



**Arab Academy**  
for Science Technology & Maritime Transport

The International Maritime  
Transport and Logistics Conference  
**“Marlog 11”**

# Mediterranean Ports Blue Economy



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General Secretary, MEDPorts Association



Towards a  
SUSTAINABLE **BLUE**  
**ECONOMY**

20 - 22 March, 2022  
Hilton Green Plaza Hotel

# THE MEDPorts Association

A platform to boost cooperation between Mediterranean Ports



Towards a  
SUSTAINABLE **BLUE**  
**ECONOMY**



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# THE MEDPorts Association



## Enhancing ports cooperation in Med

### 6 MAIN GOALS

- ACHIEVE** A well balanced association between the northern and southern borders of med
- EXAMINE** issues related to port activities and maritime sector
- INFORM** its Members and seek common positions
- PROMOTE** MED interests on the international scene
- FACILITATE** The creation of maritime trade links in MED area
- IMPROVE** The world visibility of the MEDports

### 4 BENEFITS

- World wide Med promotion
- Meeting & networking sessions organisation
- Dialogue with decisions makers
- Knowledge & best practices sharing

EST.  
SINCE  
2018

**23** PORT AUTHORITIES  
70% of the total  
Mediterranean traffic

- 01 ALGECIRAS
- 02 ARZEW
- 03 BARCELONA
- 04 BASTIA
- 05 BEJAIA
- 06 BEIRUT
- 07 CARTAGENA
- 08 CIVITAVECCHIA
- 09 DURRÈS
- 10 IGOUMENITSA
- 11 LUKA KOPER
- 12 MALTA FREEPORT
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- MOROCCAN PORTS AGENCY 14
- SERPORT GROUP 15
- SÈTE 16
- SKIKDA 17
- TANGER MED 18
- TARANTO 19
- TOULON 20
- TUNISIAN NATIONAL PORTS 21
- VALENCIAPORT 22
- VENICE 23
- 2 Associate members
- PORT TRAINING INSTITUTE 01
- IMFMM 02





# Mediterranean Green Deal



Towards a  
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“Blue economy is a low polluting, resource-efficient and circular economy based on sustainable consumption and production patterns, enhancing human well-being and social equity, generating economic value and employment, and significantly reducing environmental risks and ecological scarcities.

*-“A blue economy for a sustainable development of the Mediterranean region” conference organized by Plan Bleu under the umbrella of the MAP in May 2017 proposed the definition*

## BLUE ECONOMY

### SHIPPING,

90% of the goods exchanged in the world are made by maritime trade routes

### TURNOVER,

More than 3 000 billion of added value

### SOCIO-ECONOMIC IMPACT,

31 millions jobs around the world





## BLUE ECONOMY: issues and challenges

### PROSPERITY,

Bringing out paths for a sustainable and inclusive growth

### ENVIRONMENT,

Organizing resilience, developing sustainability

### DEMOGRAPHY,

Helping the populations to have a better experience of their territories



# BLUE ECONOMY AND THE MEDITERRANEAN

In the core of the maritime trade routes

A cultural and historical linked set

At the center of environmental challenges

Diversity and biodiversity





## The main challenges in the Mediterranean Ports for sustainable Blue Economy are

Climate change

**Carbon budgets**, facilitating the transition towards a low carbon economy

Marine **renewable** “blue” energy generation

**Sustainable use of natural resources** and the conservation of **marine biodiversity**

**Digitalization** for transport and logistics

**Marine and coastal tourism**



## 3Ps OBJECTIVES TOWARDS BLUE ECONOMIC GROWTH

### Performance

- A better management of **blue economic development** will make your port competitiveness.

### People

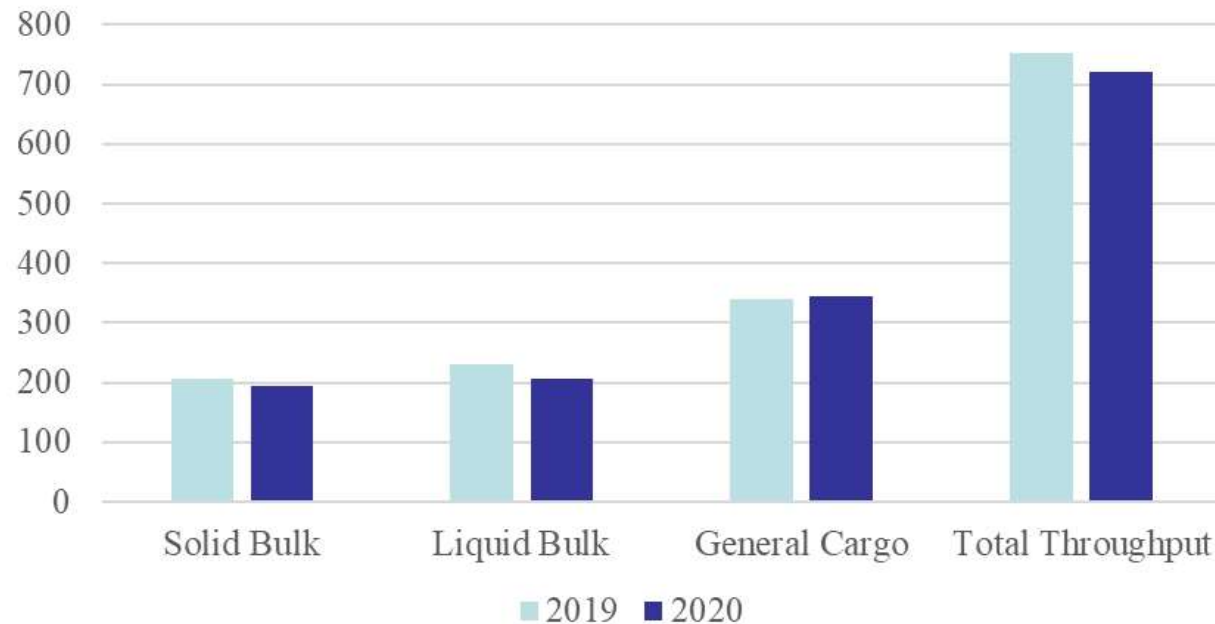
- A better management of **blue economic development** meets the objective of a better integration of the port activities in the cities and among the population.

### Planet

- A better management of **blue economic development** will reduce the impact of the maritime transport on the climate change.

## Total throughput of the MedPorts in 2020

Traffic Evolution  
Millions of tons



**722.4 MillionTons**  
**34.8 Million TEUs**  
**10 Million Passengers**



## Today

- Capture fishing
- Processing and distributing of sea products
- Shipping
- Port activities
- Shipbuilding and ship repair
- Deep water oil and gas
- Coastal and marine tourism
- Services to companies in the maritime sectors
- Marine/maritime R&D
- Dredging



## Tomorrow

- Aquaculture
- Deep water oil and gas
- Offshore wind power
- Renewable energy
- Mining operations
- Maritime safety and security surveillance
- Marine biotechnology
- High technology maritime goods and services

Dredging

Skills &  
Competencies



## MEDPorts Association developed International Training Courses for Port & Logistics Future Professions



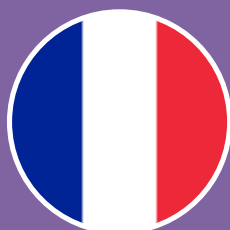
### Energy Transition

Escola Europa  
November 2021



### Supply Chain Resilience

AASTMT  
February 2022



Innovative Subsidiaries for  
Sustainable Port Activities  
Marseille-Fos Institute  
May 2022



Digital Transition  
Valencia Port foundation  
September 2022



### Port Development

IMFMM  
December 2022



## Skills & Competencies

### MEDPorts Association



### Staff Exchange Program

MEDPorts Association introduces a Staff Exchange Program within MEDPorts network through a visit of one member port intern or young employee to another member port.

#### With main objectives as follows:

- o **Providing** interns/young employees with international experiences in the shortest possible time through real-time coexistence and on-job training,
- o **Strengthen** the ties between ports of the MEDports network,
- o **Exchange** of information and best practices







MALTA FREEPORT CORPORATION

## ONSHORE POWER SUPPLY



### Valletta & Marsaxlokk Malta :

1 connecting point for LNG FSU at Marsaxlokk.

By 2024:

2x 7.5 MVA at Malta Freeport Terminals

4x16MVA + 1x6 MVA at Valletta Port – 37mEuros

Further major developments planned

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## PORT OF KOPER - THE REAL GREEN PORT



### MANAGING ENVIRONMENTAL IMPACTS

#### ECO-MANAGEMENT AND AUDIT SCHEME COMPLIANT

Evaluating, reporting, and constantly improving our environmental performance



\*PREVERJEN SISTEM RAVNANJA Z OKOLJEM  
SI-00004

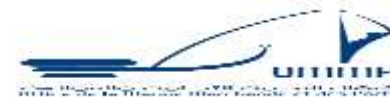
Comprehensive monitoring of dust emissions, noise emissions, energy and water consumption.

Sea protection:  
24/7 state of alert of anti-pollution vessels

### INVESTING IN TECHNOLOGY

#### REDUCING CARBON FOOTPRINT

- 20,7 % of port energy consumption is from renewable sources
- Setting up micro-photovoltaic systems: 1,25 MW by 2025 and 4 MW by 2030
- Switching to electrified machinery (e-RTGs & other)
- Installing low-consumption lighting
- Plans for on-shore power supply (OPS) system for vessels



ديوان البحرية التجارية والموانئ

Tunisian Republic  
Ministry of Transport  
Merchant Marine  
and Ports Authority

## Overview of Commercial Tunisian Maritime Port Activities 2021

### 1. Installation of photovoltaic for electrical energy production:

Established since 2015 / Average annual production of 825,000 Kwh 20% Port consumption

### 2. Studies: Conduction of energy efficiency and renewable energy program at the OMMP:

In the process of **looking funding** for this project / Cover **80%** of OMMP energy needs

### 3. Electrical connection of quayside ships at La Goulette Port (Tunis):

Project feasibility study: **Ongoing** / **Funding**: French Development Agency (AFD) / **Looking for funding** to carry out works

### 4. Hydrogen production at the port of Zarzis; Within the framework of PPP:

Private investment initiative for photovoltaic installation, where 100 Ha dedicated for the extraction of hydrogen from the water.  
In addition, the operation of a public port area at Zarzis Port as a station reserved for the storage and export of hydrogen.

### 5. Development of an Environmental and Social Management System (ESMS):

**Objective:** Technical assistance for the implementation of an ESMS

ESMS implementation: **Ongoing** / **Funding**: French Development Agency (AFD).

## OMMP: Stakeholder in the strategy of the blue economy development





## The Port of Barcelona in 2040: The relevance of Blue Economy

According to the Port of Barcelona’s IV Strategic Plan, the Port will turn into a space with the following main attributes:

### Clean alternative fuel hub

Generation, storage and supply of renewable energy using the “green” hydrogen vector. Barcelona and its port are one of the European capitals of the production and supply of “green” hydrogen.

### More integrated and extensive city-port

City-port space has increased by 30% compared to 2020. As a result, the port is no longer a physical barrier to mobility on Barcelona’s seafront and has become a new metropolitan centre for economic and leisure activity.

### Innovation hub and training in robotics and automation

A hub of innovation and training in robotics to program, control and maintain digital (RPAs) and physical automata (autonomous vehicles, machinery and other robots)



### Blue Economy Technology District

The Port Vell has positioned itself as a new technological district linked to the blue economy through the concentration of high-level training centres, hubs of incubation and acceleration of start-ups and attraction of companies and talent to bring innovation and value to all port, maritime and logistics activity in general.

### Autonomous intermodal hub

A fully connected infrastructure for the autonomous freight and passenger vehicle. In some areas it is even segregated from conventional traffic to ensure efficiency and safety.

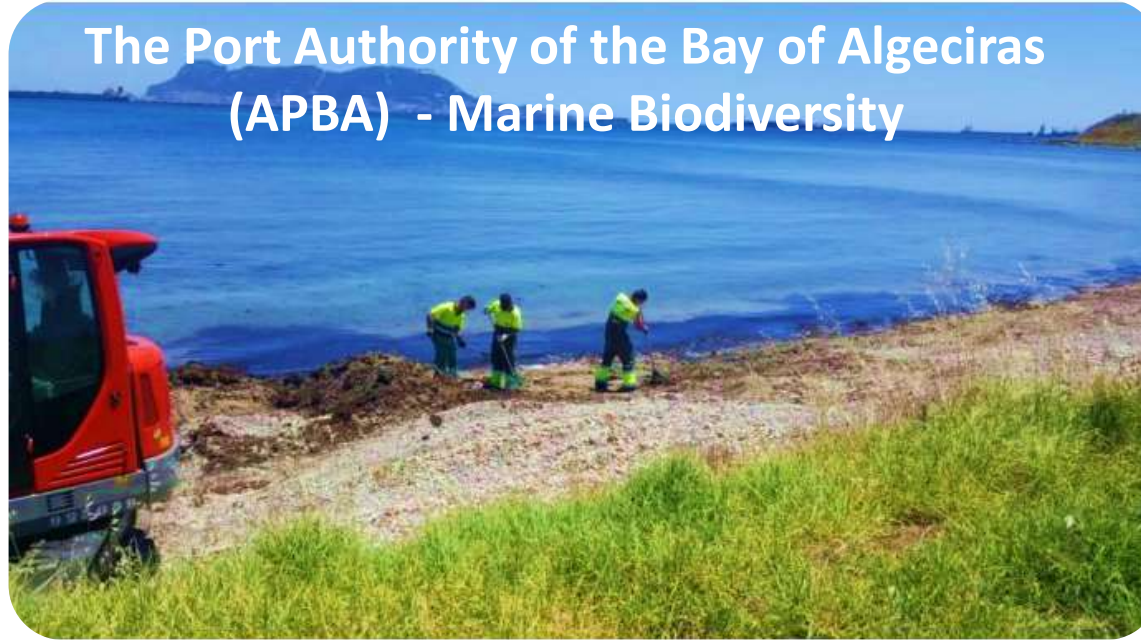
### Additive manufacturing hub applied to logistics chains

3D printer industry centre with high value-added for the passage of goods. Barcelona is becoming part of the production chain of consumer goods by providing the final “customisation” of products.

### Circular economy hub

An eco-factory that manages energy and waste efficiently, giving goods and passengers passing through the port a zero carbon footprint or even one with a positive balance, thus contributing to decarbonise logistics chains

## The Port Authority of the Bay of Algeciras (APBA) - Marine Biodiversity



**The APBA will monitor the ports of Algeciras and Tarifa for the early detection of potentially invasive species**

The Port Authority of the Bay of Algeciras (APBA) it has just signed an agreement with the Research Foundation of the University of Seville (FIUS), according to develop a project of maximum interest for the port institution for the next 4 years, which is part of the commitments of sustainability of its Green Strategy.



## 4 strategic ambitions :

To improve the economic and environmental performance of the port and logistics and industrial ecosystem

To create new sources of value and employment in particular in the digital sector

To Strengthen the relations and interactions between the Port and the metropolitan territory

To promote the port and contribute in the Mediterranean

Translated with [www.DeepL.com/Translator](https://www.DeepL.com/Translator) (free version)





# CONCLUSIONS FOR A BLUE ECONOMY

COOPERATION

INCLUSIVE APPROACH

PUBLIC PRIVATE PARTNERSHIP

FINANCING




The International Maritime  
Transport and Logistics Conference

**“Marlog 11”**

Join us to take  
action together  
In Algeciras

On  
**28<sup>th</sup> of April,**  
**2022**



**MEDports**  
ASSOCIATION

**save the date**

The Algeciras Bay Port Authority & the MEDports association are pleased to invite you at a technical seminar entitled:

**GREEN TRANSITION  
FOR MARITIME TRANSPORT**

On **April 28<sup>th</sup>, 2022**, in Algeciras

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**Algeciras Port**

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**Puerto de  
Algeciras**

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### 3 TECHNICAL COMMITTEES

**Biannual Technical Committees Meeting** for defining roadmaps and planning for MEDPorts activities.

**Monthly Coffee Meetings** attended by all members

**Joint Webinars** with International Organizations

**Regular Seminars and Webinars** on Maritime and Ports Industry

**MEDPorts Forum in Summer on 7<sup>th</sup> & 8<sup>th</sup> of July, 2022 in Civitavecchia**  
**“The Challenge of Digitalization in the Mediterranean”**



**MEDports**  
FORUM

**save the date**

The MEDports Association and the Port Authority of Civitavecchia are pleased to invite you to the **MEDports FORUM 2022** on 7 & 8 July in Civitavecchia

The theme of this forum will be:  
**THE CHALLENGE OF DIGITALIZATION IN THE MEDITERRANEAN:**  
Challenges, objectives, determining factors, and risks

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**Thank YOU**

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