

# IAPH work programme: Twelve priority topics for 2022-2023



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# Overview

1. Follow-up #ClosetheGaps
2. Just and equitable energy transition
3. Green Shipping Corridors
4. Low and zero carbon fuel bunkering
5. Environmental Ship Index 2.0
6. Onshore power supply
7. Maritime Single Window
8. Digital port infrastructure roadmap
9. Customs-ports guidelines
10. Innovation agenda
11. Port business continuity guidelines
12. World Ports Tracker



# 1. Follow-up #CloseTheGaps

- Continued partnership with The World Bank
- Consolidation of regional workshop findings in one joint report
- Focus on three generational challenges that affect all ports:
  - Decarbonisation
  - Digitalisation
  - Resilience
- Alignment with agendas of IAPH Technical Committees
- World Bank funding for ports in client countries
- New edition of Port Reform Toolkit
- IAPH World Ports Conference platform for progress



**WORLD BANK GROUP**



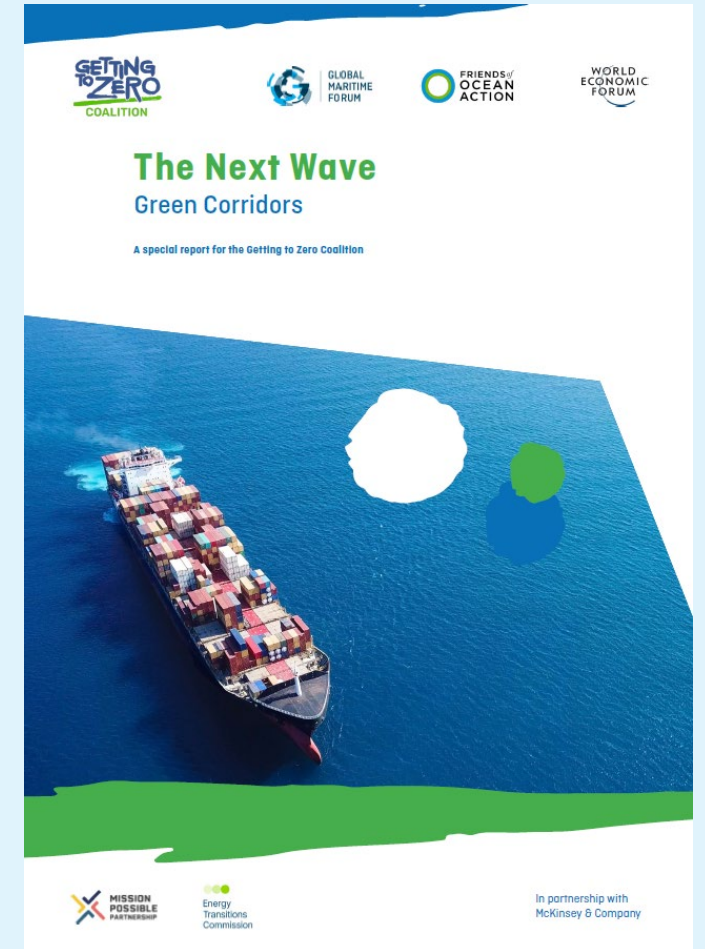
## 2. Just and equitable energy transition

- Energy transition (of shipping) should provide opportunities for all ports
- Divide in IMO over market-based measures and revenue allocation
- Funding for port infrastructure in developing countries could help unlocking
- Pro-active outreach of IAPH to Member States and shipping organisations ahead of IMO MEPC 79 (December 2022)
- Collaboration with IMO, World Bank, UNCTAD and others
- Capacity building through IMO-Norway GreenVoyage2050 partnership



### 3. Green Shipping Corridors

- Concept introduced by Getting to Zero (GtZ) Coalition at COP 26 – Clydebank Declaration
- Monitoring of the early movers (Trans-Atlantic, Trans-Pacific, Australia-East Asia, Intra-Europe, Cruise ...)
- Engagement with GtZ and other promoters (Aspen Institute, LR Decarbonisation Hub, Maersk McKinney Institute) on the further development of the concept and engagement of ports
- Is there a role for the IMO?
- Momentum at COP 27 – Sharm El-Sheikh (Egypt) – 7-18 November 2022



# 4. Low- and zero-carbon fuel bunkering

## Roadmap of the IAPH Clean Marine Fuels (CMF) products

|                    | Instrument   | Energy carrier                | Status                                 |
|--------------------|--|-------------------------------|--|
| System safety      | Conversion of LNG BFO Audit tool to a generic/all fuels BFO audit tool for existing and new fuels and multi mobility | All                           | Started v0.42                          |
|                    | Conversion of LNG Ready Terminal tool to a generic Bunkering Ready Terminal tool for existing and new fuels          | All                           | Start May 2022                         |
| Operational safety | Ship to Ship Liquefied Gasses checklists   | LNG, LH2                      | Final                                  |
|                    | (Multiple) Truck to Ship Liquefied Gasses checklists   | LNG, LH2                      | Final drafts                           |
|                    | Ship to Ship Flammable and/or toxic liquid checklist   | Methanol & others             | Started                                |
|                    | (Multiple) Truck to Ship Flammable and/or toxic liquid checklist   | Methanol & others             | Started                                |
|                    | Ship to Ship Ammonia checklist (toxic gasses)  | Ammonia                       | Started                                |
|                    | Multiple Truck to Ship Ammonia (toxic gasses) checklist  | Ammonia                       | Required?                              |
|                    | Short to Ship containerised energy carriers  | Battery packs, hydrogen racks | Start Q4 2022                          |
| Port empowerment   | Port Guidance Tool (Fuel Ready Port)   | All                           | Phase one completed, phase two started |
|                    | Green Fuel Corridors   | All                           | To be investigated                     |

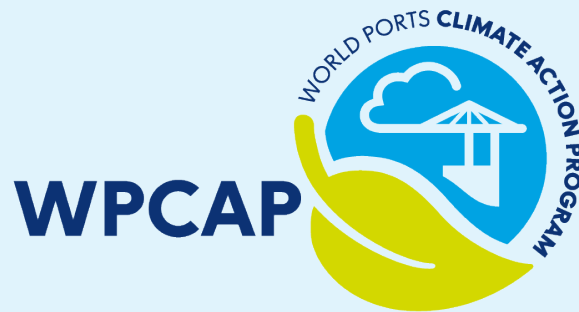
# 5. Environmental Ship Index 2.0

- ESI 2.0 '**global**' module will continue with relative approach (what is onboard the ship during the reporting period), new formulas for air quality (AQ), greenhouse gases (GHG) and innovation (Innov)
- ESI 2.0 '**at berth**' module will bring in both relative and actual data on a per-call basis, for participating ports and terminals (starting with cruise)
- ESI 2.0 '**noise**' module will remain its own module, expanding to underwater noise is an option
- ESI 2.0 is planned to be fully operational by Q3/Q4 2024, when the new IMO Carbon Intensity Indicator (CII) scores are expected to be available



## 6. Onshore power supply

- Increased pressure on ports to invest in onshore power supply because of local, national and regional regulation
- Discussion moved from technology and standards to investment and economic feasibility, considering broader energy supply issues
- Longer-term need for OPS, given emerging low- and zero-carbon fuels?
- Lack of coordination between ports, shipping lines and OPS providers.
- WPCAP policy paper on OPS
- OPS training package under IMO-Norway GreenVoyage2050
- IAPH Cruise Committee to discuss acceleration of OPS for cruise shipping





# 7. Maritime Single Window

- IMO FAL 46 (9-13 May 2022) has adopted amendments to FAL Convention which will make Maritime Single Window mandatory in 2024
- Based on a joint submission of IAPH, BIMCO and IMHA, IMO FAL 46 also adopted amendments to the IMO Maritime Single Window guidelines, to include the port call process and the exchange of nautical and operational data which may be exchanged through the Maritime Single Window
- Further IMO guidelines are under development, (1) on authentication, integrity and confidentiality of information exchanges via Maritime Single Windows and related services, and on (2) harmonised communication and electronic exchange of operational data for port calls
- IAPH to work with IMO and others on capacity building to facilitate introduction of the MSW concept and related port call optimisation processes, based on harmonised standards



## 8. Digital port infrastructure strategic roadmap

- Cooperation ChainPort and IAPH based on IAPH/World Bank roadmap to accelerate digitalisation and ChainPort Port Reference Model
- Production of a 'Digital Port Infrastructure' strategic roadmap, based on perspectives and data needs of cargo owners
- Working group with ports of Barcelona, Hamburg, Los Angeles & Rotterdam
- Identification of principal problem: the inability of cargo owners to guide their own supply chain decisions
- Next steps:
  - validation of the barriers for a smooth supply chain;
  - validation of the key data elements which will enable smooth planning through port areas;
  - dialogue on adoption of standards.



## 9. Customs-ports guidelines

- Development of guidelines progresses through joint WCO-IAPH working group, meetings are held on a monthly basis
- Main topics:
  - Strengthening cooperation between customs and port authorities
  - Acceleration of digitalisation
  - Enhancing supply chain security and resilience
  - Supporting sustainable development
- Timeline: final draft by January 2023 / formal adoption by May 2023
- IAPH members are strongly encouraged to join working group meetings alongside WCO experts to share their best practices



WORLD CUSTOMS ORGANIZATION  
ORGANISATION MONDIALE DES DOUANES

# 10. Innovation agenda

- Innovation Group operating under Data Collaboration Committee
- Start-ups showroom using Harbor Café platform:
  - Based on WPSP themes
  - Ports introducing promising start-ups
  - Annual schedule starting July 2022
- Innovation white papers:
  - Generic paper(s) on innovation mindset, Hackatons/pilots, innovation hubs (September 2022)
  - Thematic papers based on the WPSP themes
- Feasibility assessment of a fund for start-ups
- Innovation in ports survey (part of World Ports Tracker pillar 2)





# 11. Port business continuity guidelines

- Guidelines for business continuity policy and risk preparedness
- Dedicated working group under Risk and Resilience Committee started preparations in March, deliverable expected by end of 2022.
- Main elements:
  - Generic part targeting the management components that need to be in place to address business continuity and risk preparedness.
  - Practical, case study-focused part that highlights how ports responded to real challenges and what were the lessons learned.
  - Elaboration of the draft self-assessment tool that was previously developed by PM R&D on behalf of the Committee
- Members are encouraged to join the working group.

## 12. World Ports Tracker

- Building on the experience of the COVID-19 Port Economic Barometer
- Pillar one – economic performance:
  - Quarterly container port performance data S&P Global
  - Quarterly survey-based data for other market segments
  - Survey launched at #IAPH2022 Vancouver
  - Summaries published in Ports & Harbors magazine (see May-June issue)
  - Ports replying to survey get full analysis (teaser provided at #IAPH2022)
- Pillar two – broader range of sustainability indicators:
  - Data collaboration
  - Climate and energy
  - Risk and resilience
  - Innovation
  - Annual survey, plan to launch end of 2022







Thank you!

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