

IAPH initiatives towards sustainable port development



Masaharu Shinohara
IAPH Vice-President for Asia, South/West, East & Middle East
PortTech Asia - 10-11 April 2024

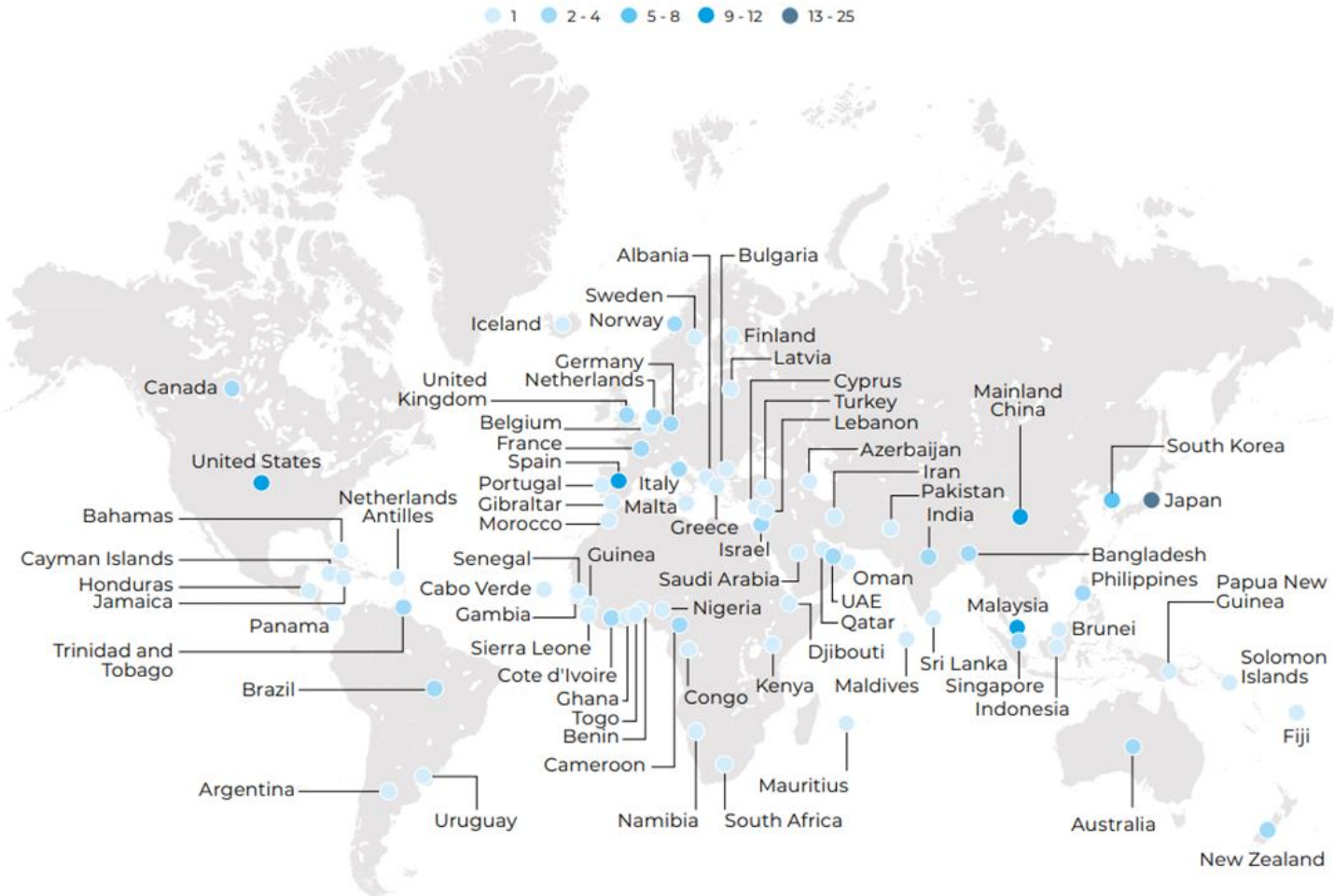
Overview

1. Introduction to IAPH
2. World Ports Sustainability Program
3. Climate and energy
4. Data collaboration
5. Risk and resilience
6. World Ports Conference



1. Introduction to IAPH

Number of IAPH regular members by country





Climate and Energy	Data Collaboration	Risk and Resilience
<ul style="list-style-type: none">- Clean marine fuels- Onshore power supply- Port incentives- Underwater noise- Green Shipping Corridors- Clean Energy Marine Hubs	<ul style="list-style-type: none">- Maritime Single Window- Port Community Systems- Cybersecurity- Port Call Optimisation- Port-customs collaboration- Supply chain data	<ul style="list-style-type: none">- Structural resilience- Port governance- Trend watching- Illicit trafficking- Anti-corruption



UNITED NATIONS
UNCTAD



WORLD CUSTOMS ORGANIZATION



THE WORLD BANK



International
Labour
Organization

UN 
environment
programme



ECOSOC
United Nations

iaph 

2. World Ports Sustainability Program



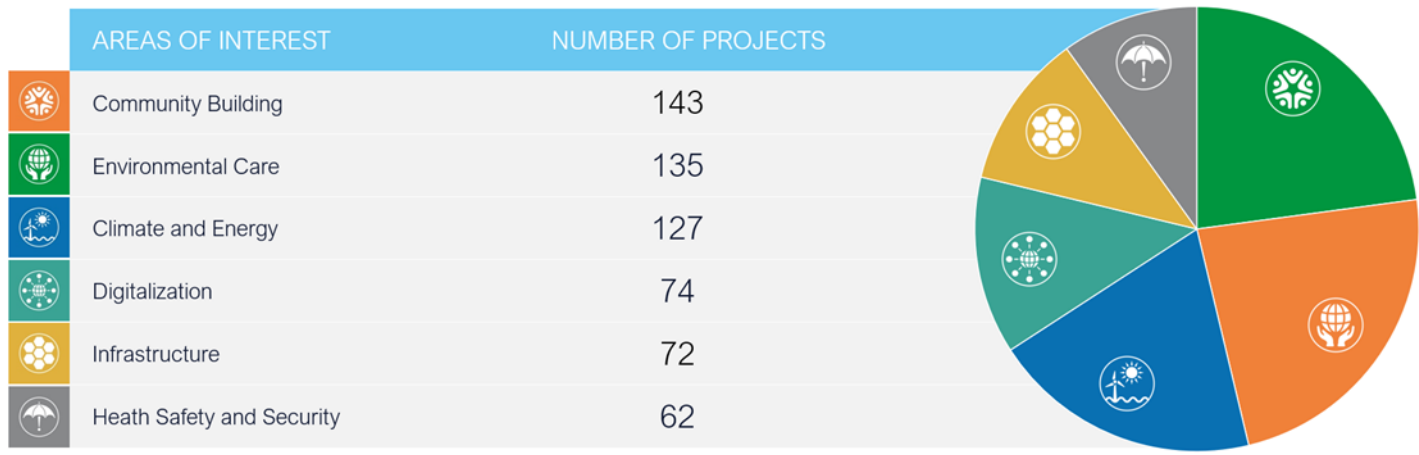
www.sustainableworldports.org



327
PROJECTS

132
PORTS

58
COUNTRIES



WPSIP
WORLD PORTS SUSTAINABILITY PROGRAM



#IAPH2023
SUSTAINABILITY AWARDS
WINNERS



INFRASTRUCTURE



Busan Port Authority

Recycling of aggregates for construction

DIGITALIZATION



Halifax Port Authority

Data Enhancement
Framework 2 (DEF2)

CLIMATE AND ENERGY



Port Authority of Santa Cruz de
Tenerife

Tenerife Port ZERO

COMMUNITY BUILDING



Puerto Dock Sud

Gender Equality;
"Train for Work" program

ENVIRONMENTAL CARE



Yeosu Gwangyang Port Authority

Marine Plastic Collection and
Utilization Network

HEALTH SAFETY & SECURITY



Yeosu Gwangyang Port Authority

Keeping port workers healthy



Deadline to submit projects for #IAPH2024 Sustainability Awards competition: **24 May 2024**

www.sustainableworldports.org/submit-your-project





PORT ENDEAVOR

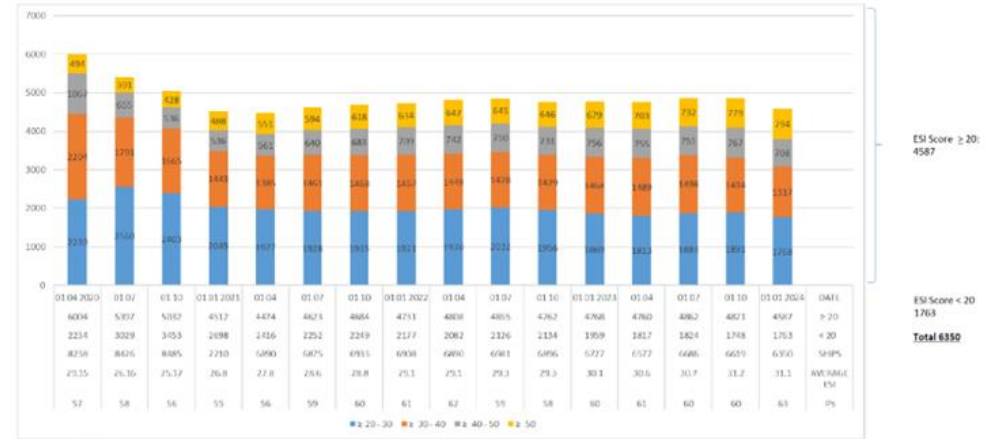


3. Climate and energy



www.environmentalshipindex.org

ESI Scores: 1 January 2024



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



www.sustainableworldports.org/clean-marine-fuels/



PRL-MF 9	Deployment	Market penetration and growth for bunkering of target fuel
PRL-MF 8		Full capabilities for bunkering of target fuel
PRL-MF 7		Bunkering of target fuel established on a project basis
PRL-MF 6	Development	Pilot-scale demonstration of bunkering of target fuel
PRL-MF 5		Framework for bunkering of target fuel implemented and tested
PRL-MF 4		Framework for bunkering of target fuel drafted, timeline developed
PRL-MF 3	Research	Detailed research, analysis, and conclusions
PRL-MF 2		Stakeholder interest and feasibility assessment
PRL-MF 1		Foundational background information



CLEAN ENERGY MARINE HUBS

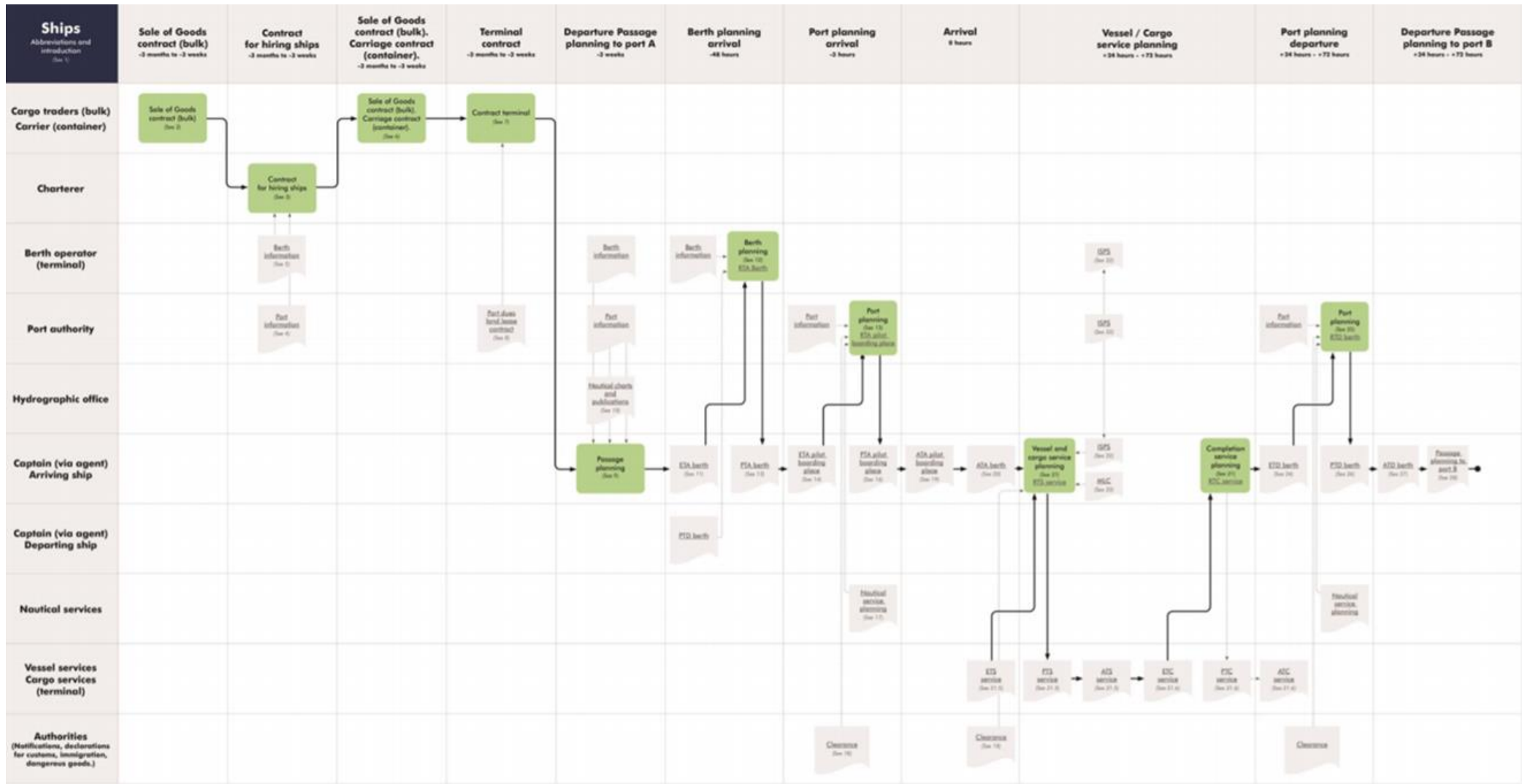
AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL

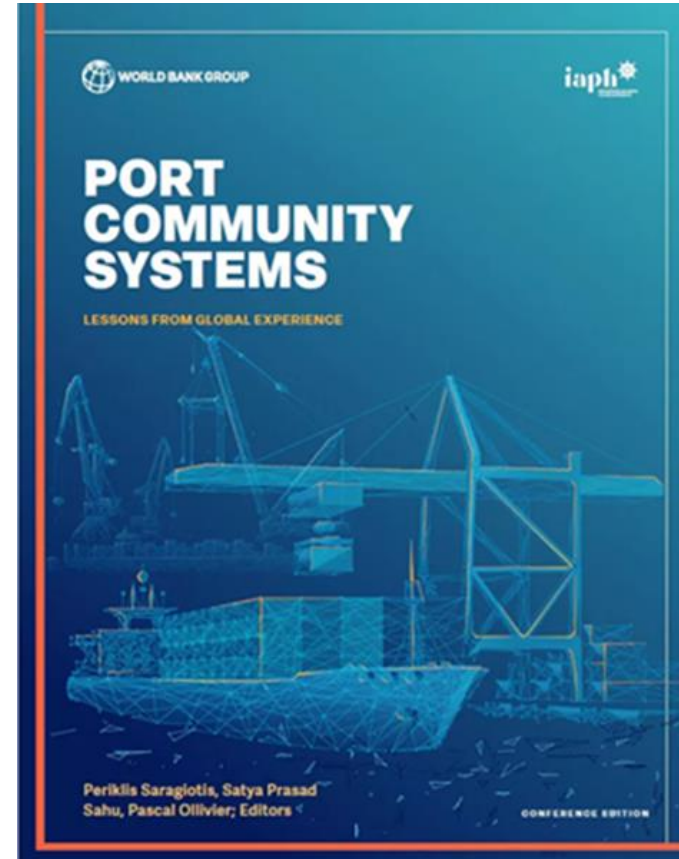
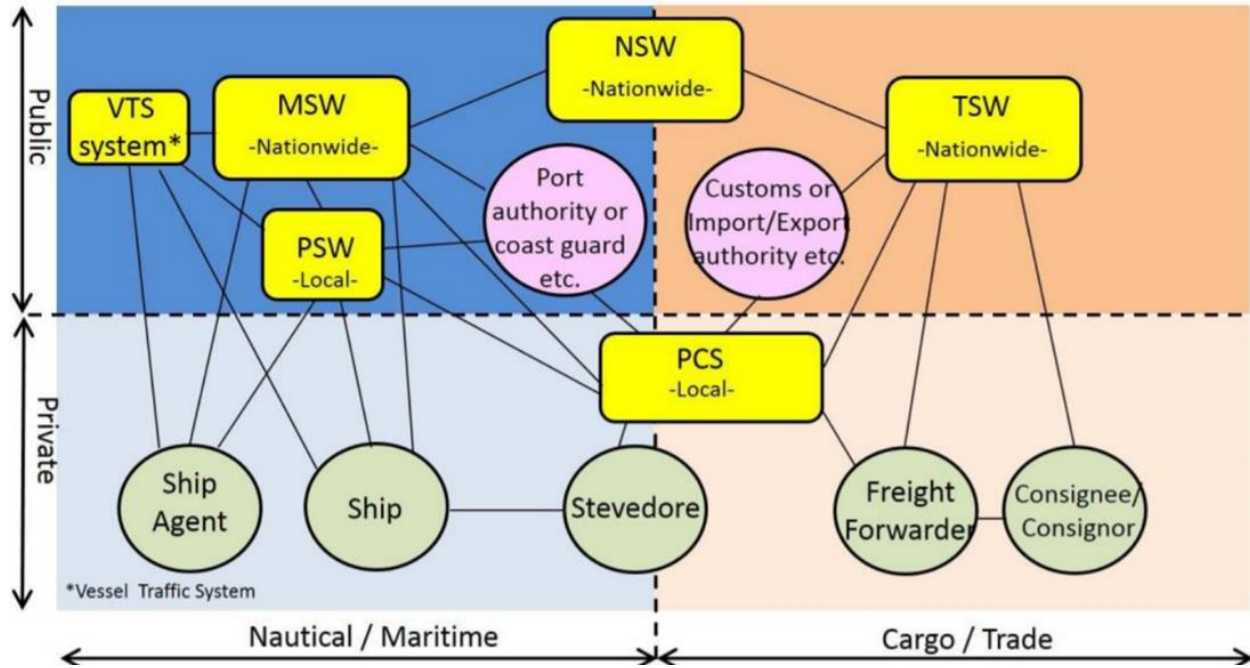


4. Data collaboration



Maritime Trade Logistics Digitalization Road Map	2021	2022	2023	2024	2025
Health	Digital Health Security				
Ship to Shore	FAL Convention				
Security	Cybersecurity				
Ship to Shore	Port Call Optimization				
	Maritime Single Window				
Port Community	Port Community System				
Port Authority	Port Management System				
Disruption	Smartport				







**IAPH Cybersecurity Guidelines
for Ports and Port Facilities**
Version 1.0

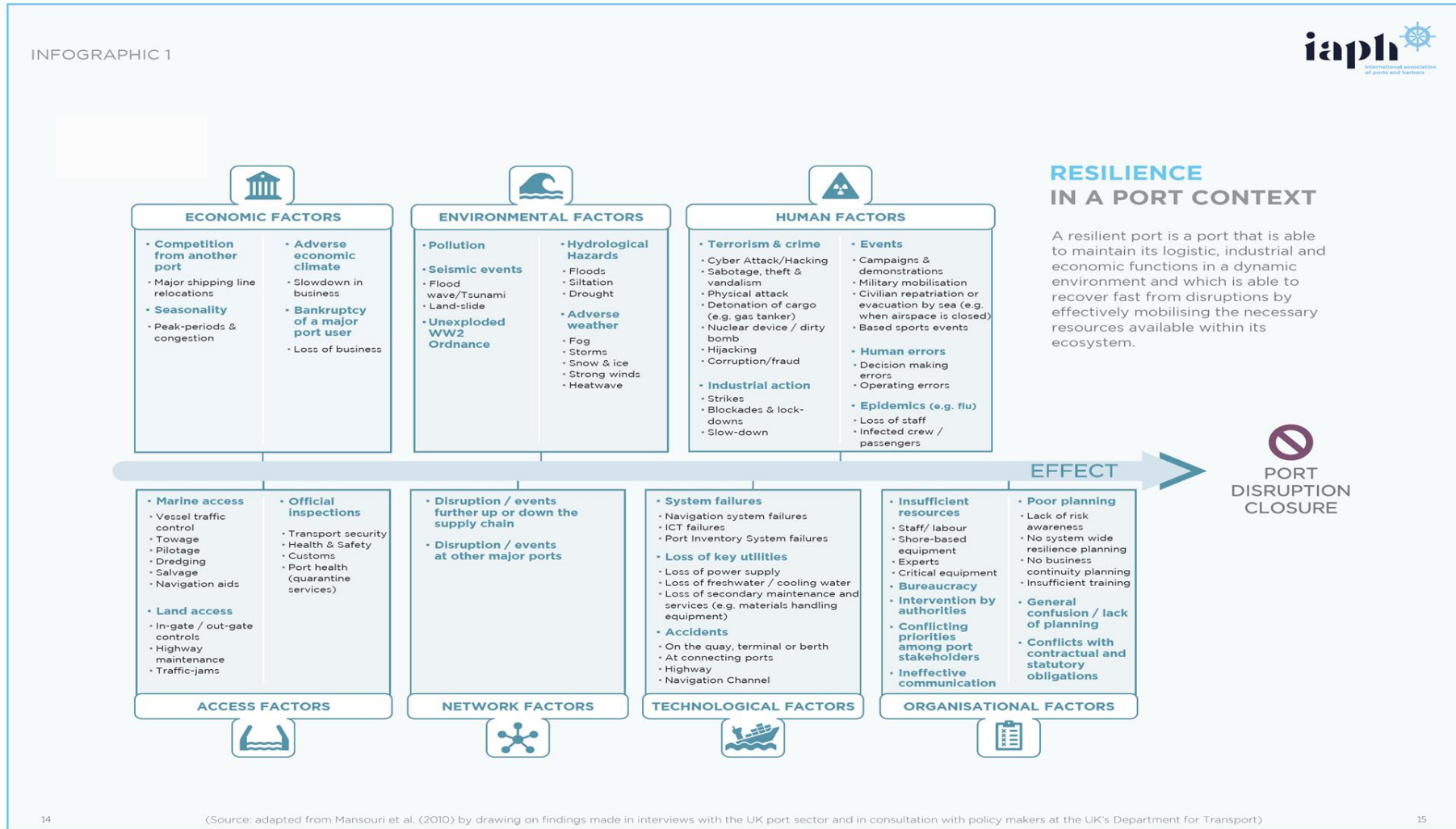


**Guidelines on
Cooperation between
Customs and
Port Authorities**

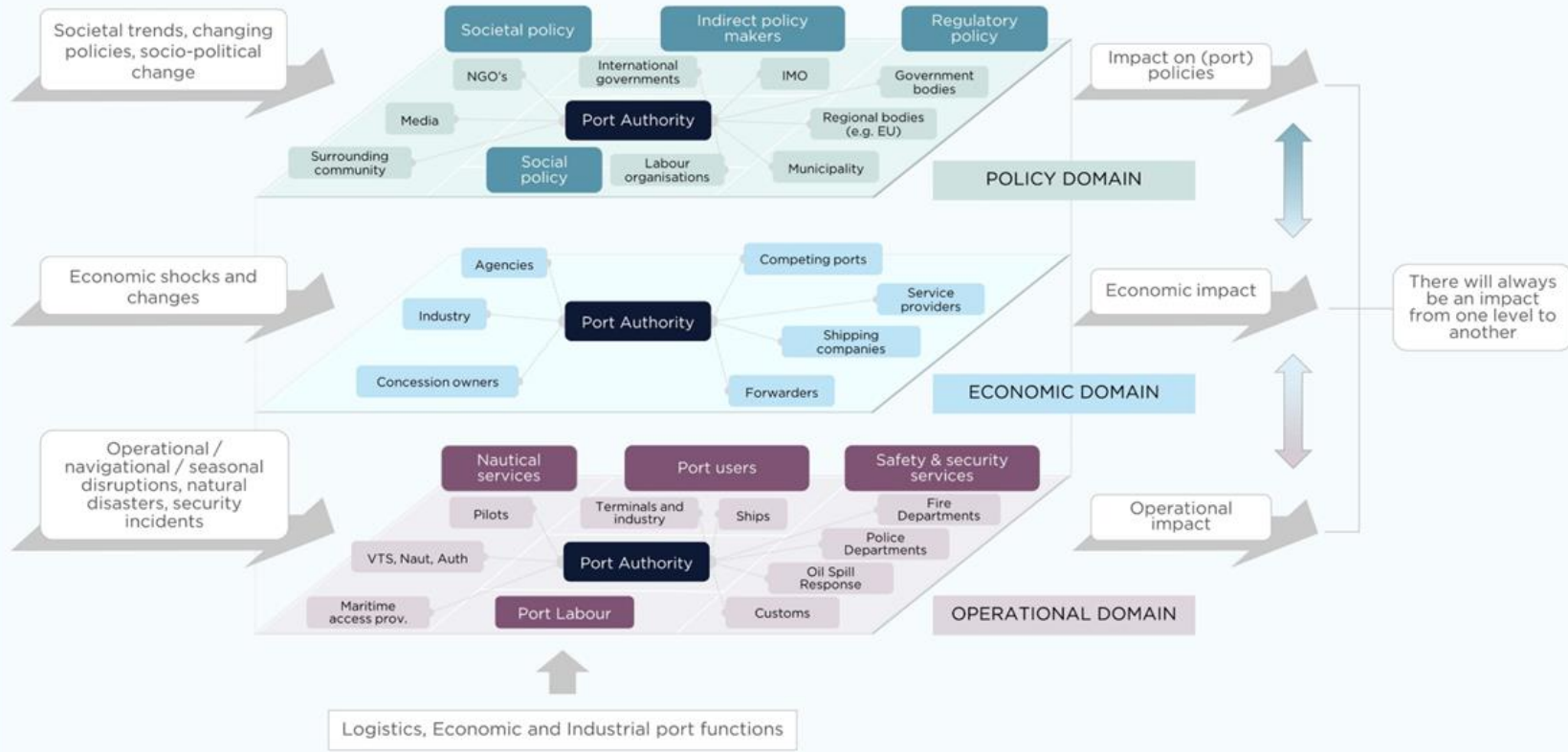
wco.wco.org | iaphworldports.org



5. Risk and resilience

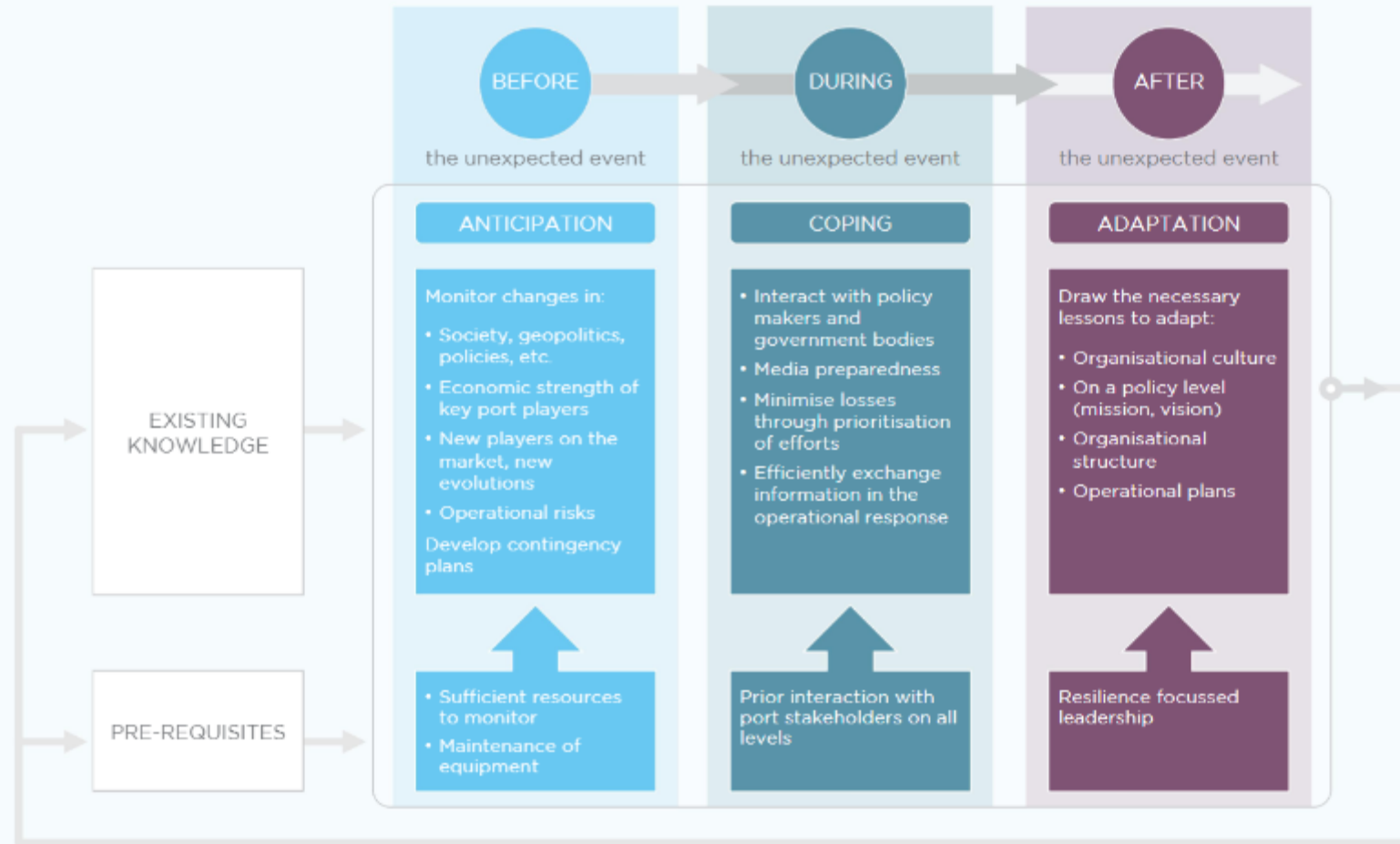


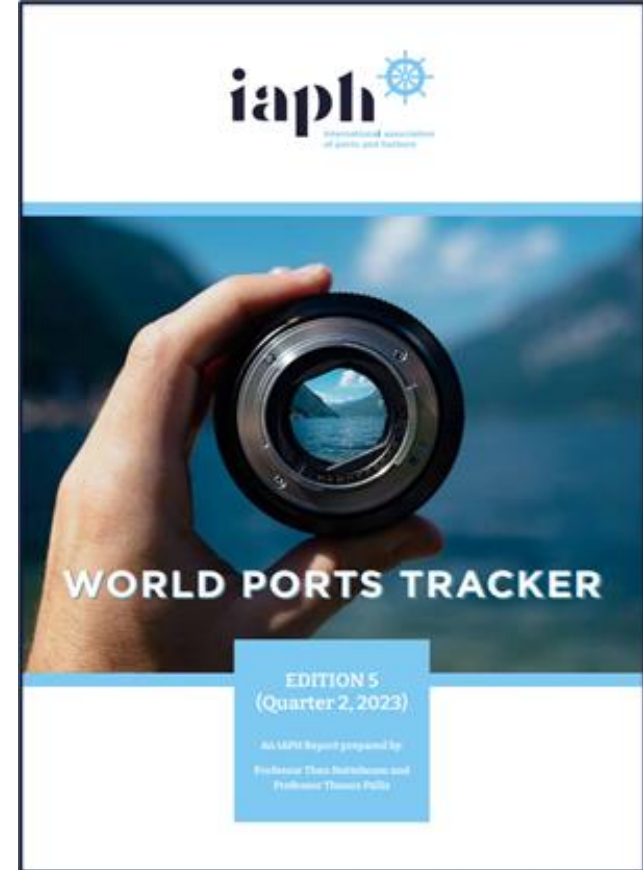
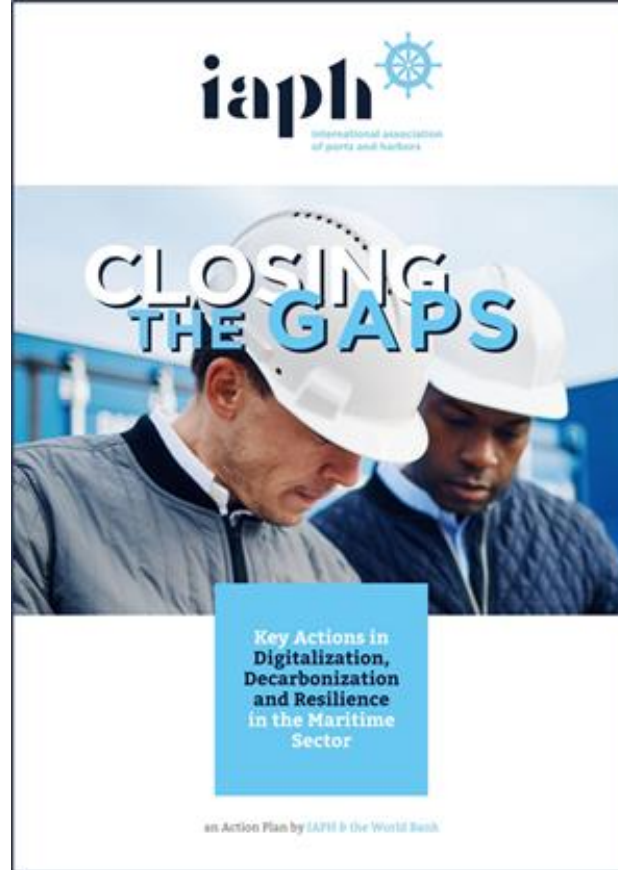
DEVELOPMENT OF AN ORGANISATIONAL RESILIENCE MODEL FOR PORTS



(Source: N. Vanlaer et al 2021 adapted from Padgett & Powell, 2012)

ORGANISATIONAL RESILIENCE MODEL FOR PORT AUTHORITIES





6. World Ports Conference



WORLD PORTS CONFERENCE 2024

REGISTRATION NOW OPEN

8-10 October 2024 | Hamburg, Germany

A world-class in person event in Hamburg bringing together leading port stakeholders for learning, information sharing, networking and collaboration

iaph | Host sponsor: **HPA** Hamburg Port Authority | **mercatormedia** magazines/events/online



www.worldportsconference.com

Thank you!

