



# Roadmap For Enhancing Green Transition In South Mediterranean Ports



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# The Importance of Green Transition in Southern Mediterranean Ports



1

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



# The Importance of Green Transition in Southern Mediterranean Ports

2

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.



# Green Transition Emerging Initiatives in Egyptian Ports

- 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



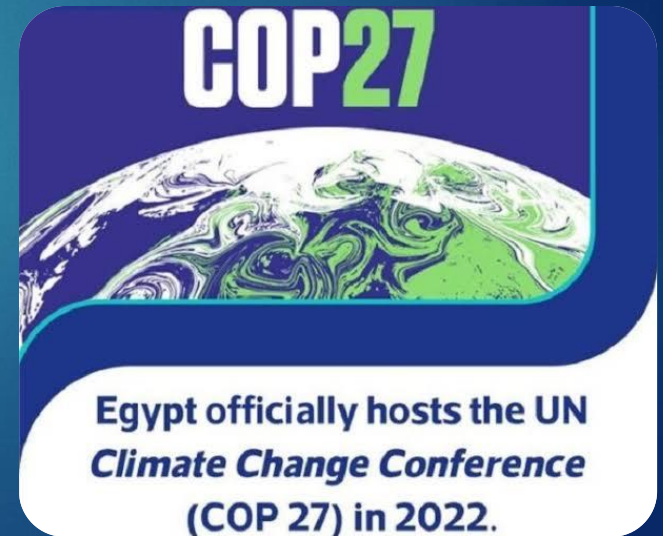
# Green Transition Emerging Initiatives in Egyptian Ports

## UN Climate Change Conference 2022 (COP 27), EGYPT.



United Nations  
Climate Change

- 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

## Regulations



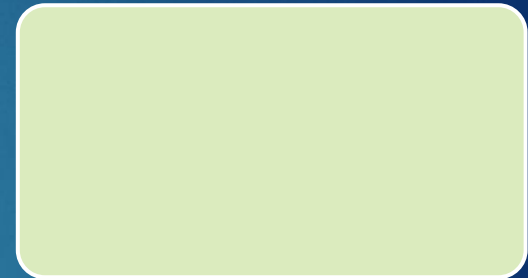
- Lack of precautionary measures to prevent the ships to dispose their ballast water in the berth

## Investment



- Insufficient legalizations and tax exemption on green transition innovations in order to encourage investments  
(Under modification and development)

## Infrastructure



- Insufficient futureproof and sustainable infrastructure
- The need for more environmental Port-City integration





# 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



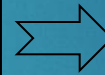
- Equipment Renovation
- Renewable Energy Platforms
- Environmental Digitalization
- Sustainable Constructions

Monitoring &  
Upgrading



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

Process &  
Quality  
Improvement



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

Active  
Participation



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

Communication &  
Cooperation



- Encouraging Innovation
- Transparency
- Sharing Knowledge and practices
- Cooperation with Stockholders

Roadmap

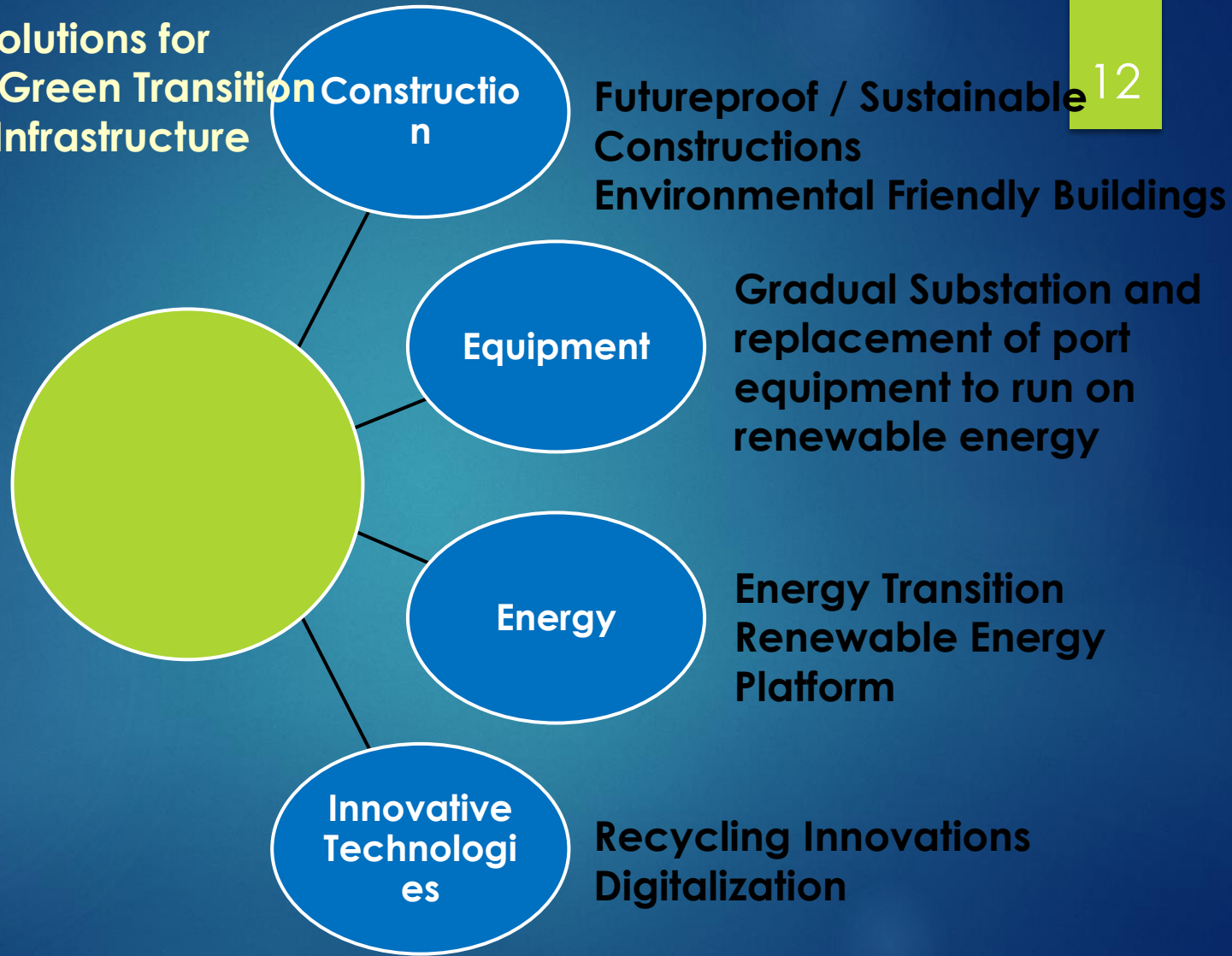


# Proposed Solutions for Enhancing Green Transition In Term of Investment





# Proposed Solutions for Enhancing Green Transition In terms of Infrastructure





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

**Identify**

Future professions  
for Green Transition

**Identify**

Qualifications

Tasks and  
Responsibilities

**Evaluate**

Knowledge

Skills

Attitude

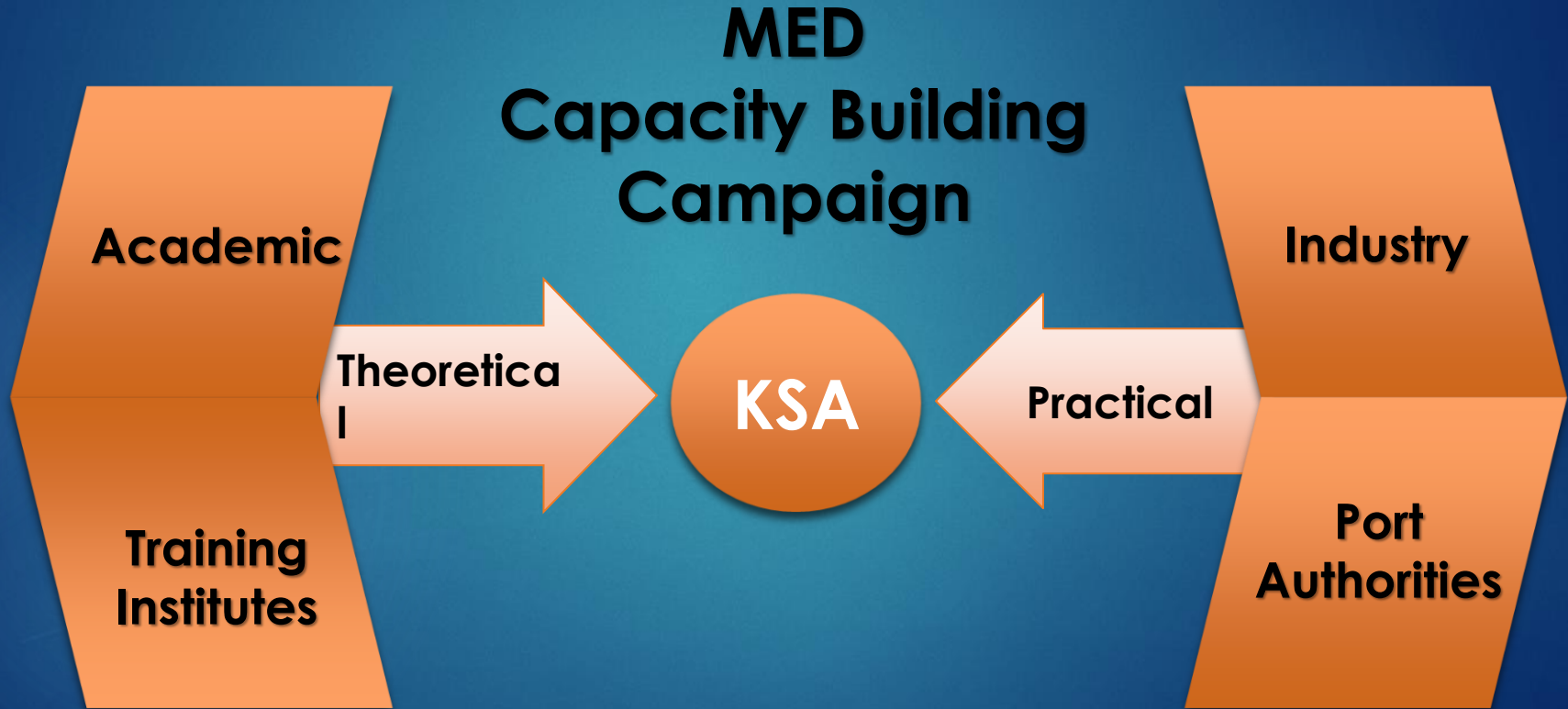
**(Awareness Campaign- Training Plan - Programs)**



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

14

## Cooperation with European Ports and maritime Authorities





# Cooperation with European Ports and maritime Authorities

15



# Port Training Institute – Best Practices







# Accreditations



ILO •



U | N  
D | P

UNDP •



UNCTAD

UNCTAD •



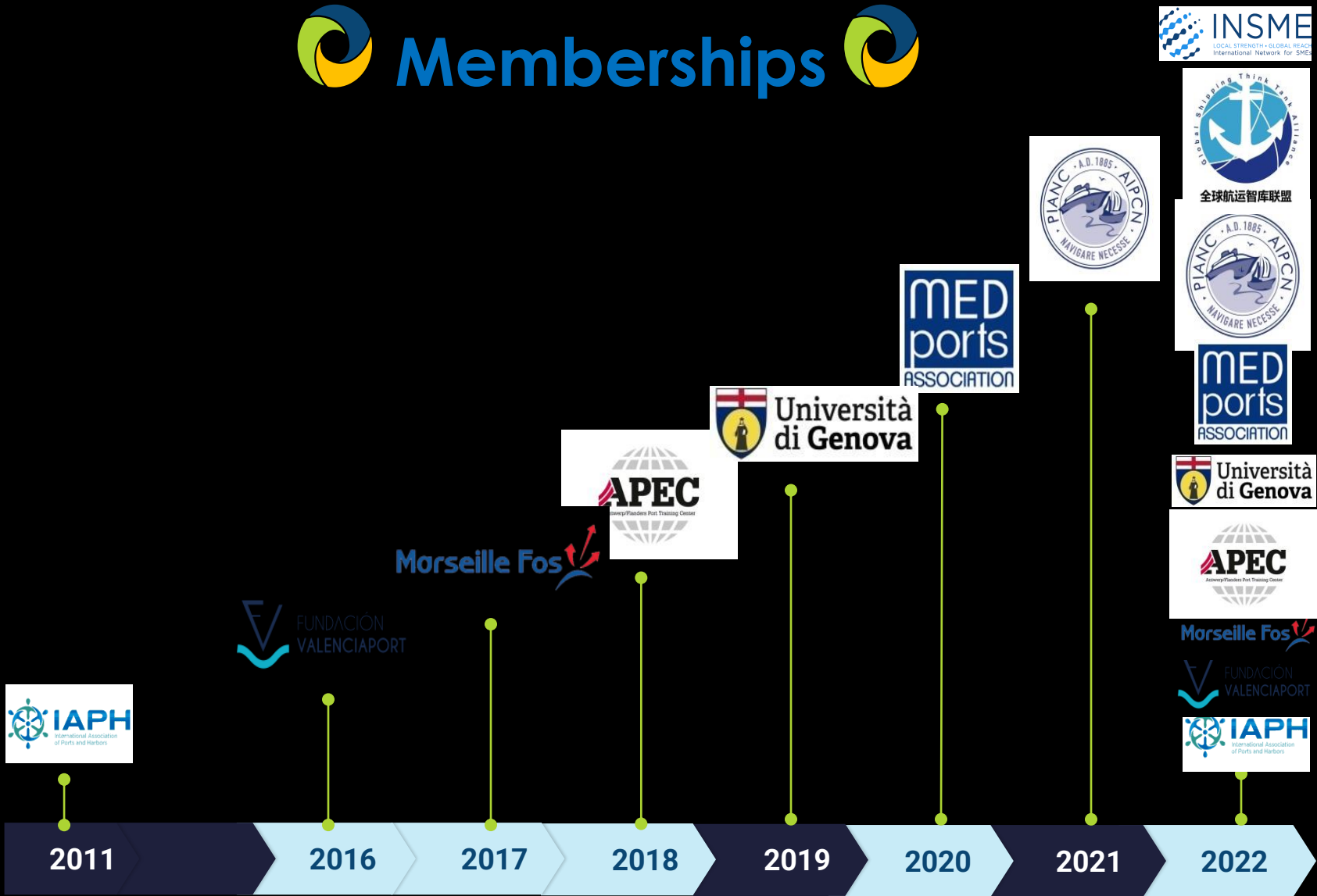
IMO

IMO •

PDP

PDP •

# Memberships



**INSME**  
LOCAL STRENGTH - GLOBAL REACH  
International Network for SMEs



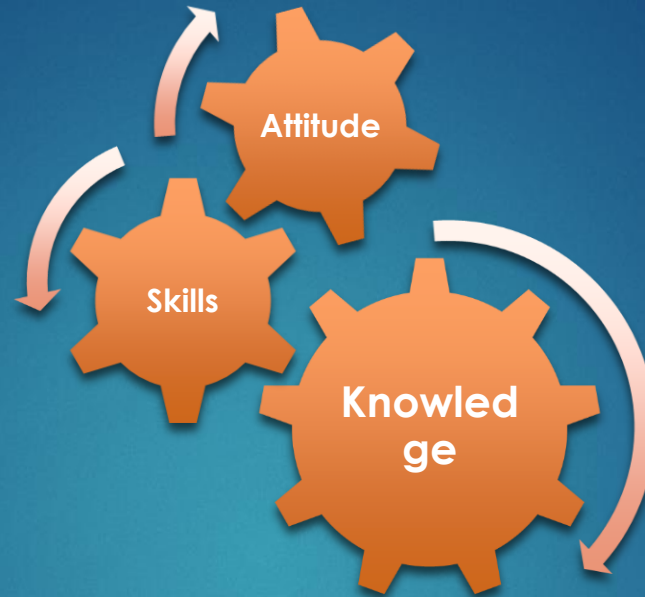
全球航运智库联盟



# Scope of Training



# Scope of Training



Number of Trainees  
since Establishment:  
+500,000

Number of Training  
Programs : +17,000



# **International Cooperation**



## PTI –APEC Center of Excellence

On March 20<sup>th</sup> 2022, PTI and APEC has signed a memorandum of understanding to establish a joint training center.

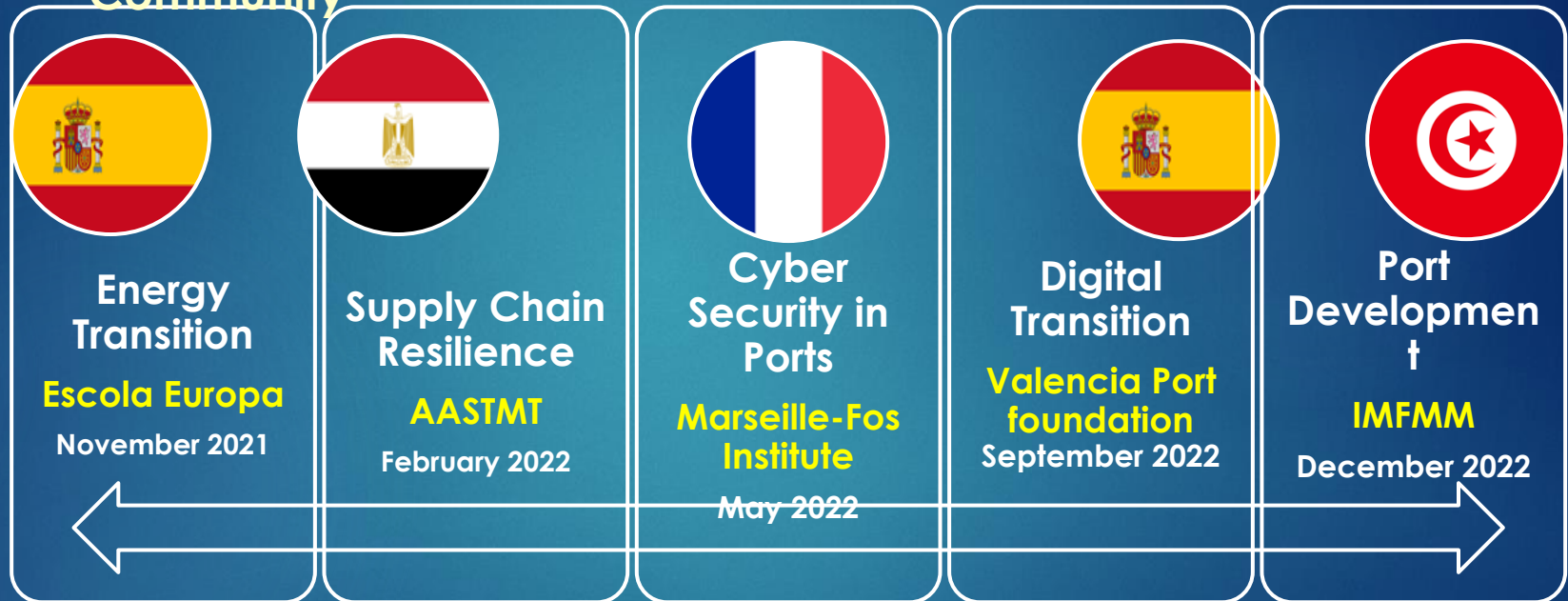
This center aims to set a yearly training program consists of 6 Joint Courses with 6 Different Topics and shall be held in Alexandria with joint efforts between PTI and APEC.



**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



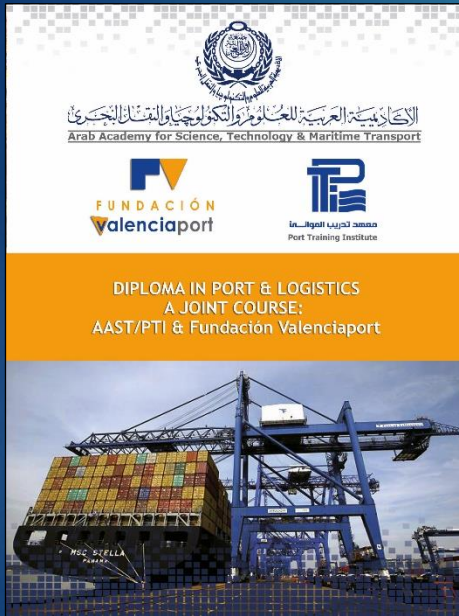
### Audience and Participants

France, Spain, Italy, Egypt, Tunisia, Saudi Arabia, USA, Nigeria, Albania, Turkey, England

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

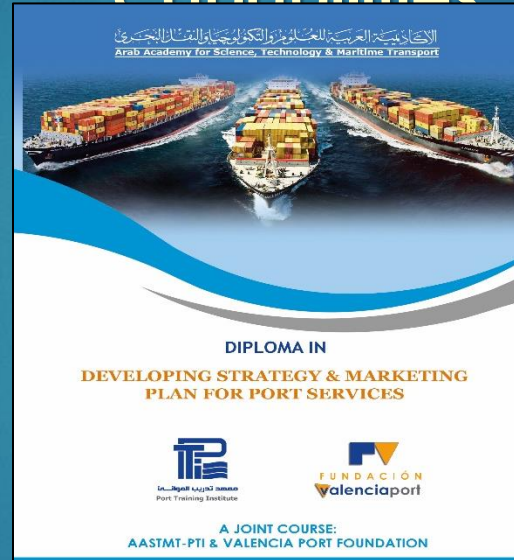


Spain

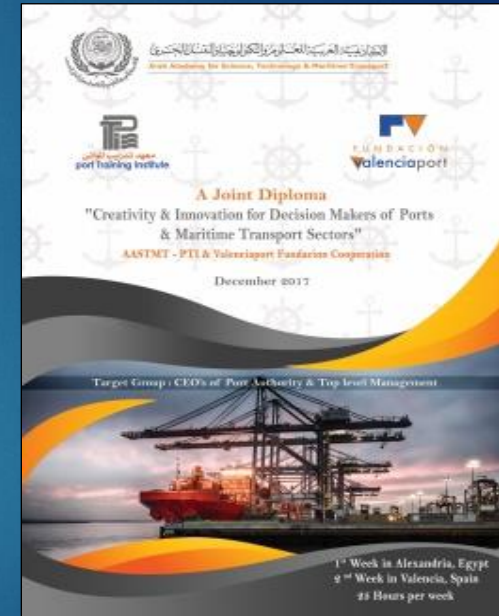


Port and Logistics Diploma

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**

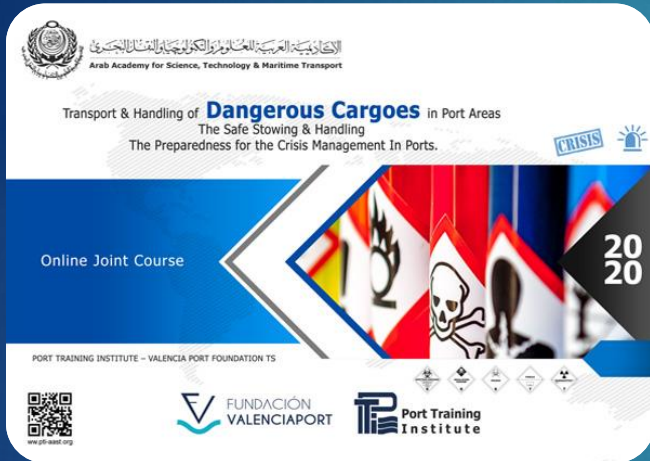


**Digital Transformation  
Towards Fourth  
Generation Ports "Smart  
Ports"  
February 2020**



**Crisis Management in  
Ports  
July 2020**

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

Arab Academy for Science, Technology & Maritime Transport

Transport & Handling of **Dangerous Cargoes** in Port Areas  
The Safe Stowing & Handling  
The Preparedness for the Crisis Management In Ports.

CRISIS

Online Joint Course

20  
20

PORT TRAINING INSTITUTE - VALENCIA PORT FOUNDATION TS

FUNDACIÓN VALENCIAPORT

Port Training Institute

www.pti-aad.org



Arab Academy for Science, Technology & Maritime Transport

*Agenda*

**Digital Transformation**  
and development of smart ports

Online Joint Diploma  
in cooperation with  
Valenciaport Foundation

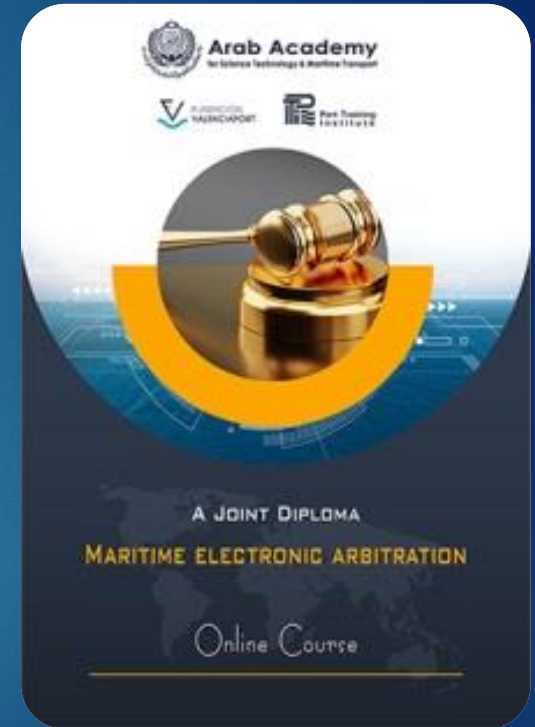
20  
21

A <sup>2021</sup> April

3-4-5 April provided by Port Training Institute  
6-7-8 April provided by Valenciaport Foundation

Port Training Institute

FUNDACIÓN VALENCIAPORT



Arab Academy  
for Science Technology & Maritime Transport

FUNDACIÓN VALENCIAPORT

Port Training Institute

A JOINT DIPLOMA  
**MARITIME ELECTRONIC ARBITRATION**

Online Course

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



Arab Academy for Science, Technology & Maritime Transport

L'institut by Marseille Fos

Port Training Institute

**Diploma In**  
**RISK AND LOSS MANAGEMENT**

*A Joint Course :*  
*AASTMT- Port Training Institute & L'Institut de formation port de Marseille Fos*

LET'S CHOOSE THE APPROPRIATE ACTIONS AND TAKE THE RIGHT DECISIONS

Aug 2017

Arab Academy for Science, Technology & Maritime Transport

**Port Marketing & Statistics**  
Focus on the COVID-19 Period

Online Joint Course

2020

Institute by Marseille Fos, France,  
Port Training Institute - Alexandria -Egypt

Port Training Institute

L'institut by Marseille Fos

BUE

Nov 2020

Arab Academy for Science, Technology & Maritime Transport

Port Training Institute

Marseille Fos

L'institut by Marseille Fos

**Container Terminals Automation**  
(A Joint Diploma)

1<sup>st</sup> Week ( 4-8 Jan,2021) in Alexandria, Egypt  
2<sup>nd</sup> Week ( 10-14 Jan,2021) in Marseille, France

Feb 2022

Leading Innovation

**International Research  
Projects**

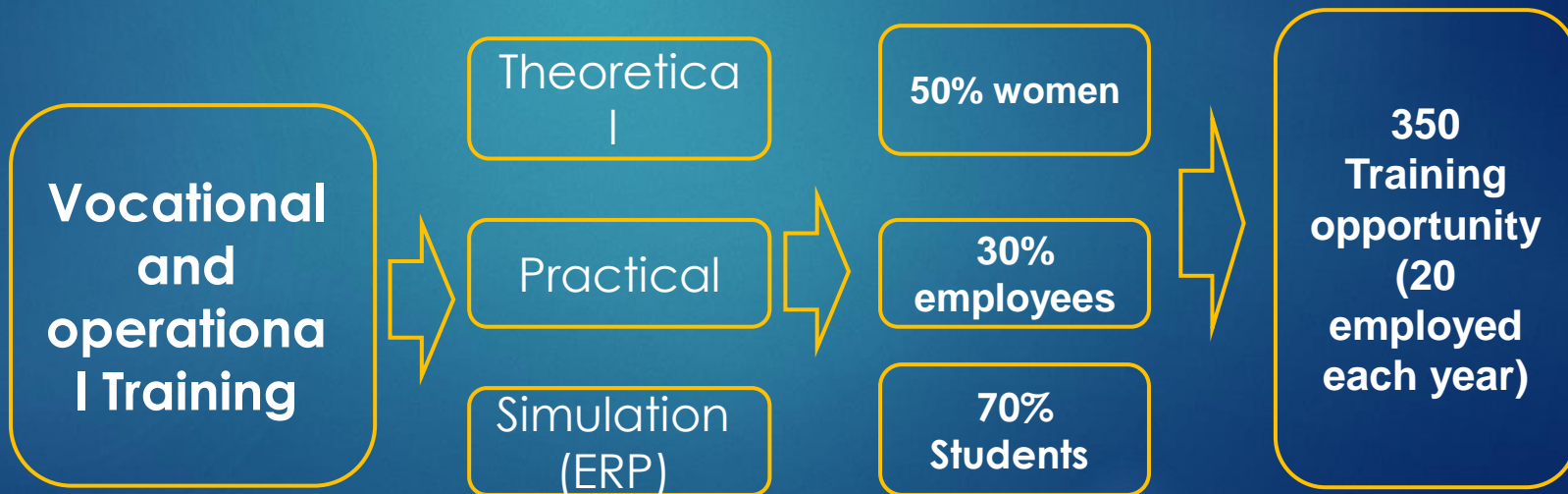
# YOUTH EMPLOYMENT IN PORTS OF THE MEDITERRANEAN YEP-MED

**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



# "YEP-MED Youth Employment in Ports of the Mediterranean"



- **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**

