

Sustainable development of port industry

Ningbo, 11th July 2019



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The International Association of Ports & Harbors
www.iaphworldports.org





Major sustainability challenges for ports



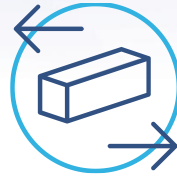
Energy transition

Global low-sulphur environment

Need close collaboration ship & shore

Introduction of new fuel types and/or new ways of propulsion

Affordable and clean energy



Data Exchange

Creating trust among ports customers and stake holders

Implementation of digital tools

Data partnerships



Ethics, governance and security

Build and maintain reputation and trust

Combat corruption

Cybersecurity



Energy efficiency

Revision of efficiency design standards

Introduction of speed optimization measures

Optimization of port calls



Port's mission

Creating value for a port's surrounding economy in a **sustainable way** should be at the centre of any development

The mission of a port is to help the surrounding economy, industry, consumption and distribution to become **more competitive and sustainable**

As these targets are achieved, there will be **more cargo to handle**



Economic, social and environmental sustainability at the port of Barcelona

Guaranteeing **sustainable growth** from the **economic, social and environmental** point of view is a priority for the Port of Barcelona

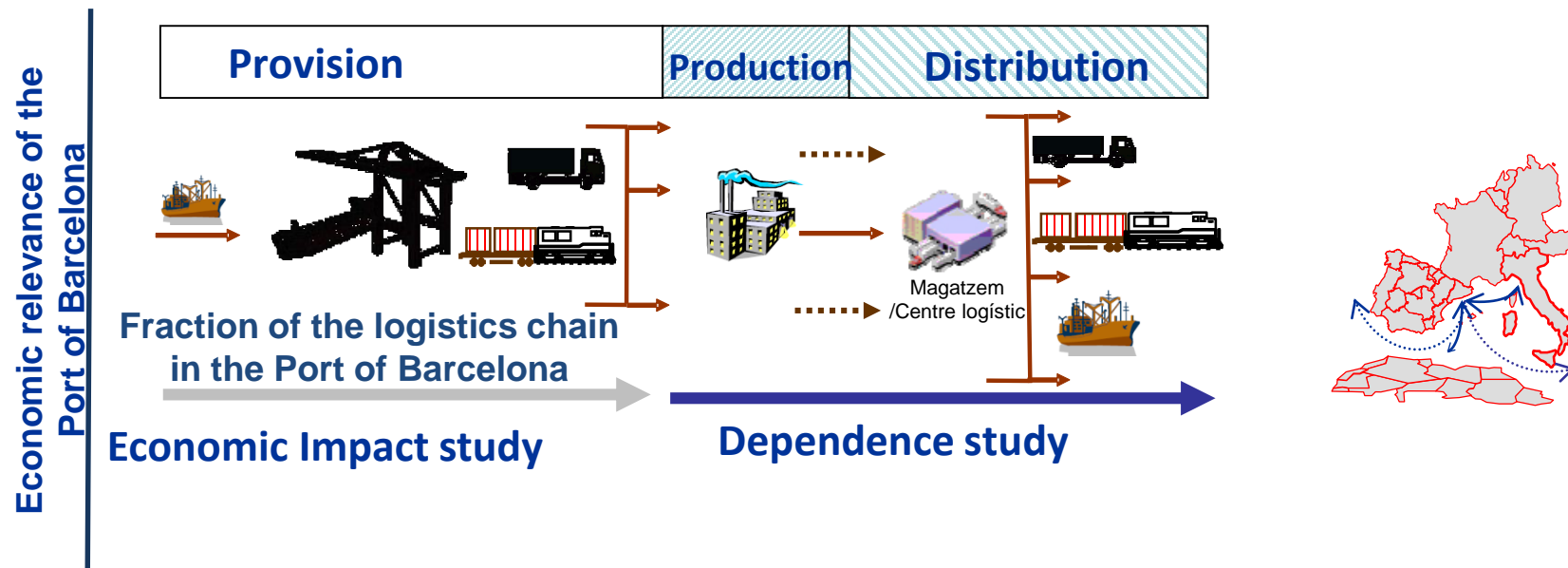


Key role of **innovation** and **digitalization**



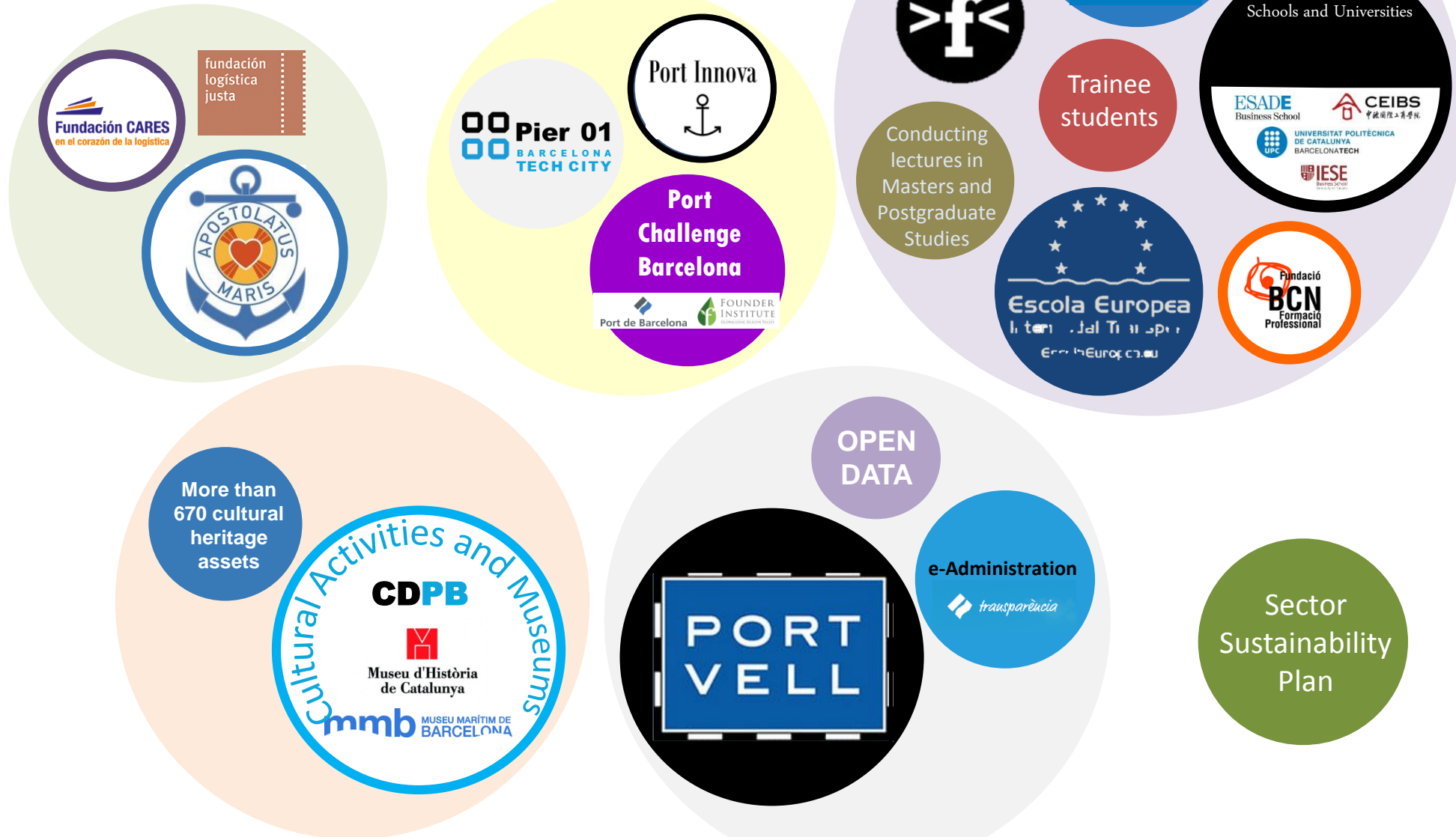
Contribution of the Port of Barcelona to the competitiveness Definition of Economic Impact & Dependence studies

- Benefit generated by the Port as a services infrastructure :
Economic Impact study
- Benefit provided by the Port to the local industry: Dependence study



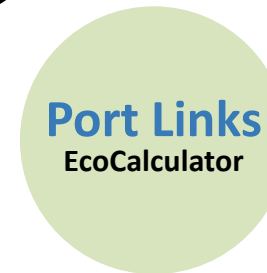
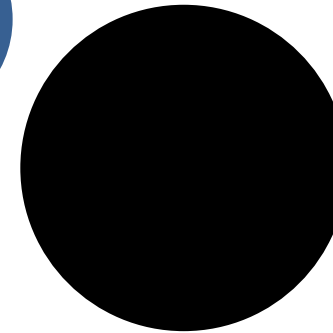
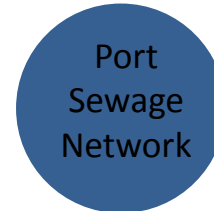
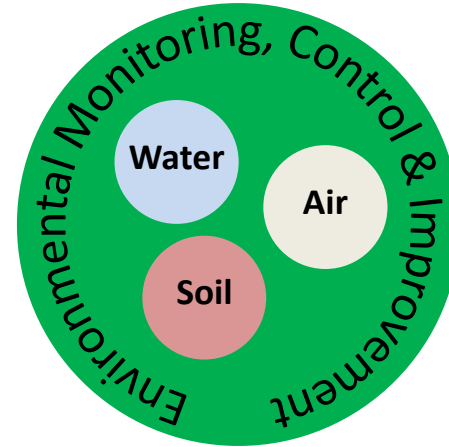


Social Sustainability





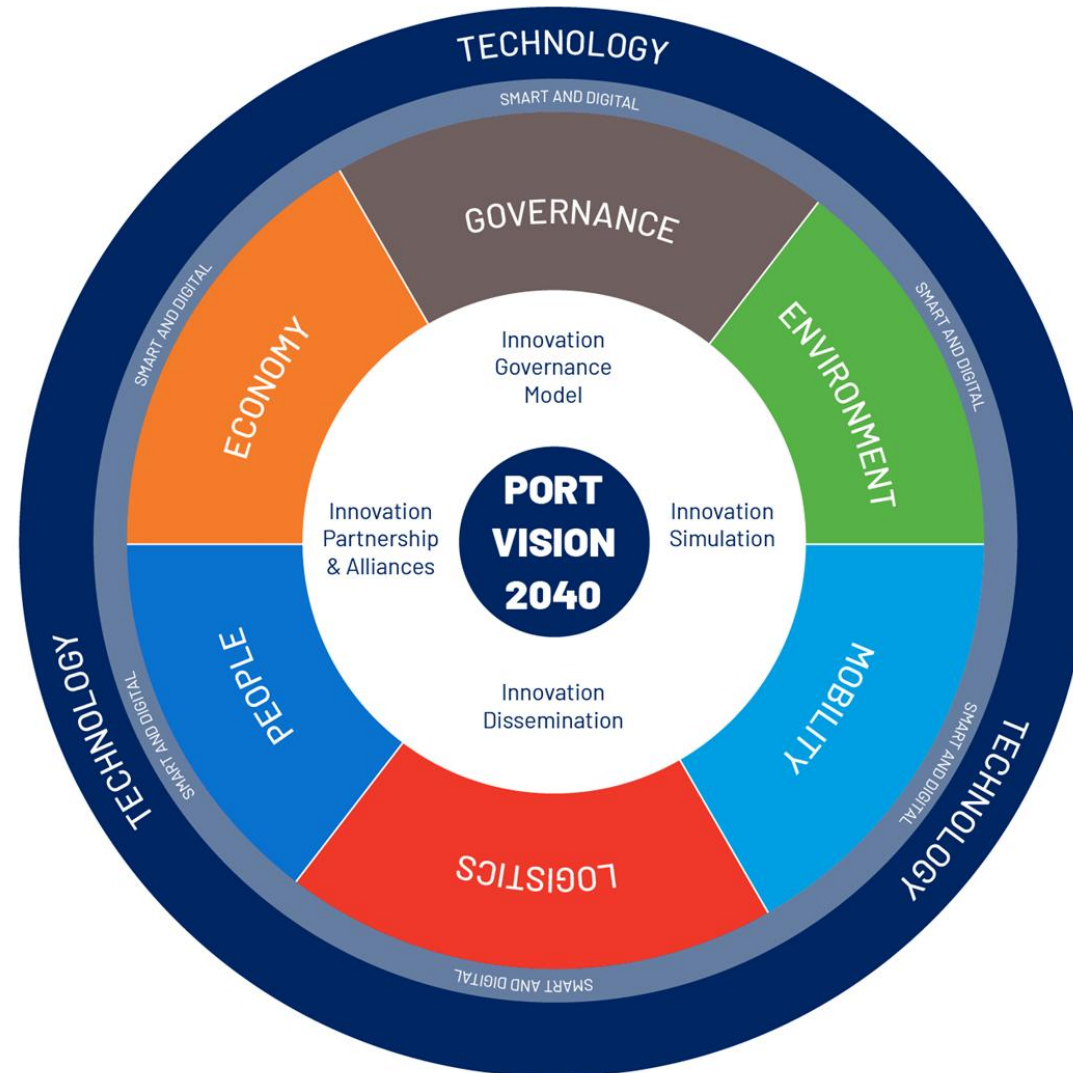
Environmental Sustainability





PORT INNOVATION

Port de Barcelona's innovation steering wheel





SMART Our SmartPort model

- Real-time information
- Traceability
- Automation and robotisation
- Physical and technological integration infrastructure
- Efficiency and predictability
- Seamless freight transport
- Smart maintenance
- Non-intrusive inspection



LOGISTICS



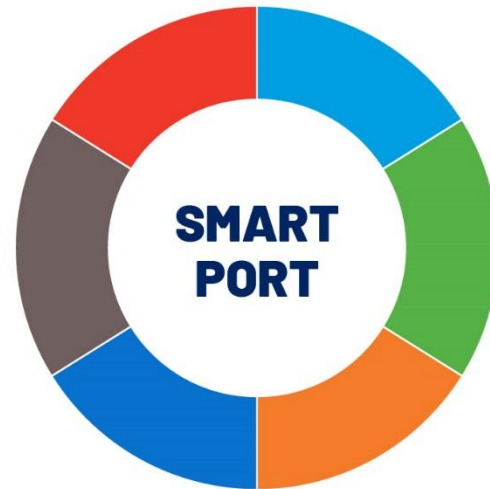
MOBILITY

- Connected vehicle
- Sustainable transport
- Autonomous transport
- Intermodality and syncromodality
- Smart traffic management
- Mobility management
- Connected infrastructure roads and rails
- Advanced parking

- Transparency
- e-Administration
- Security
- Cybersecurity
- Business models
- Digital platform
- Enabling tech
- Strategy and management



GOVERNANCE



SMART
PORT



ENVIRONMENT

- Circular economy
- Pollution reduction
- Waste management
- Energy efficiency
- Energy production
- Water management
- Alternative fuels
- Biodiversity

- Port city
- Passengers
- Port heritage
- Diversity
- Social cohesion
- Nautical cluster
- Training and knowledge



PEOPLE



ECONOMY

- Economic impact
- Competitiveness
- Employment
- Routes and connections
- Open innovation
- Cost reduction
- Financing



ABOUT IAPH

- Founded in 1955
- Today:
 - 170 ports
 - 140 associated members
 - 90 countries
- Role:
 - Leadership through collaboration
 - Raising global standards through exchange of know-how
 - Interest representation (IMO, ILO, UNCTAD, UNEP, ECOSOC, WCO)
- Change process:
 - New constitution and structure since 2017
 - Content driven by World Ports Sustainability Program





Result IAPH-WPSP workshop Geneva 19-20 March 2019

IAPH's World Ports sustainability Program (WPSP)



OBJECTIVES AND PARTNERS

Intends to help ports develop to integrate sustainability in their business and governance

- Global library of best practices
- Portal for projects and initiatives of partner organisations
- Think-tank and breeding ground for new collaborative projects
- Reporting about sustainability performance of the global ports sector

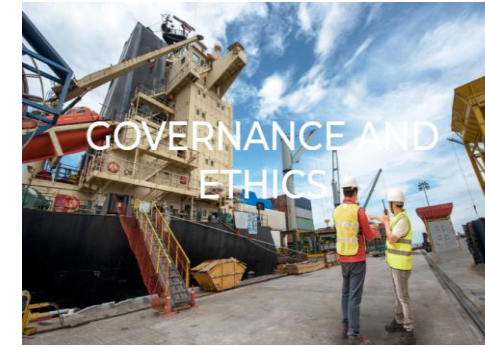


Sustainable Development Goals (SDGs) and Port Governance

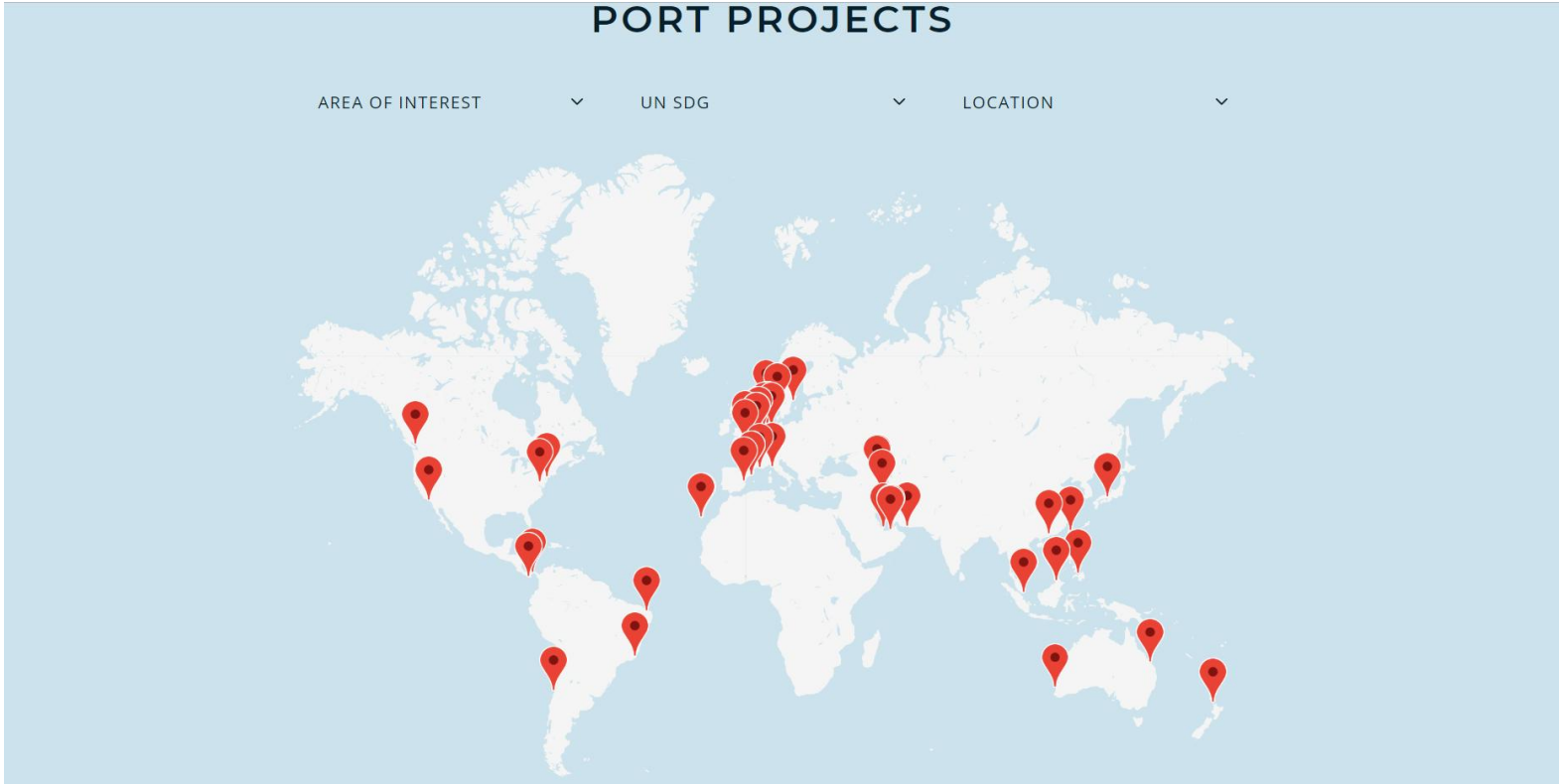
- Are all SDGs relevant for ports? How to prioritise?
- What tools, methodologies, guidance are needed?
- How to track and demonstrate port and sector performance on SDGs?



WPSP areas of interest and SDGs



PROJECT PORTFOLIO



www.sustainableworldports.org

WORLD PORTS SUSTAINABILITY AWARDS



First edition: Guangzhou, China, 9 May 2019

PLATFORM FOR COLLABORATION





Thank you

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