



GreenMED



Co-funded by the
European Union

GreenMED project overview & vision: **the Mediterranean Sustainable Shipping Observatory (MSSO)**

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Motivation



Decision-making



regulatory framework,
national/regional
policies

Reaching the IMO & EU
targets for shipping
decarbonisation

financial
incentives



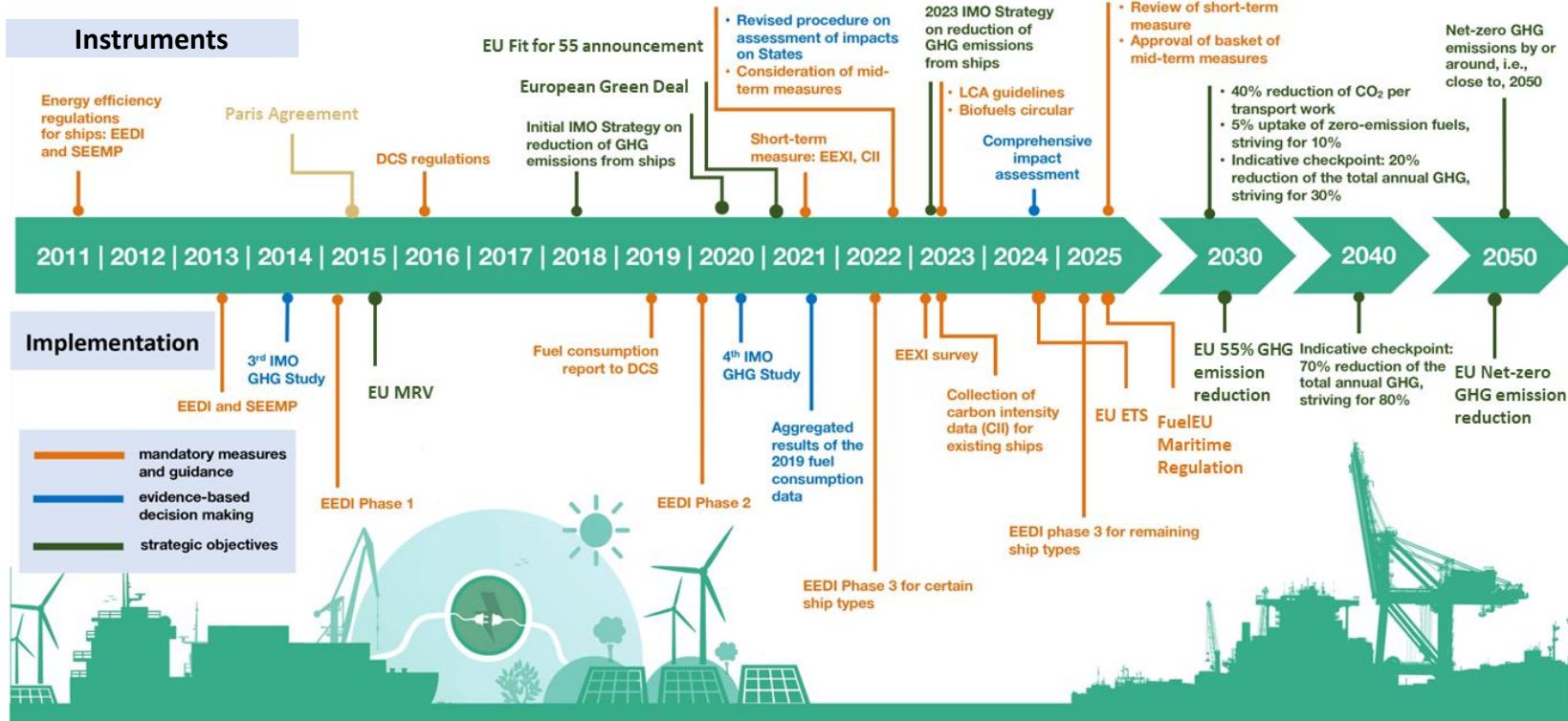
strategic planning
and investments

Alternative fuels
infrastructure



Ship energy
efficiency measures

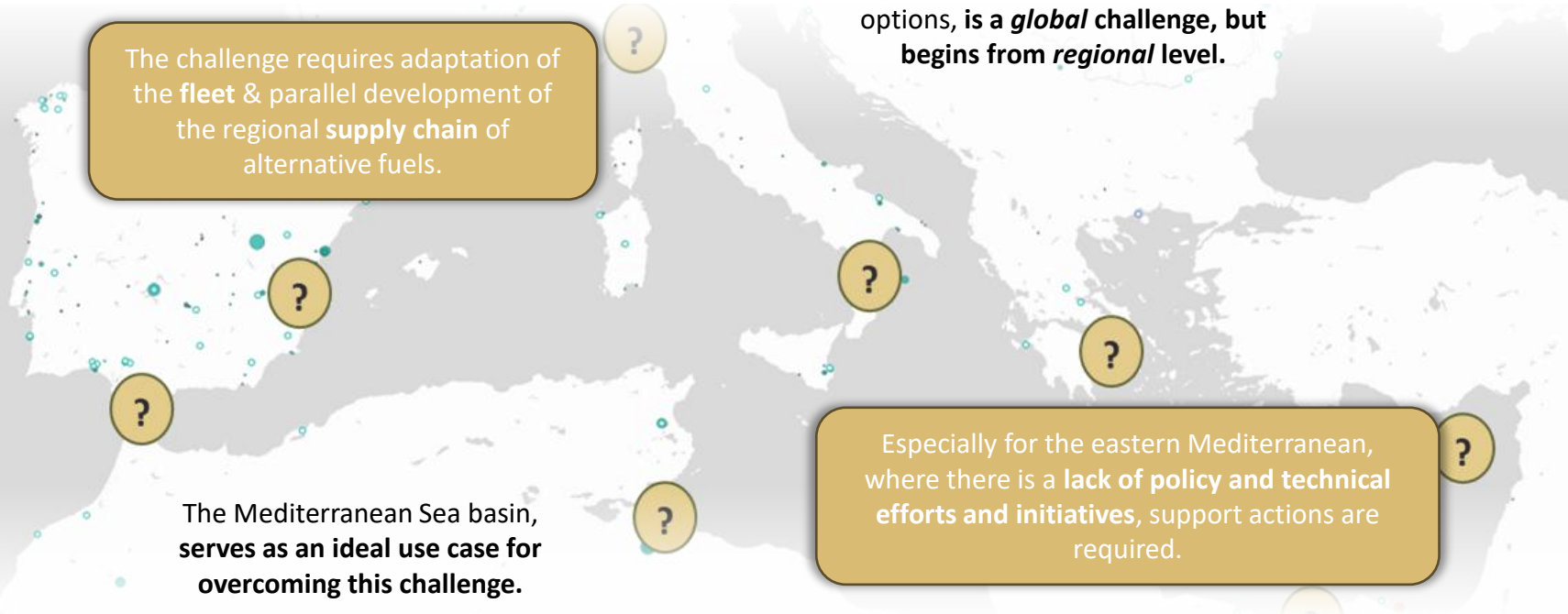
Regulatory Complexity



adapted from <https://www.imo.org/en/MediaCentre/HotTopics/Pages/Cutting-GHG-emissions.aspx>

The Main Challenge

The clean energy transition, namely the shift to alternative fuel options, is a **global challenge**, but **begins from regional level**.



The challenge requires adaptation of the **fleet** & parallel development of the regional **supply chain** of alternative fuels.

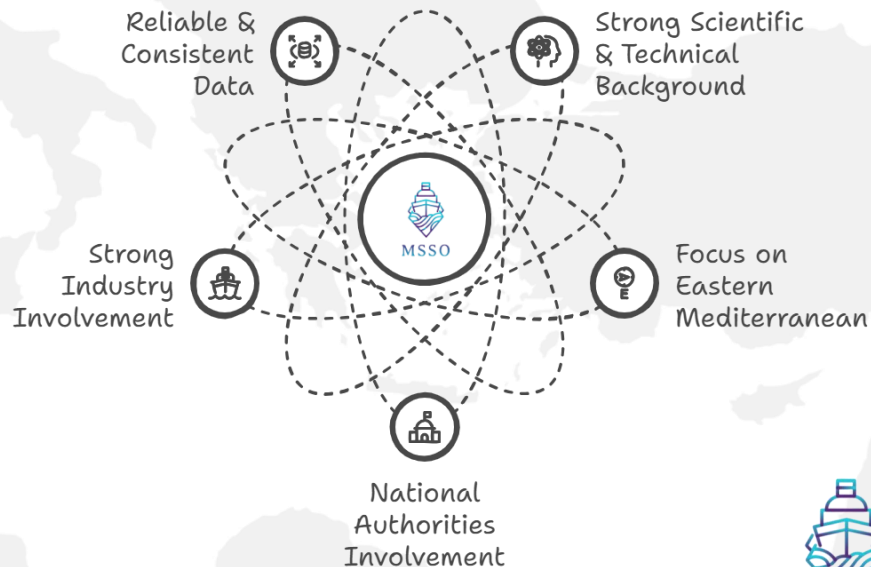
The Mediterranean Sea basin, serves as an **ideal use case for overcoming this challenge**.

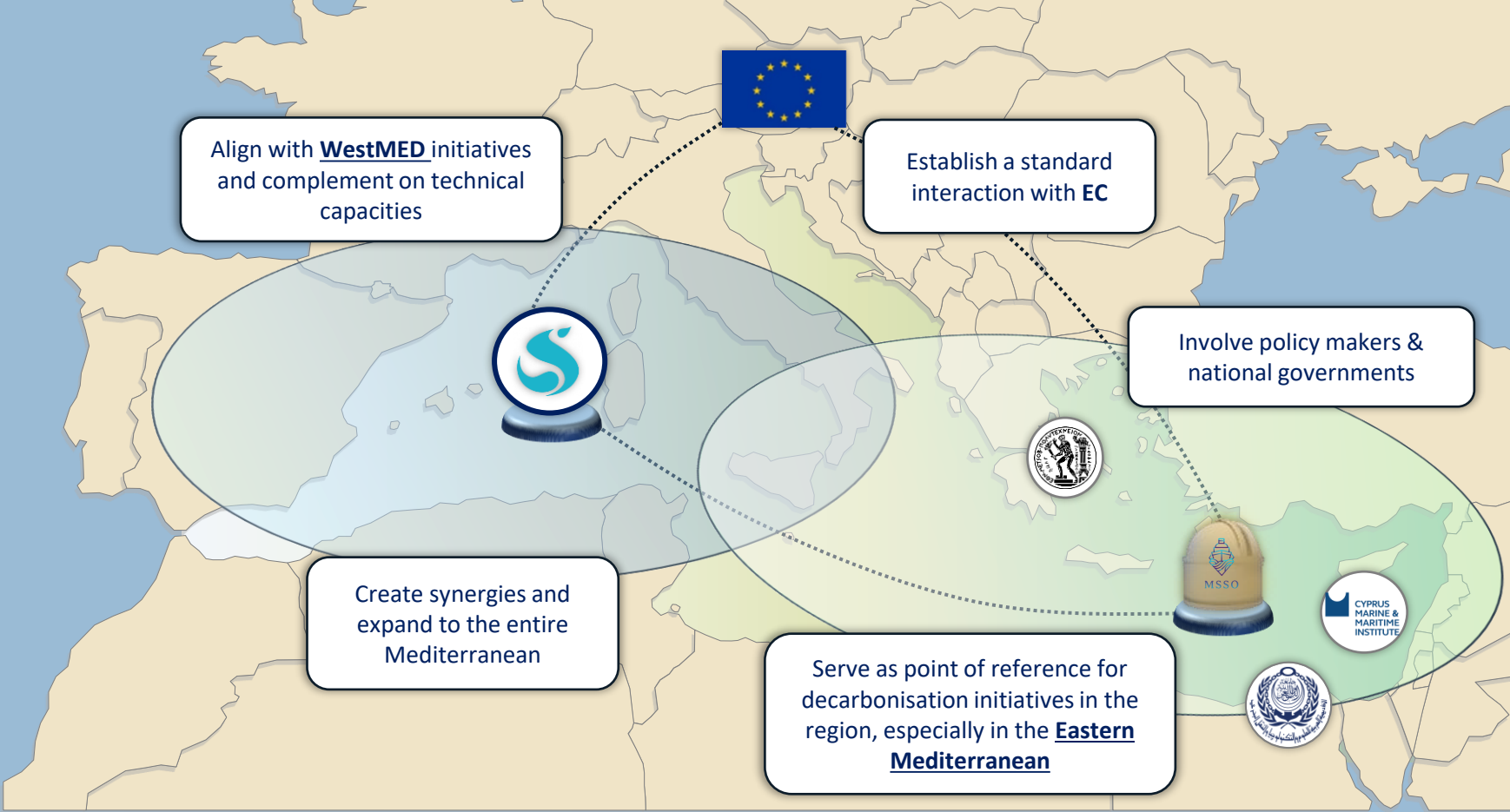
Especially for the eastern Mediterranean, where there is a **lack of policy and technical efforts and initiatives**, support actions are required.

The MSSO vision



Considering the need for a regional approach, while also acknowledging the weak efforts in the eastern Mediterranean, in conjunction with the WestMED initiative priorities and activities, the MSSO will serve as a **decarbonisation hub focusing on eastern and wider Mediterranean region.**





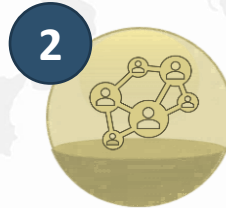
GreenMED: the birth of MSSO



GreenMED is a regionally oriented project that aims at formulating the MSSO as a decarbonisation hub, which will foster green shipping prospects in the Mediterranean Sea and **support its early development in terms of network and knowledge capacity building.**



Observatory
Formulating MSSO



Community building
Developing a community of stakeholders and experts



Knowledge basis
Building the knowledge basis and provide insights to users



101124925
EMFAF GA NO.



926,085
TOTAL BUDGET



740,868
EU CONTRIBUTION



24+3
MONTHS



5
PARTNERS



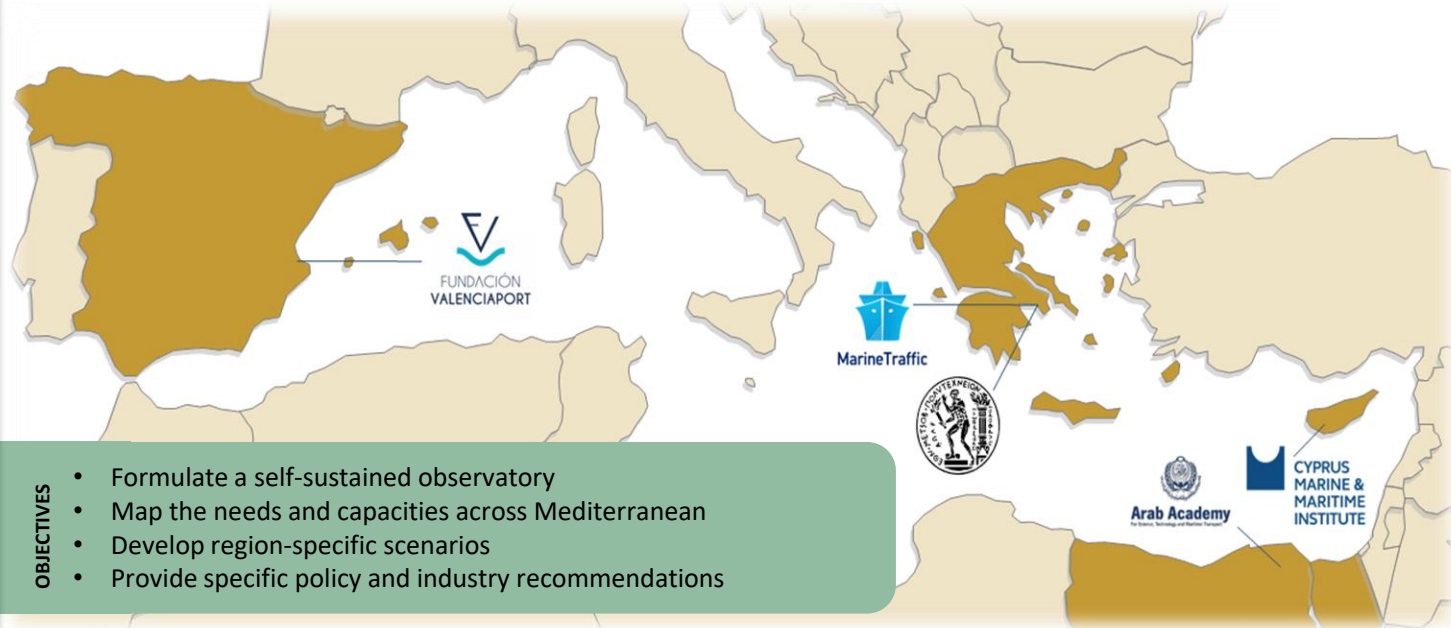
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MED COUNTRIES



GreenMED: the project

Green Shipping Pathways

Towards a Clean Energy Transition in the Mediterranean



OBJECTIVES

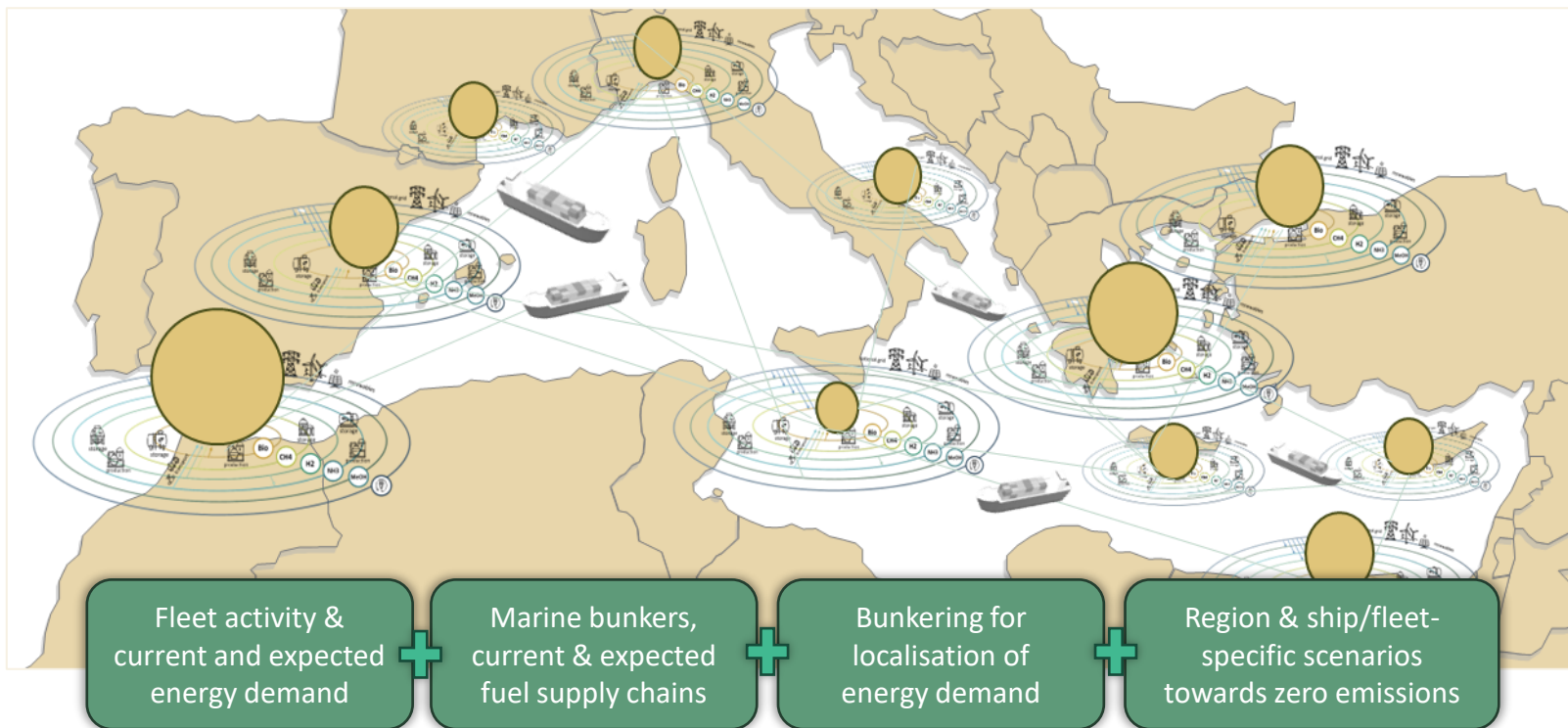
- Formulate a self-sustained observatory
- Map the needs and capacities across Mediterranean
- Develop region-specific scenarios
- Provide specific policy and industry recommendations

What GreenMED offers...

...through its deliverables & outputs



Final scope & content



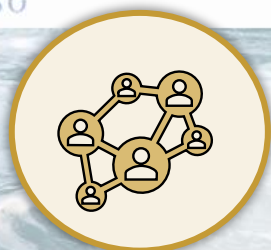
The MSSO website & platform



GreenMED

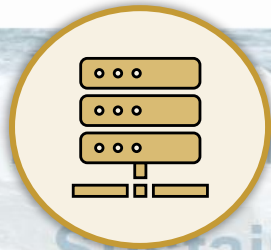
MSSO TOOL

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Network

Members & users supported by MSSO; will also support its data enrichment and sustainability, while driving its further development.



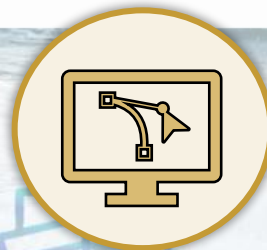
Database

Data compiled during GreenMED, and beyond, for supporting the MSSO tools; available through Power BI.



Energy Demand

Explore regional energy demand and projections for future supply chains, facilitating gap identification; available through an interactive map.



Pre-feasibility

High-level scenario assessment, providing recommendations for policy making and informed-investment decisions




News & Updates

Continuously updated news, provided by the stakeholder network and industry/policy developments.


Energy demand view & pre-feasibility assessment





Pre-feasibility Calculator

Alternative fuel feasibility analysis for maritime routes



Home

Data exploration

Fuel Demand Forecast

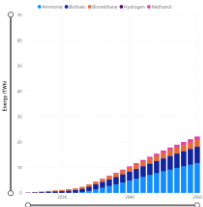
Energy demand

Pre-feasibility

Reset View

Piraeus

Country: Greece
UN/LOCODE: GRPIR
TEN-T: Core
Port Calls: 14290
STS operations: 4040
FO quantity: 619.68 kt
DO quantity: 224.57 kt
LCF infrastructure: -
LCF production: -



Fuel Feasibility Calculator

1. Route Selection

Departure Port: Piraeus (GRPIR) - Greece

Destination Port: Valencia (ESVLC)

Distance: 1447.34 nm

2. Ship Specifications

IMO Type: Container

Ship Capacity (DWT/TEU): 5500


Capacity Category: 5.000-7.999 (5.000 - 7.999)

Service Speed: 24.30 knots

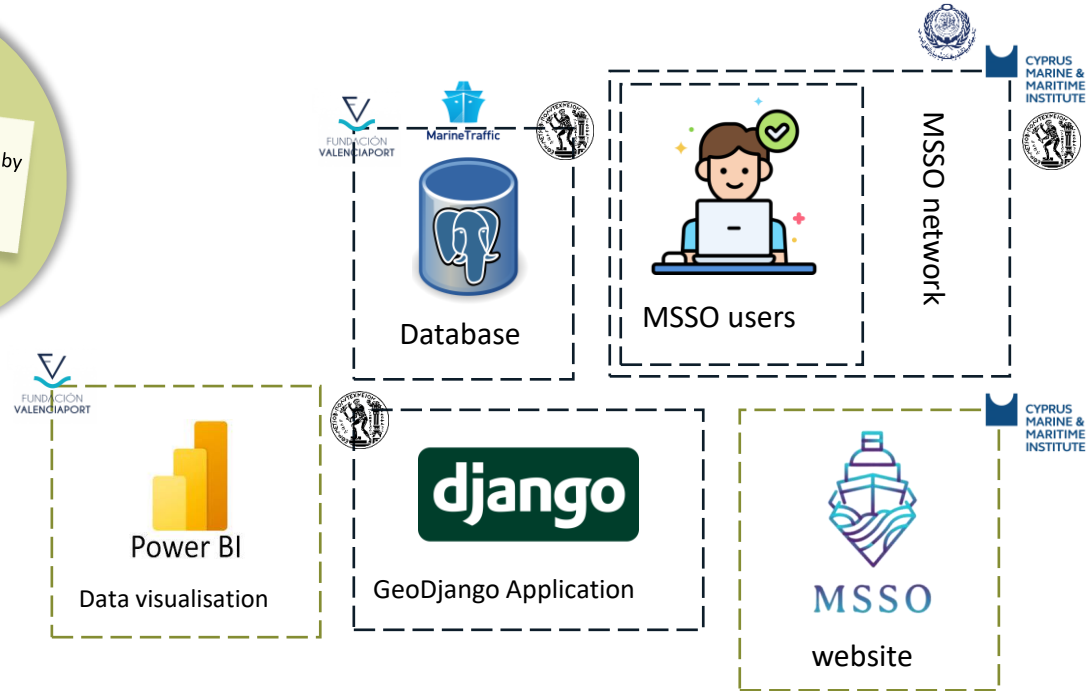
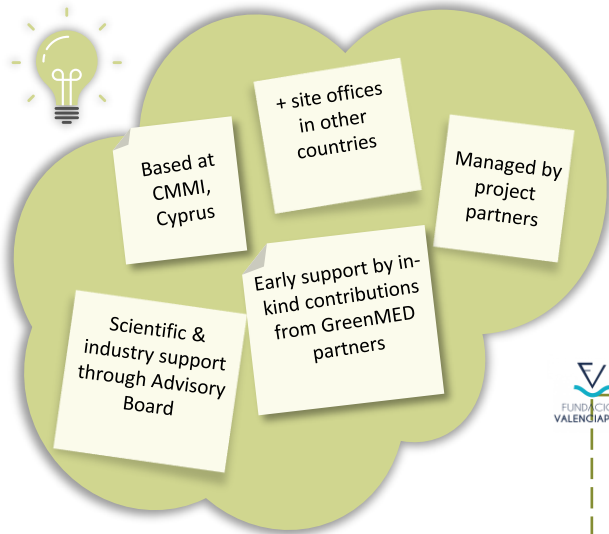
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The MSSO platform is supported by European Climate, Infrastructure and Environment Executive Agency (CINEA), in the context of the grant agreement No. 101124925.



MSSO sustainability



Take-away messages: Key MSSO features



**One-stop access point
for data and
information** about both
ships' energy demand
and regional fuels
supply chains

(now)

**Minimum-cost,
high-level scenario
exploration and
benchmark analysis** of
decarbonisation
options/measures
(pre-feasibility)

**On-demand detailed
scenario assessment**
of selected
decarbonisation
options/measures
(feasibility)

(beyond GreenMED)



MSSO



Thank you for your attention!

Explore:



The MSSO
website



The MSSO
platform



The project has received funding from the European Maritime, Fisheries and Aquaculture Fund (EMFAF) under grant agreement No. 101124925



www.cmmi.blue/greenmed/



www.mssso.blue/



GreenMED project