Roadmap For Enhancing

Green Transition

In South Mediterranean Ports

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Asia – Europe Shipping route represents one of the most important routes impacting the European trade as it passes through the Mediterranean which shed the light on the importance of the urgent need for green transition in South Mediterranean ports and the urgency of keeping pace with the environmental initiatives in Europe.
Demonstrating the importance of South Mediterranean ports, it shows that:

- Suez canal - Egypt represents the main pivotal hub that connects the Far East to European ports
- Tangier – Morocco represents the western gate of Europe to African Trade
- Algeria and Libya represents a major and alternative reserve for oil and gas
- Tunisia represents one of the most important coastal tourism destinations in Europe
The Importance of Green Transition in Southern Mediterranean Ports

3

The orientation of the European shipping and port community to impose strict environmental regulations and fines, which may directly affect the trade between Europe and Africa.

4

According to the IMO Initial GHG Strategy, it became essential to adopt effective strategies to reduce CO2 emissions, by at least 40% by 2030, pursuing efforts towards 70% by 2050.
• Establishment of the mega green hydrogen ship refueling station in the Suez Canal area.
• There is a plan to replace logistics equipment to work with electricity and clean energy (implementation – 2023) - Biggest solar power plant in the world.
• Expansion of the construction of solar energy platforms to serve the port of Damietta and East Port Said.
Green Transition Emerging Initiatives in Egyptian Ports

- Strict regulations have been established on ballast water disposal since 2019
- Encouraging foreign investments in terms of waste and emissions recycling
- Planning to adopt ambitious strategies for the blue economy, supported by the Presidency of the Republic
Egypt enhances its role in turning to green economy, increasing dependence on new and renewable energy and using advanced technologies to build a resilient world, by engaging with all non-Party stakeholders such as NGOs, civil society, and the private sector.

- The Conference will focus on:
  - Climate Adaptation;
  - Climate Mitigation;
  - Climate Finance.
## Major Challenges Faces Green transition in South Med Ports

<table>
<thead>
<tr>
<th>Regulations</th>
<th>Investment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Lack of precautionary measures to prevent the ships to dispose their ballast water in the berth</td>
<td>- Insufficient legalizations and tax exemption on green transition innovations in order to encourage investments (Under modification and development)</td>
<td>- Insufficient futureproof and sustainable infrastructure</td>
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<td>- The need for more environmental Port-City integration</td>
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Major Challenges Faces Green transition in South Med Ports

**Energy**
- Lack of existing renewable power platforms on the berths.
- Lack of using clean energy for port equipment.

**Awareness**
- The need to enhance HR environmental awareness, as well as capacity building
- Lack of Green Transition Future profession
- Cooperation with EU ports (exchange of experiences – Joint programs)

**Ecosystems**
- Insufficient Recycling platforms
- Lack of Environmental guidelines and indexes
- Lack of Environmental indicators and quality assurance
Action plan for Enhancing Green Transition in South Mediterranean Ports towards Sustainable Green Transition

Environmental Technologies

Monitoring & Upgrading

Process & Quality Improvement

Active Participation

Communications & Cooperation

- Equipment Renovation
- Renewable Energy Platforms
- Environmental Digitalization
- Sustainable Constructions

- Reducing Financial Environmental Risks
- Improving Safety & Security
- Environmental Index Development

- Port-City Integration
- Port Infrastructure Utilization
- Environmental Service quality development

- Awareness and capacity building
- Keeping pace with international green Transition initiatives

- Encouraging Innovation
- Transparency
- Sharing Knowledge and practices
- Cooperation with Stockholders
Proposed Solutions for Enhancing Green Transition In Term of Investment

- Promoting Smart Governance
- Providing Encouraging Taxes and Customs Legislation
- Encouraging Rules for Clean Energy Investments in Ports
- Encouraging Foreign Investment and Joint Environmental Projects
- Promoting Sustainable Blue Economy
Proposed Solutions for Enhancing Green Transition

In terms of Infrastructure

- Construction
  - Futureproof / Sustainable Constructions
  - Environmental Friendly Buildings

- Equipment
  - Gradual Substation and replacement of port equipment to run on renewable energy

- Energy
  - Energy Transition
  - Renewable Energy Platform

- Innovative Technologies
  - Recycling Innovations

- Digitalization
Proposed Solutions for Enhancing Green Transition in term of Awareness and Planning Capacity Building

- Identify
  - Future professions for Green Transition
  - Qualifications
  - Tasks and Responsibilities

- Evaluate
  - Knowledge
  - Skills
  - Attitude

(Awareness Campaign - Training Plan - Programs)
Proposed Solutions for Enhancing Green Transition in term of Awareness and Planning Capacity Building

Cooperation with European Ports and maritime Authorities

Academic Training Institutes

MED Capacity Building Campaign

KSA

Theoretical

Practical

Industry Port Authorities
Cooperation with European Ports and maritime Authorities

MED Capacity Building Campaign

- Sustainability
- Safety & Security
- Energy
- Governance
- Digitalization
- Green Transition
- Resilience
Port Training Institute – Best Practices
Accreditations

ILO •

UNDP •

UNCTAD •

IMO •

PDP •
Scope of Training

- Maritime Management
- Financial Management
- Simulator
- Ports & Logistics
- Computer & IT Engineering
- Electronic Management for Ports
Scope of Training

Number of Trainees since Establishment: +500,000

Number of Training Programs: +17,000
On March 20th 2022, PTI and APEC has signed a memorandum of understanding to establish a joint training center.

This center aims to set a yearly training program consists of 6 Joint Courses with 6 Different Topics and shall be held in Alexandria with joint efforts between PTI and APEC.
PTI is the South Mediterranean Regional Center for MEDPorts association.
Group of Training Courses Cope with the Modern Trends and the Requirements of the Future Professions for Ports and Logistics Community

- **Energy Transition**
  - Escola Europa
  - November 2021

- **Supply Chain Resilience**
  - AASTMT
  - February 2022

- **Cyber Security in Ports**
  - Marseille-Fos Institute
  - May 2022

- **Digital Transition**
  - Valencia Port Foundation
  - September 2022

- **Port Development**
  - IMFMM
  - December 2022

**Audience and Participants**
France, Spain, Italy, Egypt, Tunisia, Saudi Arabia, USA, Nigeria, Albania, Turkey, England
Training Cooperation with Mediterranean Entities to Enhance Port and Logistics Capabilities

Port and Logistics Diploma
May 2016

Developing Strategy & Marketing Plan for Port Services Diploma

Creativity & Innovation for Decision Makers of Ports & Maritime Transport Sectors Diploma
January 2018
Training Cooperation with Mediterranean Entities to Enhance Port and Logistics Capabilities

Future Investments in Ports: Towards new PPP Approaches Diploma
October 2018

Digital Transformation Towards Fourth Generation Ports “Smart Ports”
February 2020

Crisis Management in Ports
July 2020

Training Cooperation with Mediterranean Entities to Enhance Port and Logistics Capabilities
Training Cooperation with Mediterranean Entities to Enhance Port and Logistics Capabilities

Transport and Handling of Dangerous Cargoes in Port Areas
October 2020

Digital Transformation and Development of Smart Ports
April 2021

Maritime Electronic Arbitration
June 2021
Training Cooperation with Mediterranean Entities to Enhance Port and Logistics Capabilities
Leading Innovation

International Research Projects
YOUTH EMPLOYMENT IN PORTS OF THE MEDITERRANEAN

YEP-MED

Duration: 30 Months (Sept 2020 – March 2023)
Budget: 2.9 Million Euros
Stakeholders: 11 partners - 7 countries
General Overview: ENI - CBC Grant affiliated to the UN

Vocational and operational Training

Theoretical

Practical

Simulation (ERP)

50% women

30% employees

70% Students

350 Training opportunity (20 employed each year)
• Three Editions (for both Vocational and Operational Training)

• Project levels:
  ❖ **Level one**: 105 trainees – Theoretical and Practical Training
  ❖ **Level Two**: 45 Trainees are trained using ERP Simulation Systems.
  ❖ **Level Three**: Same 45 are provided with internships for 3 months.
  ❖ **Level Four**: 20 (best) are provided with employment contracts for 6 to 12 months.
TECHLOG - Technological Transfer for Logistics Innovation in Mediterranean area

Project duration: 30 months (2021 - 2024).

The project supports Technology Transfer Initiatives

Objective
To achieve quality standards for Port and multimodal transport operators (workers) through the establishment of an Open Lab for the Mediterranean region aiming to support and activate these initiatives, the project focuses on advanced simulation techniques and its impact enhancing skills and capabilities
Work Together, Gain Together