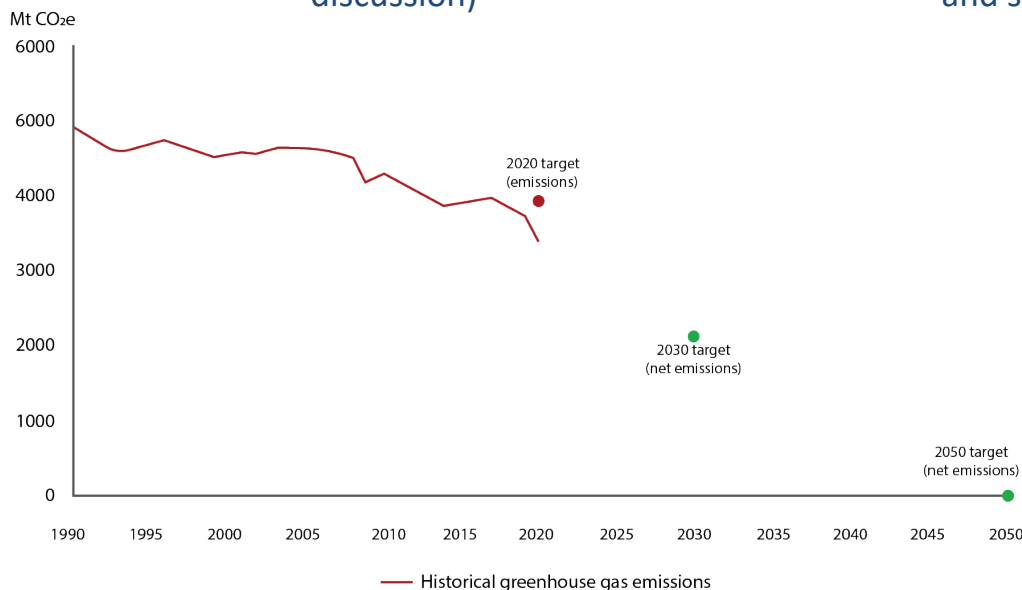
IMO GHG Initial GHG Strategy:

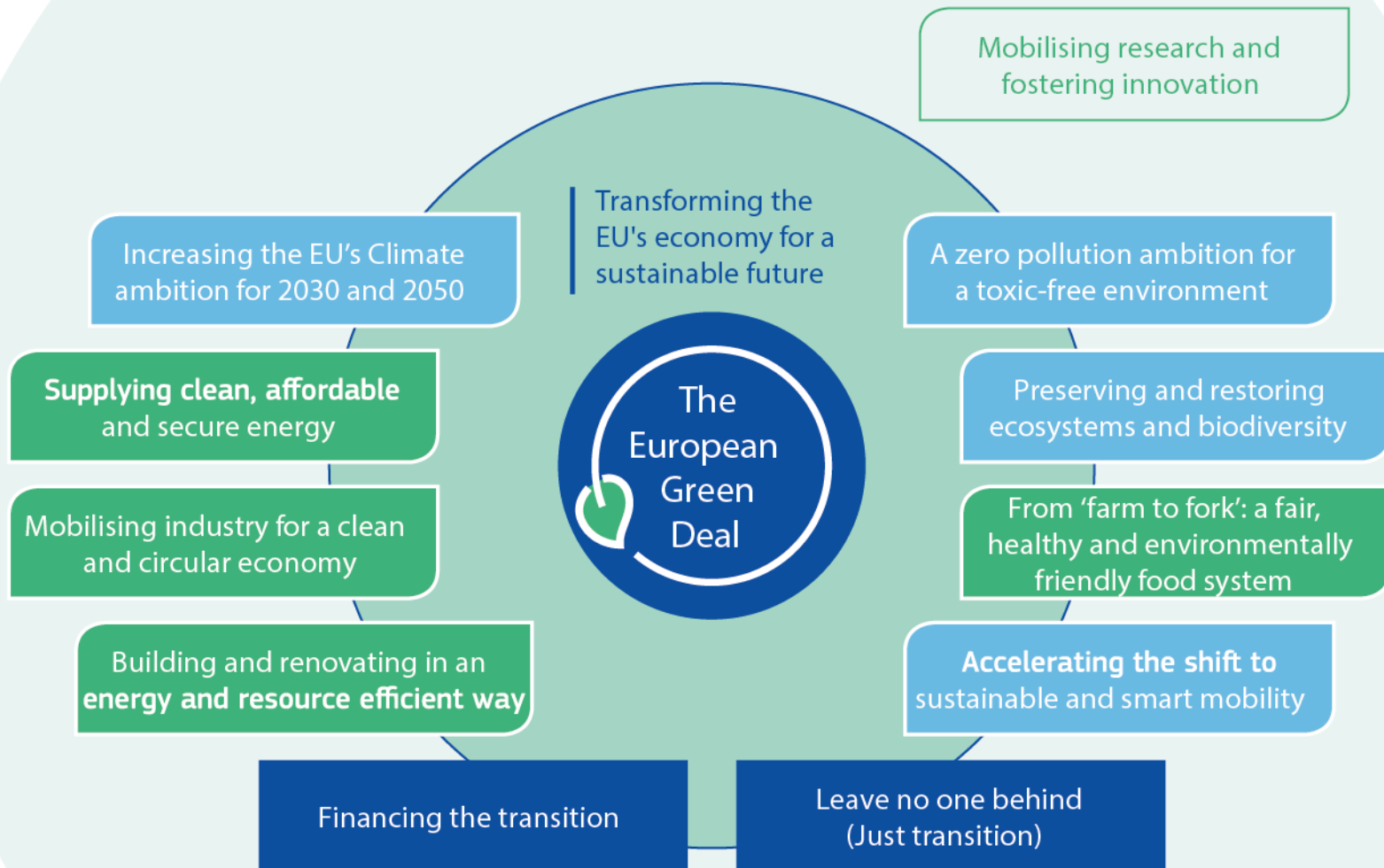
- **2050** – Reduce emissions by at least 50% compared to 2008
- **2050** – Possibly target net zero emissions from shipping (under discussion)



UN Sustainable development goals:

- climate action (SDG13),
- Life below water (SDG14),
- responsible consumption and production (SDG12) and clean water and sanitation (SDG6).

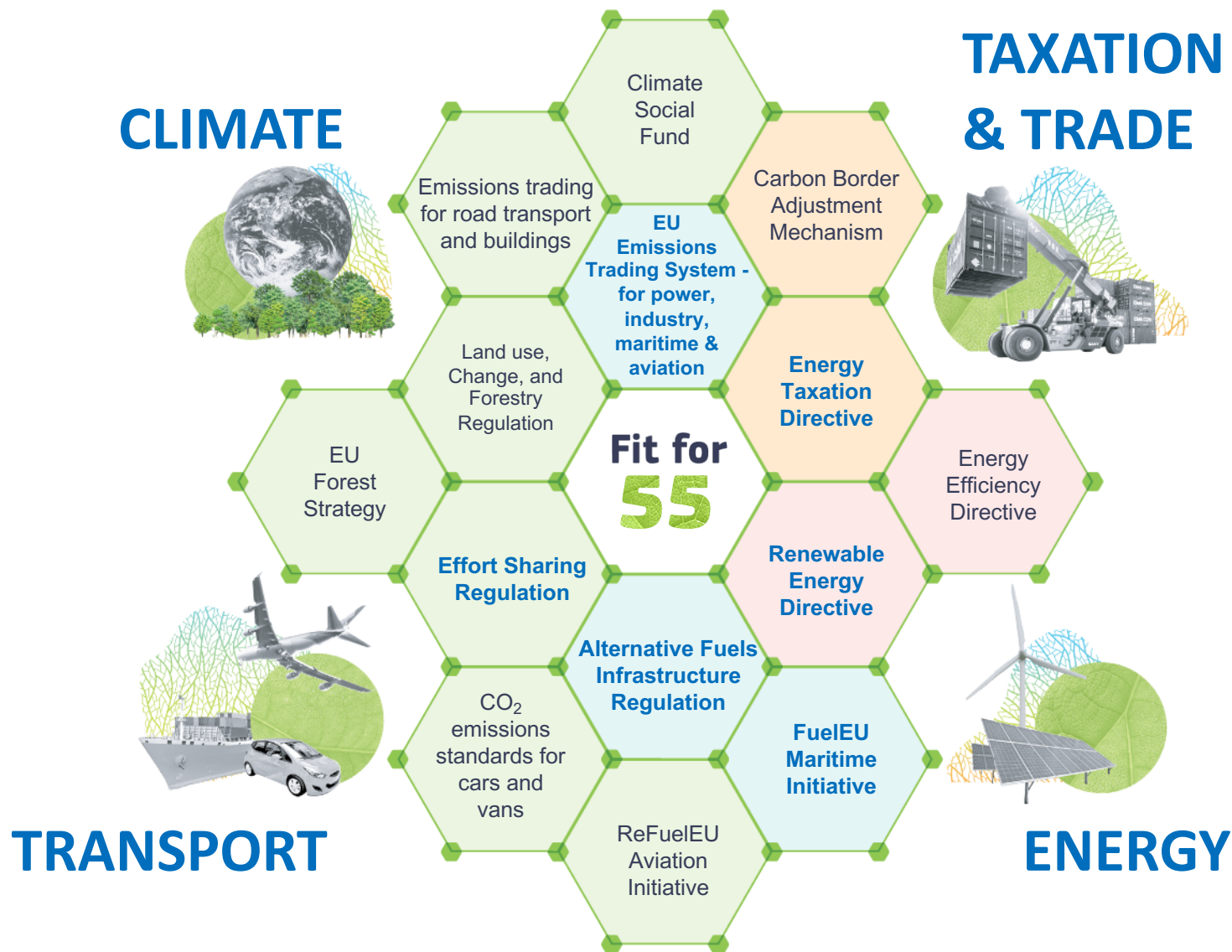




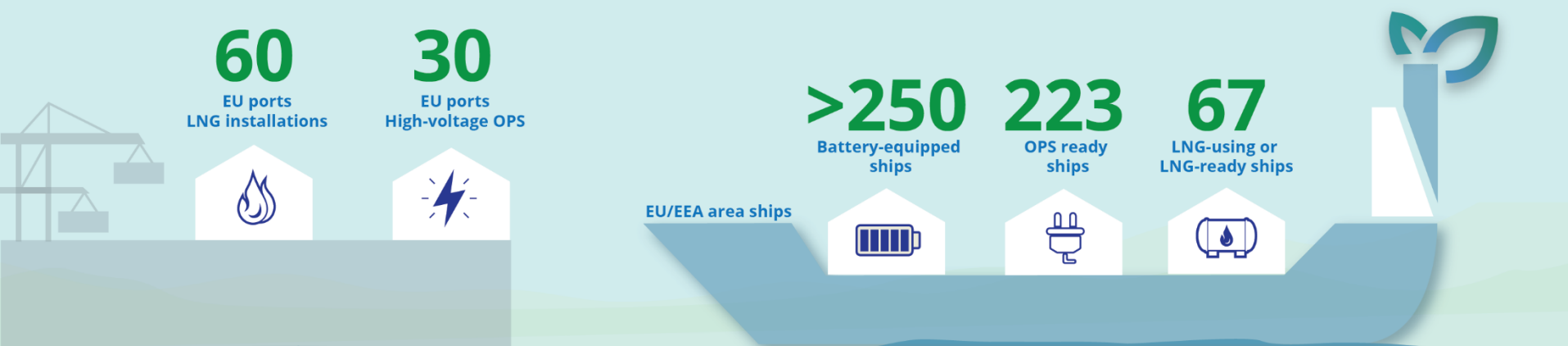
The EU as a
global leader

A European
Climate pact

“Fit for 55” package



- Limits the GHG intensity of the energy used on-board
- Obligation to use OPS or zero-emission technology from 2030
- Targets established in 5-year intervals from 2025 until 2050

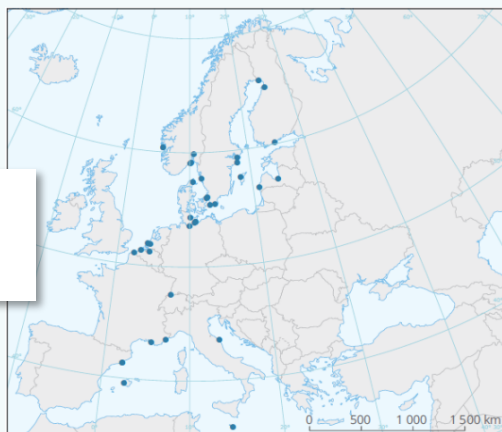


Alternative Fuels Infrastructure

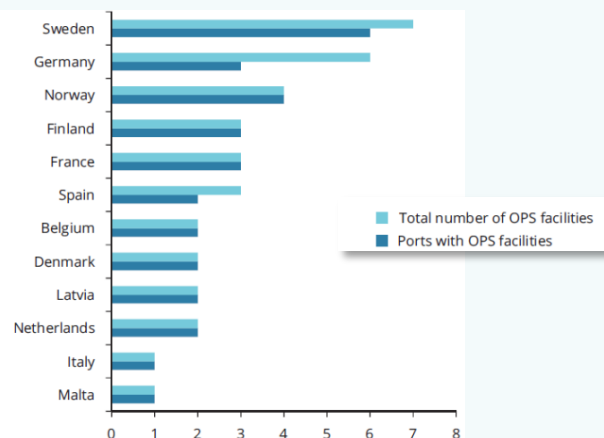
OPS



Number of ports and Onshore Power Supply facilities in the EU



Reference data: ©ESRI



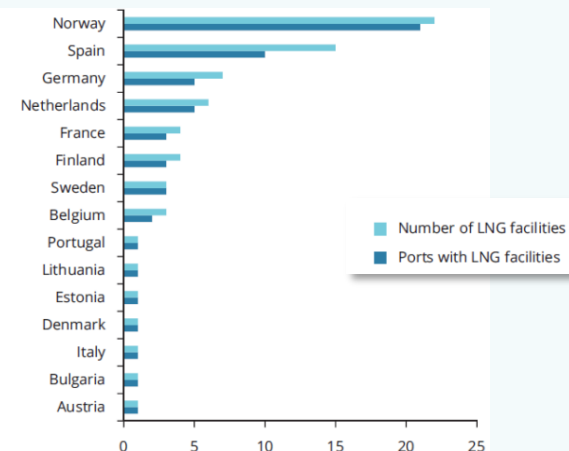
LNG



Number of ports and Liquefied Natural Gas facilities in the EU



Reference data: ©ESRI





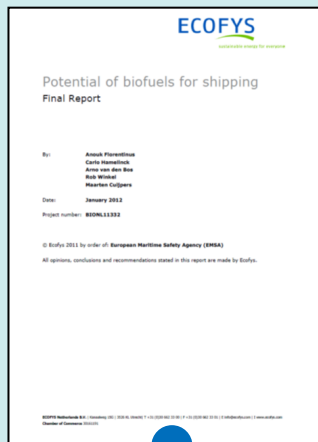
Cap-and-trade' system: puts a price on GHG emissions to harness economic forces

Covering around **2/3 of CO₂** emissions related to EU maritime transport

Applicable **to large ships** (above 5000 gross tonnage) regardless of the flag they fly

ETS-funded Innovation Fund for ships and ports

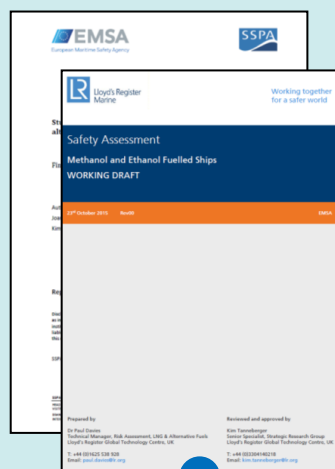
Alternative Fuels Power Solutions



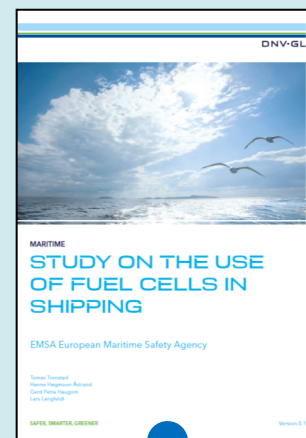
**Potential of
Biofuels in
Shipping**



**Study on
Standards &
Rules for
Bunkering of
LNG fuelled
ships**



**Study on the
use of
Ethanol &
Methanol in
shipping**



**Study on the
use of Fuel
Cells in
shipping**

All EMSA Studies available:

<http://www.emsa.europa.eu/main/air-pollution/alternative-fuels.html>



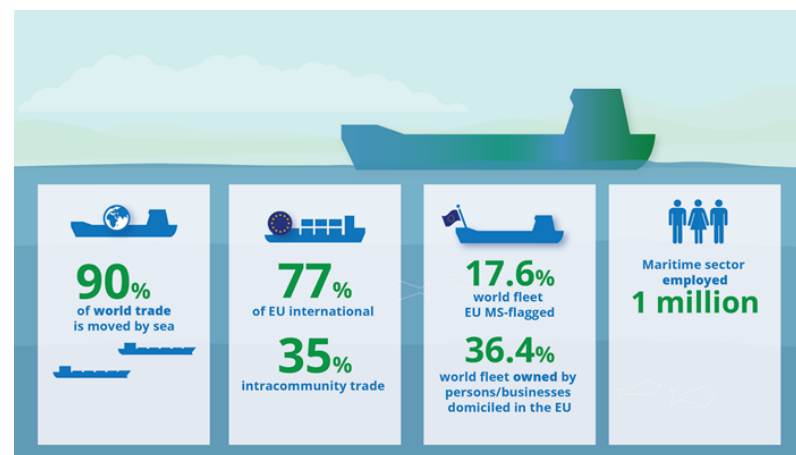
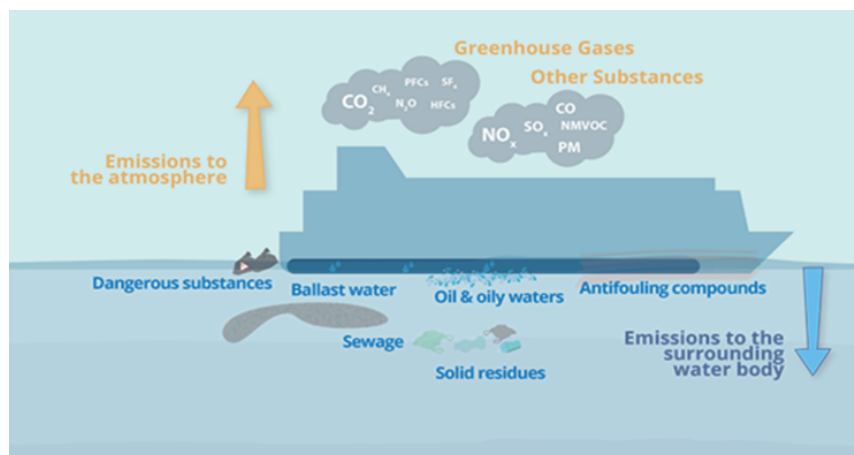


To be launched in Q3 2024

European Maritime Transport Environmental Report

EMTER 2.0 to focus on bridging information gaps and will include cross-sectorial opportunities & challenges to further support the transition to sustainability of the maritime transport sector (fisheries, ports, supply chain, circular economy).

Strengthen cooperation and the active involvement of stakeholders: creation of an EMTER Stakeholder Platform (ESP), a forum for co-creation.



<http://emsa.europa.eu/emter.html>



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European Maritime Safety Agency