

Key challenges for sustainable development of ports



UNCTAD Multi-Year Expert Meeting on Transport

12 July 2022

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Overview

1. Risk and resilience
2. Data collaboration
3. Energy transition
4. Sustainable development
5. Conclusions and reflections





Increasing resilience potential



Monitor

- Understanding what is going on around us
- The situational awareness
- Short term

Anticipate

- Understanding what is going to come
- Imagining the possibilities
- Long term

Learn

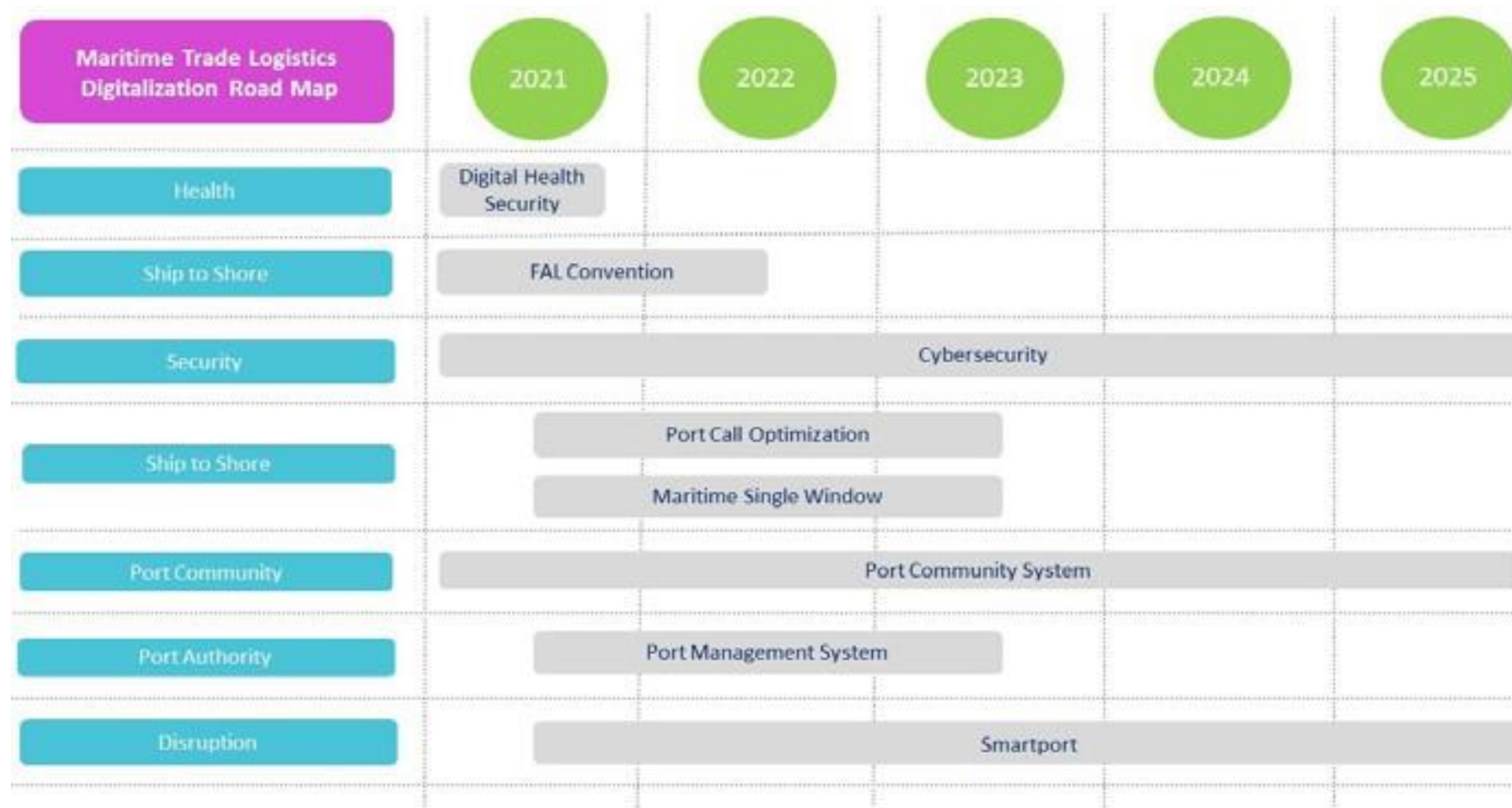
- Learning from inside and outside
- First order learning
- Second order learning

Respond

- Relevant and effective
- Timely but only when necessary
- Competencies and resources

Source: Vanlaer 2021





Source: World Bank / IAPH 2021



Ports as decarbonisation hubs



Source: DNV-GL and Eurelectric (2020)



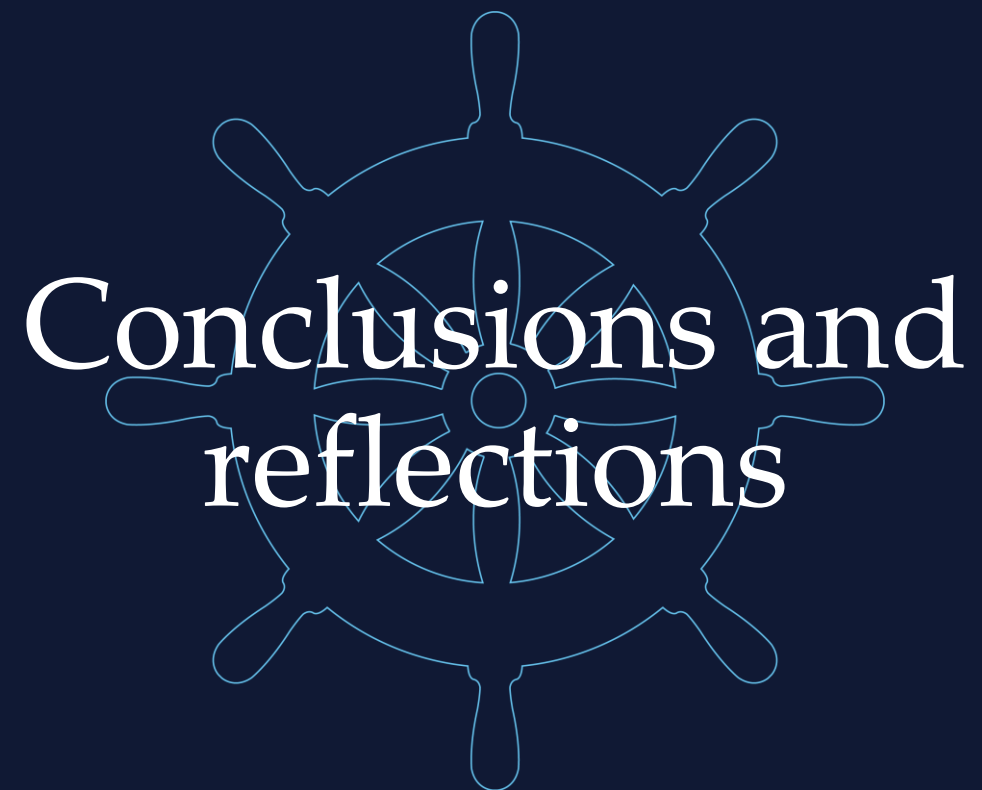
Demonstrating global leadership of ports in contributing to Sustainable Development

Ports must respond to worldwide, regional and local challenges, such as climate change, mobility, digitalisation, migration and social integration.



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- Disruption is becoming 'business as usual'. Resilience management and business continuity planning are a must for critical infrastructures such as ports.
- Digitalisation of the maritime sector is lagging behind, lack of trust between stakeholders in data sharing is the prime barrier to overcome.
- Decarbonisation ambitions are increasing, leading to regional disparities amidst uncertainty about fuel choice and funding.
- Energy transition offers multiple opportunities for ports, certainly for those that are in energy trade.
- An integrated approach to sustainability is emerging in the port sector , but it is still far from standard practice.

- Will globalisation make (some) way for regionalisation? How will this affect supply chains?
- Is the economies-of-scale business model of global shipping and logistics still valid?
- Has the landlord port governance model reached its expiration date? Should port authorities become more entrepreneurial?
- Has the single-port governance model reached its limits? Will we see more far-reaching forms of cooperation?
- Are port labour arrangements adapted to the digital and automated era?
- Is there a need for global regulation of the port sector?

Thank you!

