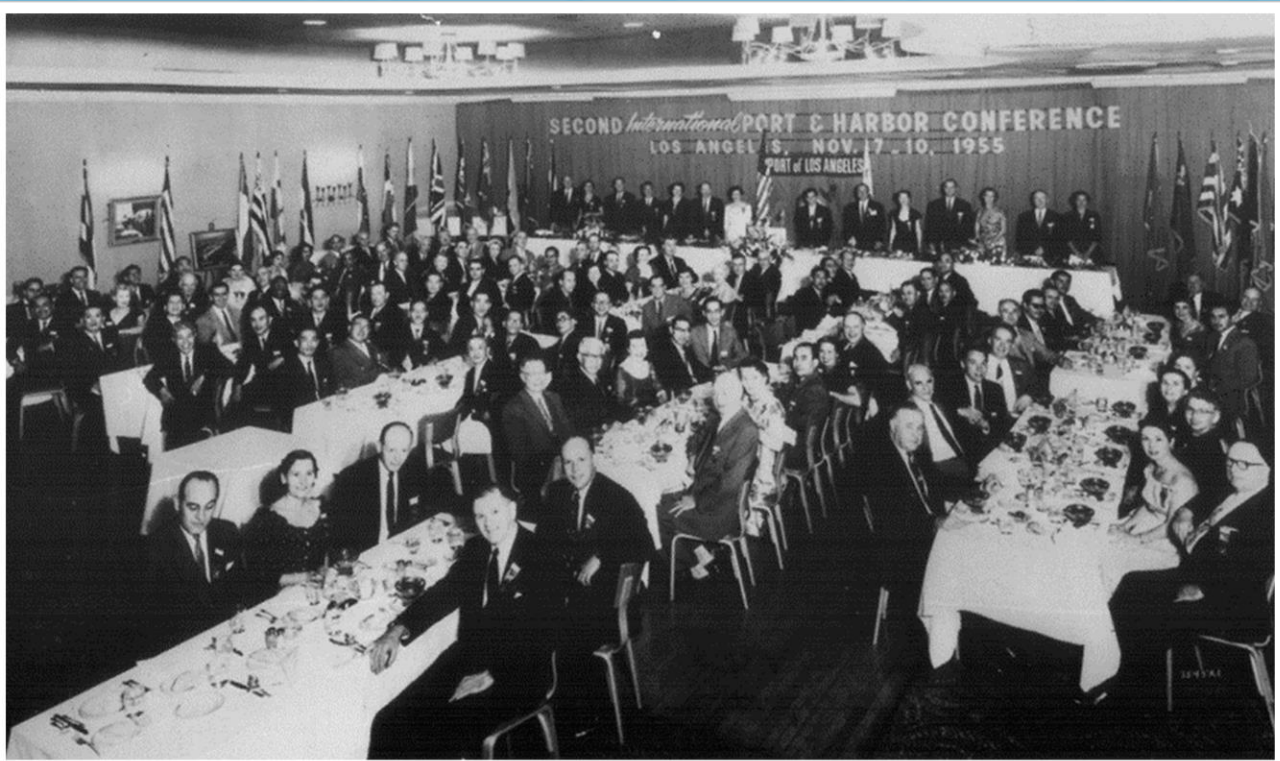


IAPH work on the decarbonization of ports and shipping



MIAL Maritime Decarbonisation Summit- 12 October 2022

Antonis Michail, Technical Director IAPH / WPSP



Founded in 1955, IAPH is the global port alliance, representing today around 170 port regular members and 126 associate members linked to ports in 87 countries. Together, IAPH port members handle more than one third of global maritime traffic and more than 60% of container traffic.

IAPH has a consultative status and represents the interests of world ports at IMO and additional UN agencies such as the ILO, UNCITRAL, UNCTAD (UN Conference on Trade and Development), UNEP (UN Environment Program) and the UN Global Compact.

IAPH works closely with the World Bank, and World Customs Organization, the Global Maritime Forum, and World Economic Forum.


Three strategic focus areas: Risk and Resilience, Data Collaboration, Climate and Energy

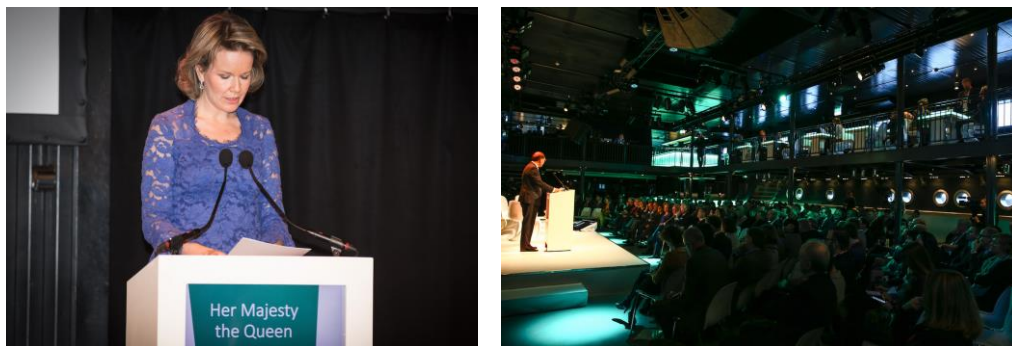


World Ports Sustainability Program

Mission : To integrate the 17 UN SDGs in port governance



 www.sustainableworldports.org



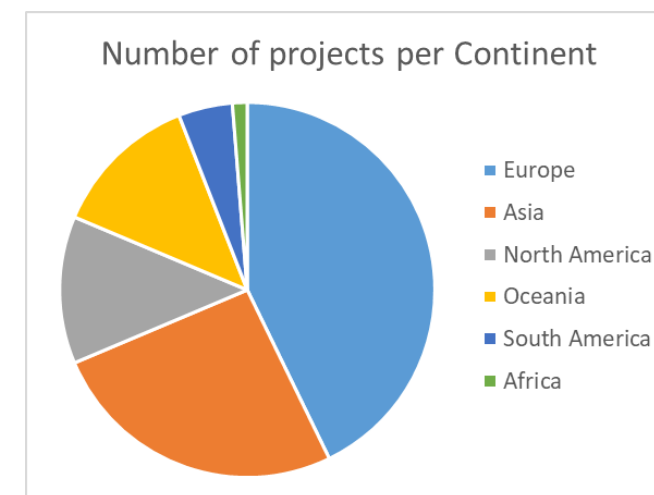
WPSP Database of sustainability projects



✓ **240 projects**

✓ **110 ports**

✓ **47 countries**



IAPH Sustainability Awards – 2022 winners



#IAPH2022 SUSTAINABILITY AWARDS FINALISTS

CLIMATE & ENERGY



- Fiji Ports - Green Port Initiative
- Port of Colombo - GHG Emission Reduction Project
- DP World Posorja - Mangrove Reforestation Project

DIGITALIZATION



- Collaborative project - MAREMIS
- Port of Antwerp - Automated drones to prevent pollution
- Collaborative project - PASSport

ENVIRONMENTAL CARE



- Port of Seattle - Ocean Acidification Action Plan
- Port of Tacoma - Lower Wapato Creek Habitat Project
- Hamburg Port Authority - SeaClear Project

HEALTH SAFETY & SECURITY



- Port of Montreal - CargO2ai
- Port of Amsterdam - Multi fuel Port / Spatial Safety
- Northport (Malaysia) Bhd - Journey towards HSE excellence

INFRASTRUCTURE



- Port of Rotterdam - Flood Risk Management Programme
- Port of Vigo - Living Ports
- Vancouver Fraser Port Authority - Maplewood Marine Restoration Project

COMMUNITY BUILDING



- Solomon Islands Ports Authority - Renewable Energy for a Sustainable Community
- Freeport of Riga Authority - Ghetto Games street sports and culture movement
- Johor Port Authority - Community Empowerment through Science and Research

WPSP Portfolio – Climate and Energy

Gladstone Ports Corporation – Tidal Energy Demonstration

AUSTRALIA 2018

CLIMATE AND ENERGY

Flinders Port Holdings – Climate Adaptation Strategy

AUSTRALIA

2021

CLIMATE AND ENERGY

INFRASTRUCTURE



Ports Australia – Port Sustainability Strategy Development Guide

AUSTRALIA

2020

COMMUNITY BUILDING

ENVIRONMENTAL CARE

Solomon Islands Ports Authority – Renewable Energy for a Sustainable Community

SOLOMON ISLANDS

2021

CLIMATE AND ENERGY

COMMUNITY BUILDING

<https://sustainableworldports.org/submit-your-project/>

Hydrogen related projects – CEM Coalition



Port of Vienna – H2 meets H2O project



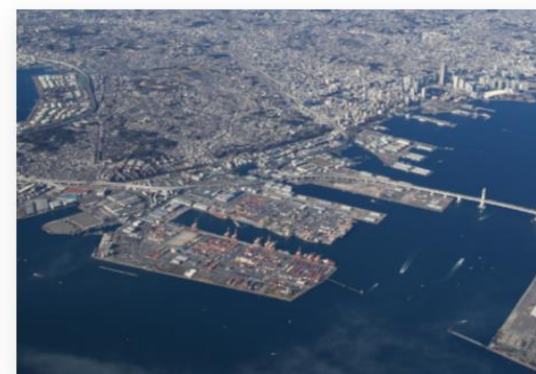
Port of London Authority – Hydrogen Highway project



Port of Amsterdam – Multi Fuel Port: Spatial Safety



Port of Gothenburg – Hydrogen production facility and filling station



Port of Yokohama – Hydrogen Supply Chain Joint Study



Port of Los Angeles – Zero Emissions Pathway Technology Demonstrations



IAPH Technical Committee on Climate and Energy

1. IMO political process on GHG emission reduction from ships
2. Own IAPH initiatives (ESI, CMF)
3. Coordination of and contribution to the various initiatives on decarbonizing ports and shipping



GREEN VOYAGE
2 0 5 0



Getting to Zero
Coalition



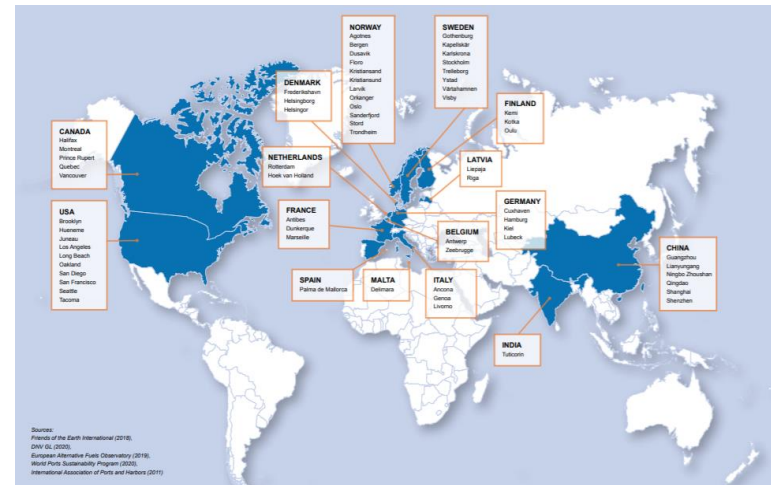
GLOBAL
MARITIME
FORUM



Decarbonisation of shipping – Resolution MEPC.323(74)

Voluntary cooperation between ports and shipping on GHG emission reduction from ships

- Onshore Power Supply
- Safe and efficient bunkering of low/zero carbon fuels
- Port incentives
- Port call optimization and JIT

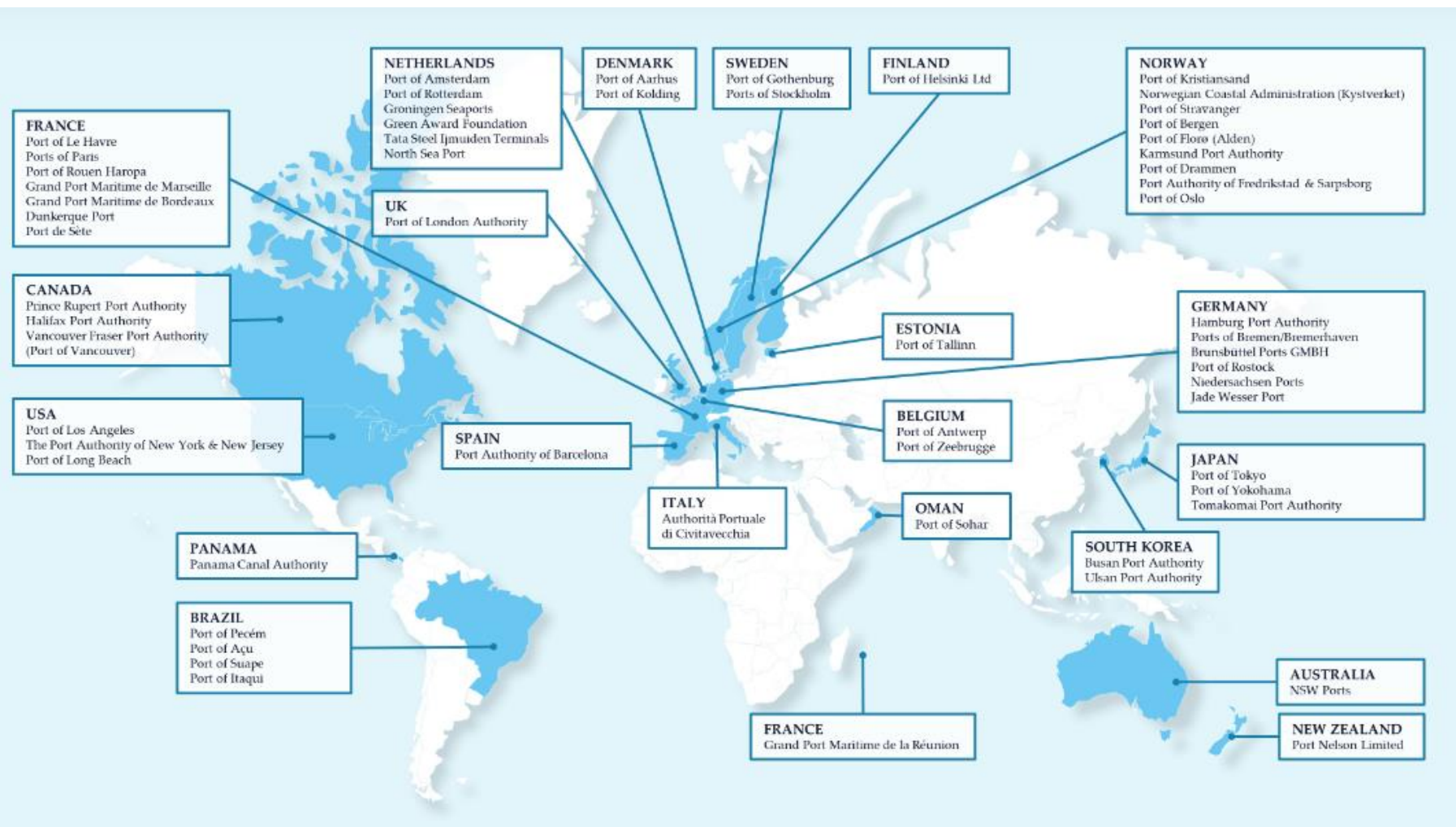


Port initiatives on decarbonising shipping

Area of work	Global port initiatives
A. Port incentives to address GHG emissions from vessels	IAPH Environmental Ship Index
	IAPH Cruise emissions at berth
	World Ports Climate Action Program - WG2
	International Collaboration on Ship Emission Reduction
B. Bunkering of low and zero carbon fuels	IAPH Clean Marine Fuels WG
	World Ports Climate Action Program - WG4
	Global Ports Hydrogen Coalition / IAPH
C. Onshore Power Supply from renewable sources	World Ports Climate Action Program - WG3
	GreenVoyage2050 / IAPH
D. Ship voyage and port call optimisation	International Taskforce on Port Call Optimization
	World Ports Climate Action Program - WG1
	IAPH Data collaboration committee / World Bank



IAPH Environmental Ship Index (ESI)



- The standard Index used by ports worldwide for the provision of incentives to best performing vessels
- 7000 vessels
- 60 Incentive providers
- ESI 2.0 + ESI at berth

<https://www.environmentalshipindex.org>

IAPH Clean Marine Fuels WG

Clean Marine Fuels

About

LNG as a fuel ▶

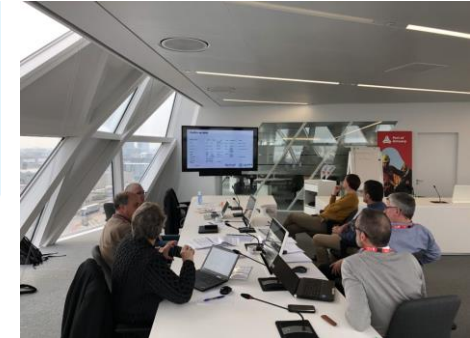
Hydrogen as a fuel

Methanol as a fuel

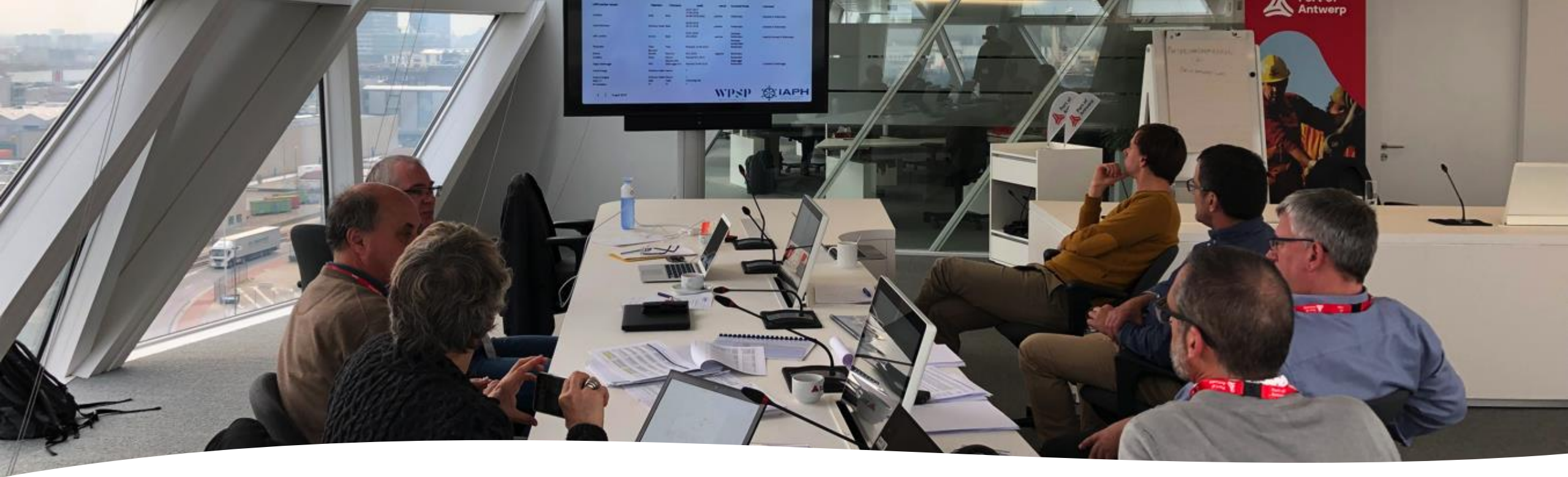
Ammonia as a fuel

Database of reports and report reviews on alternative marine fuels

Clean Marine Fuels



<https://sustainableworldports.org/clean-marine-fuels/>



Who are we?

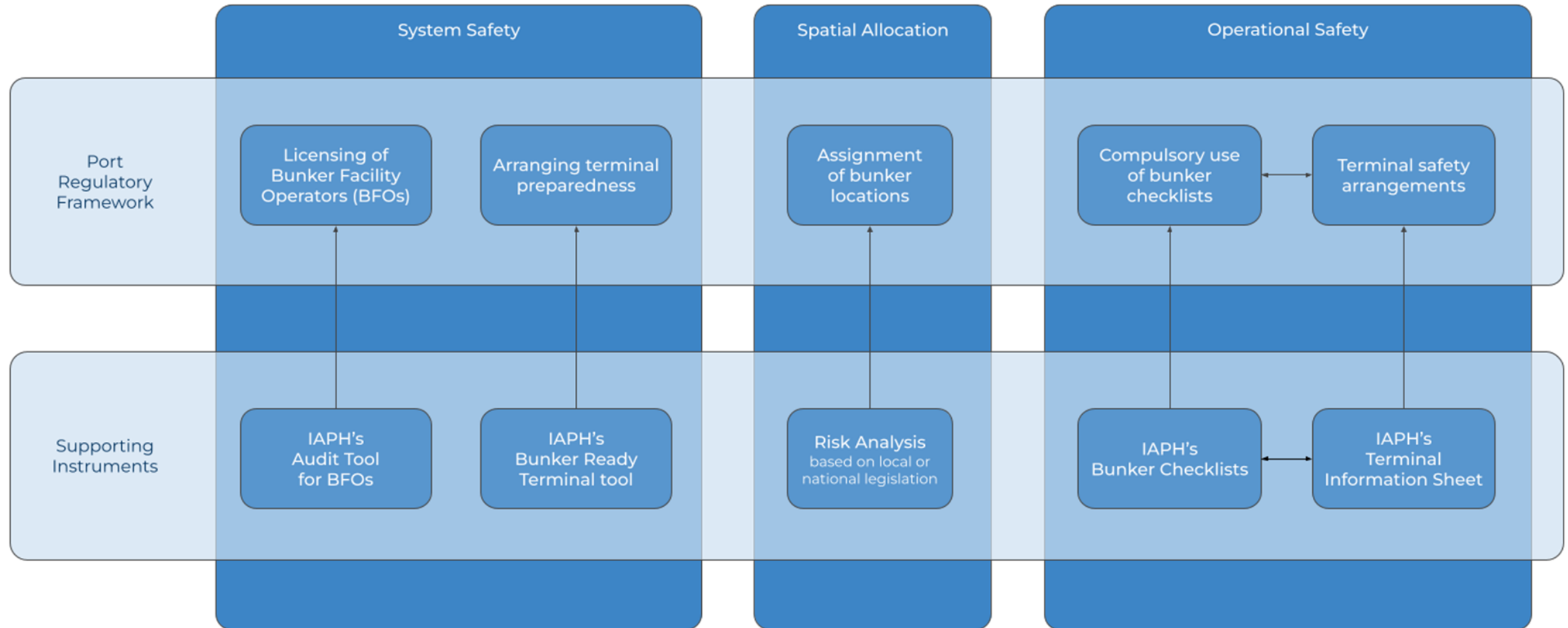
We are an IAPH network of Port Authority engineers acquiring unique insights into alternative clean marine fuels and how to apply them in practice for bunkering at ports.



What do we do?

Empowering ports to facilitate, stimulate and regulate the supply of new clean marine fuels by providing expertise and guidance on safe and efficient bunker operations

Toolkit for the safe and efficient bunkering of low carbon fuels



IAPH views on key topics on the IMO agenda

1. IAPH calls for an early implementation, by 2025, of a global MBM to bridge the price gap between conventional and low- and zero-carbon fuels and hence stimulating the very substantial investments needed in the supply and value chains of such fuels and making them commercially viable.
2. IAPH calls for setting a 2050 level of ambition of zero emissions for the international shipping sector in the revised IMO GHG Strategy
3. IAPH argues that the strategic allocation of MBM generated revenues can contribute to an equitable energy transition of shipping.

Thank you!

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