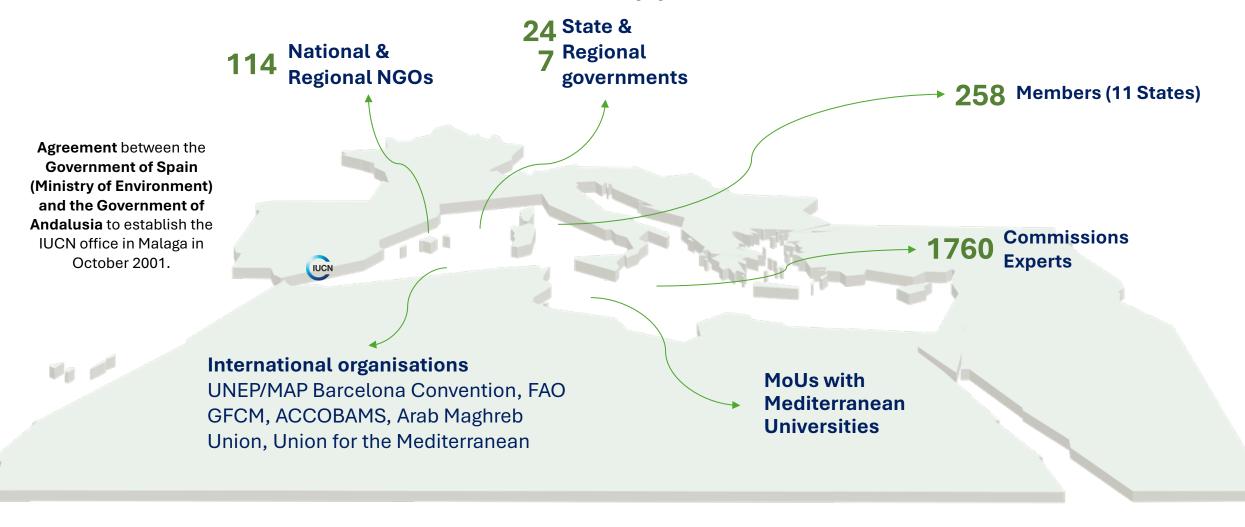


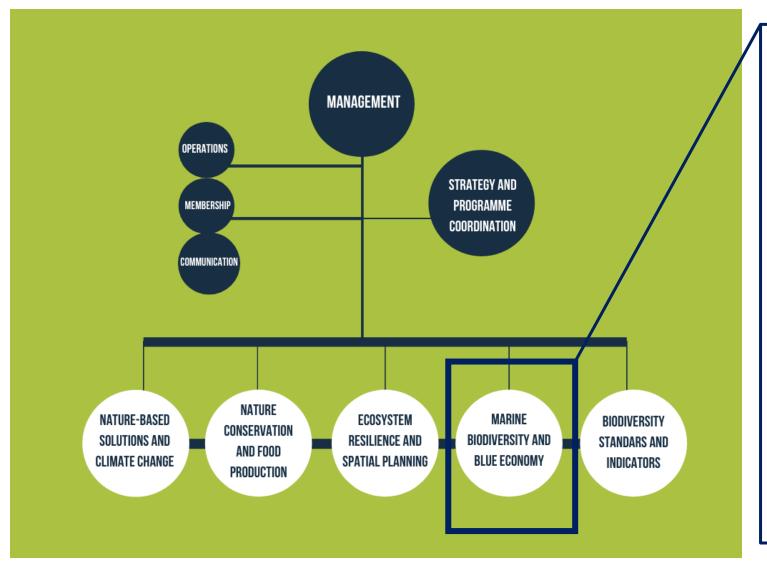
# Posidonia in the Mediterranean:

An overview of IUCN-Med's initiatives in the region

# IUCN in the Mediterranean: Our approach



# **IUCN** in the Mediterranean: Our approach

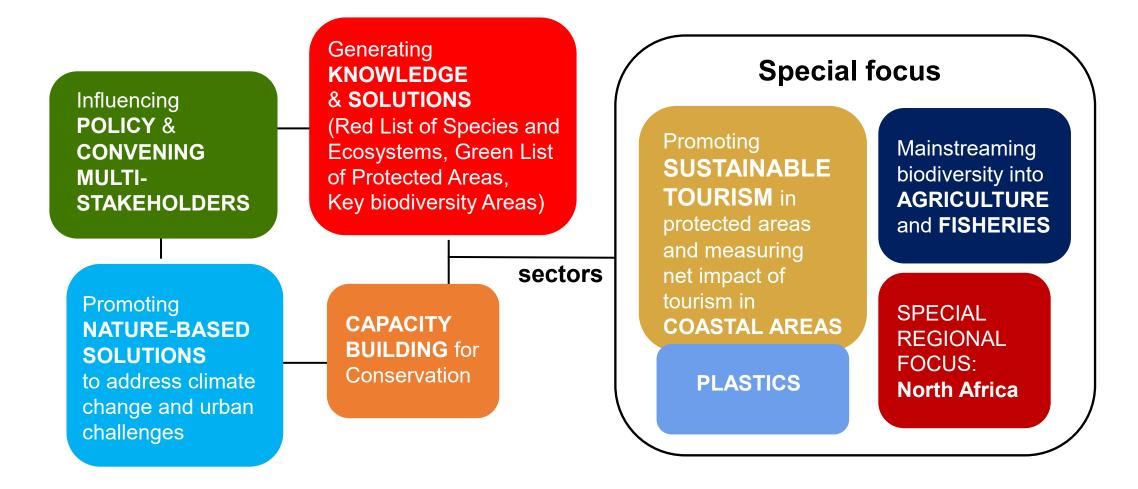


# Marine Biodiversity and Blue Economy strategic line

- Blue Carbon
- Posidonia oceanica
- Marine ecosystems
- MPAs & OECMS
- Ecosystems and species
  - Mediterranean Monk Seal
  - Pinna nobilis
- Marine pollution: Plastics
- Governance and Polices

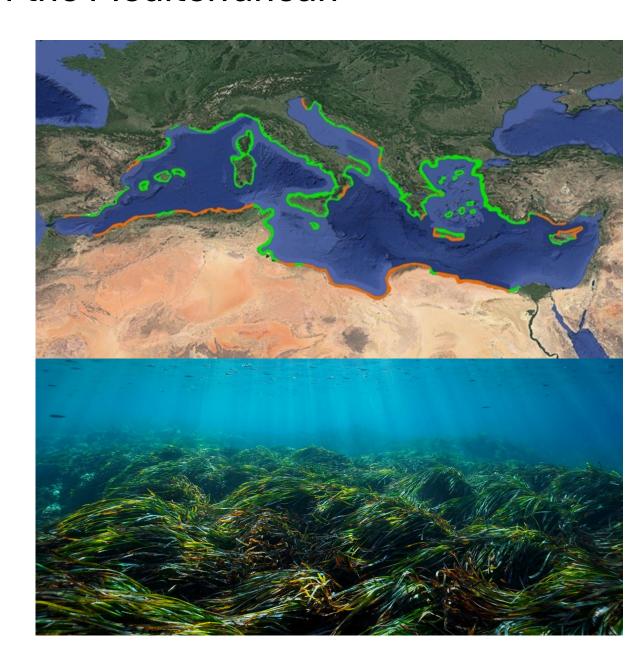
# IUCN in the Mediterranean: Our approach





### Posidonia oceanica: The Amazon of the Mediterranean

- Endemic to the Mediterranean basin
- Dense and extensive meadows up to depths of 40-45m
- Slow growth rate of only a few cm/year
- Distribution throughout the entire Mediterranean basin
- High carbon storage capacity, particularly over the long term
- Main threats: Anchoring and recreational boating, coastal development (beach nourishment), pollution and contamination, plastics and marine debris, invasive species, climate change effects (e.g. temperature rise)



#### Where it started: LIFE+ POSIDONIA ANDALUCIA (2011-2016)

#### Objective: Conservation of Posidonia oceanica meadows on the coast of Andalusia, Spain

- Halt the loss of this key ecosystem on the Andalusian Mediterranean coasts
- Ensure long-term conservation through applied protective measures and informing coastal communities of the importance of seagrass meadows for their quality of life and sustainable development.



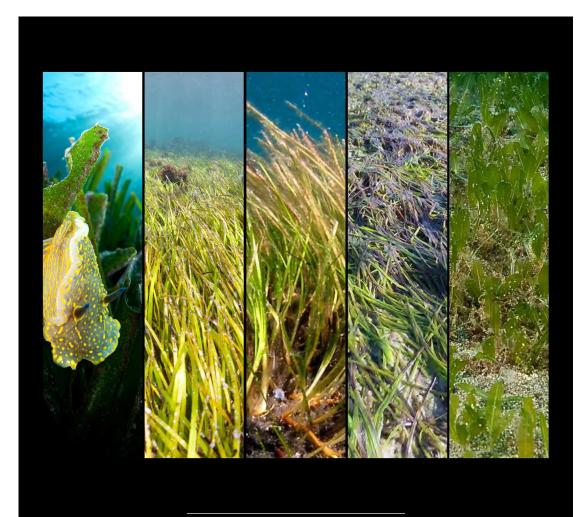


#### Results:

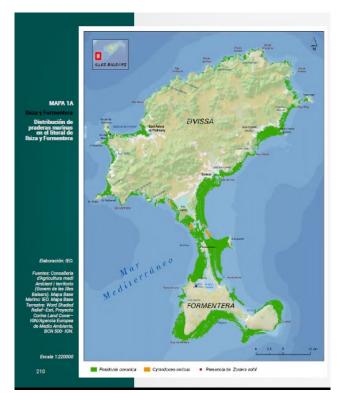
- Evaluation of state of Posidonia meadows along the Andalusian coastline
- Detailed mapping of existing meadows.
- Monitoring plan developed to allow early detection of the degradation of these ecosystems.







ATLAS
de las praderas marinas
de España





Collective work with over 89 institutions to present current and historical seagrass distributions, pressures and threats, conservation status, values and future work for each region in Spain (2016).



(LIFE2014/CCM/ES000957)

#### **Blue Carbon in Andalusia**

The importance of its conservation to reach climate change objetives.

http://www.life-bluenatura.eu/

facebook//Twitter//Instagram//Youtube: @lifebluenatura

QUANTIFYING CARBON
POOLS AND
SEQUESTRATION RATES:
MARINE
PHANEROGAMS AND
TIDAL MUDFLATS



ANALYSING THEIR
EVOLUTION IN THE
UPCOMING DECADES:
EVALUATION OF
MITIGATION
SERVICES

EXPLORING AND PROMOTING
INITIATIVES FOR FINANCING BLUE
CARBON HABITAT CONSERVATION
PROJECTS: CARBON OFFSET
MARKETS

CREATE THE NECESSARY
INSTRUMENTS:
VERIFICATION
STANDARD, PROJECT
CATALOGUE, ETC.

TRAINING,
DISSEMINATION
AND NETWORKING.
PUBLIC AND
PRIVATE SECTOR



#### QUANTIFYING TO PREPARE THE INVENTORY OF ANDALUCIA BLUE CARBON



#### Strong science sampling design

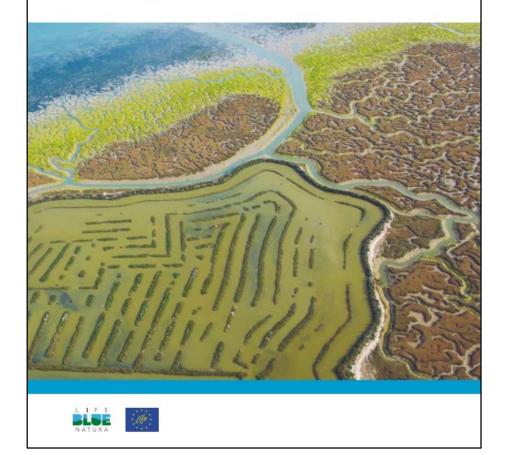
11 sites, 50 stations
160 seagrass and soil marsh cores and aboveground samples
20 variables analyzed
In more than 7000 soil samples

#### Cartography of the wetlands and other seagrasses

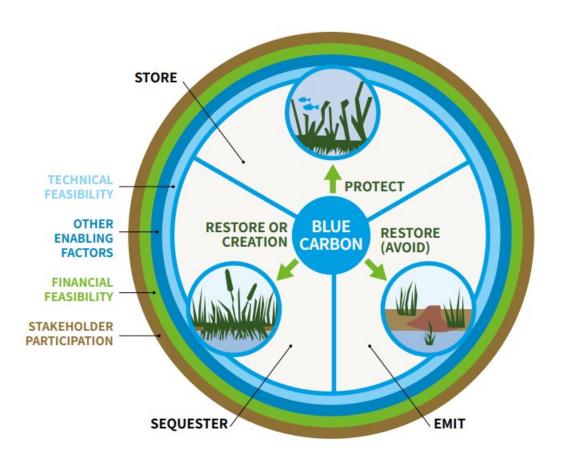
- Definition and prioritization of criteria for the definition of BC projects and selection of specific criteria for wetlands and Posidonia
- Definition of projects and prioritization



Manual for the Creation of Blue Carbon Projects in Europe and the Mediterranean



#### **PLANNING A BLUE CARBON PROJECT**



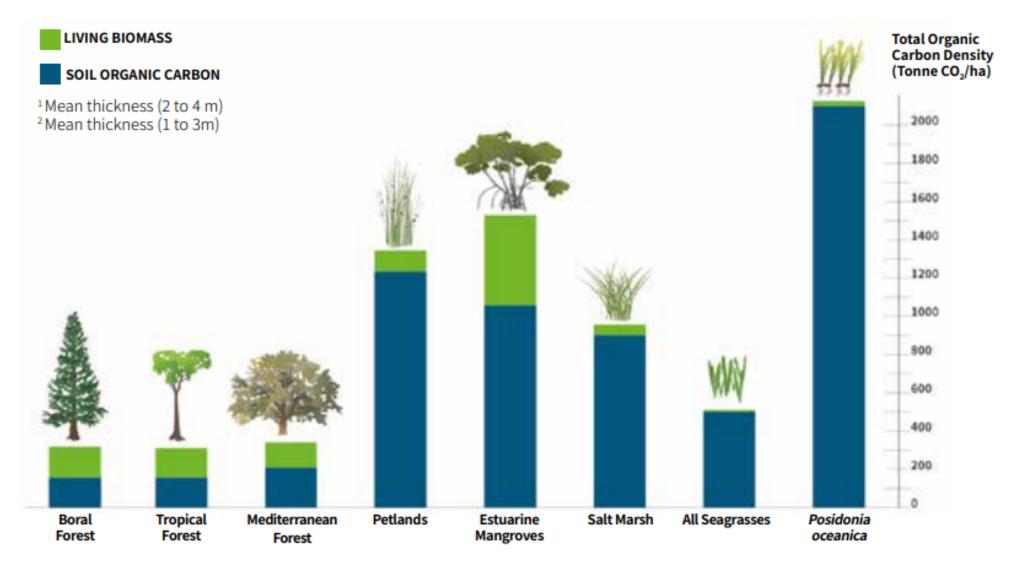


Figure 5: Comparison of soil C<sub>org</sub> storage in the top metre of the soil with total ecosystem C<sub>org</sub> storage for major ecosystem types. Here, the seagrass *Posidonia oceanica* is a unique seagrass in terms of the quantity of organic carbon that can be stored in its sediments and matte. Soil Data: Top meter sediment [12, 111, 112, 113].

## Solutions for reducing the risk of coastal erosion

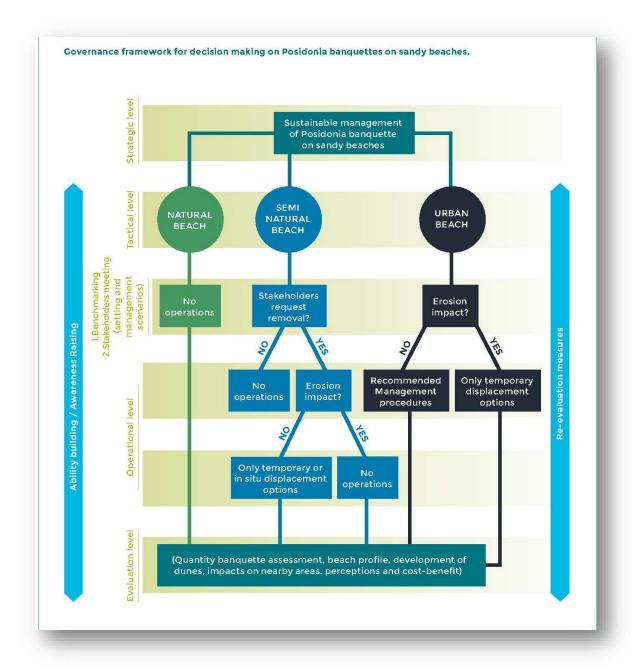




### Main objectives:

- Analyse management practices in Mediterranean coastal areas with Posidonia oceanica
- Provide a synthesis of socio-economic assessment of ecosystem services
- Integrate and adapt tools for sustainable management of beach-dune systems
- Develop a set of best practices for a holistic and integrated approach to management
- Propose a governance model and common strategy for the management of beach-dune systems in Natura2000 marine areas and other coastal protected areas.





# Governance framework for decision-making regarding Posidonia banquettes



Governance and management of Mediterranean Posidonia beach-dune

systems (2019-2022)

Implement a framework for decision-making regarding Posidonia baqnuettes

Provide a better integration of planning tools to be incorporated into coastal policy planning and management.



Increase stakeholder awareness and influence perceptions of "Mediterranean beaches"



### What we achieved



Knowledge transfer

**Toolbox** 

**Policy** recommendations

Action framework plans

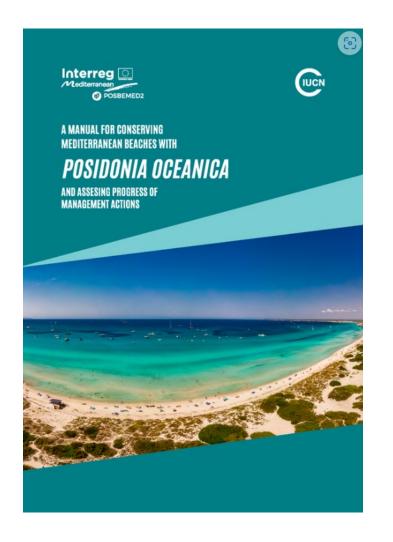
Joint charter of commitments

Improve stakeholders' knowledge and capacities

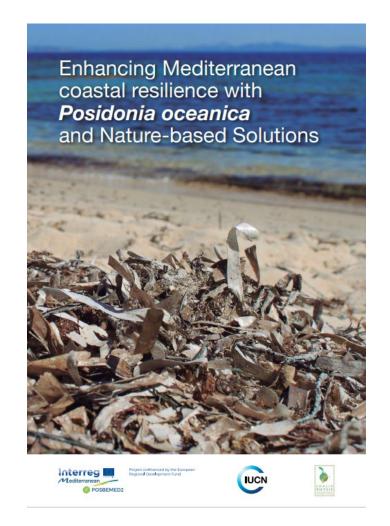
Transferable management methods in the Mediterranean

Legislative framework for sustainable management practices Improve
governance,
management
measures and the
overall resilience of
Posidonia coasts

Stable and long-term collaboration to promote sustainable practices beyond the project





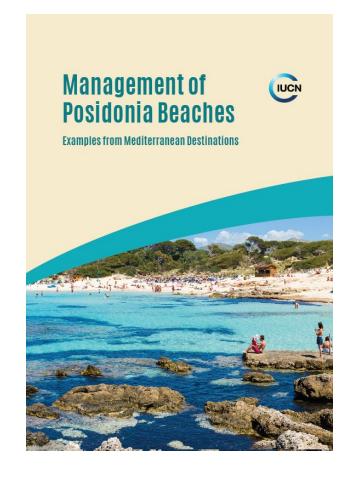


# Valorising natural Mediterranean beaches as a tourism asset (2022-2023)

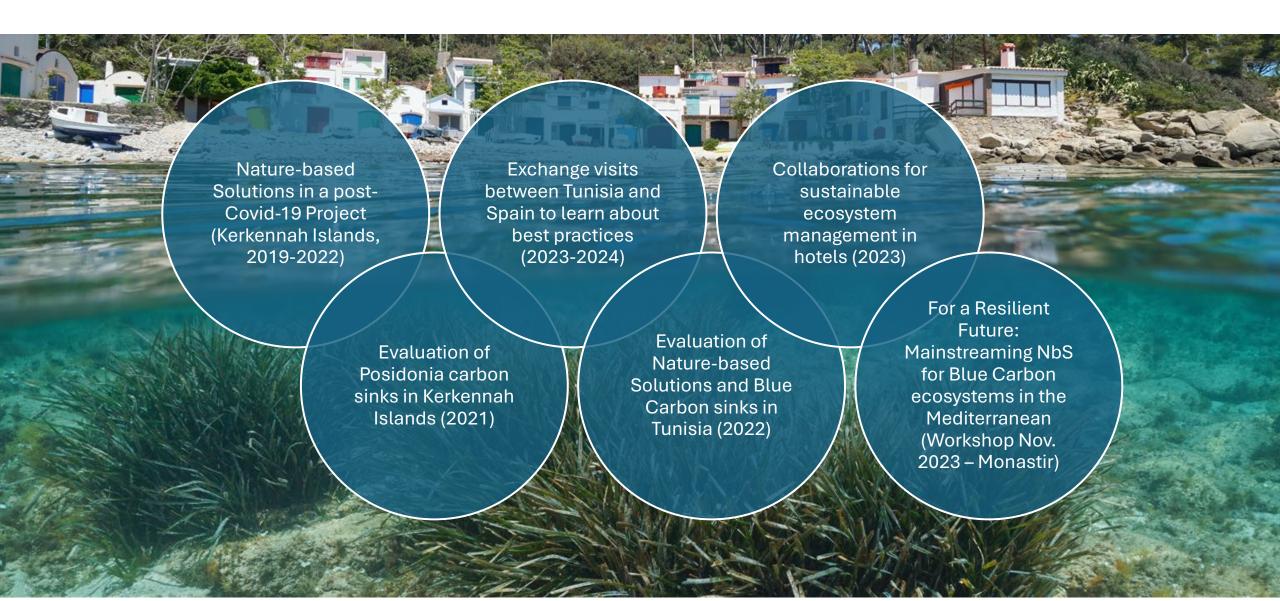
- Engaging with the tourism sector (destination managers, beach managers, regional initiatives) to highlight the unique value of Mediterranean Posidonia beaches as a natural asset
- Launch of collaboration for Ecosystem management in hotels (Iberostar Djerba, Tunisia)
- Capacity building:
  - Mediterranean-wide regional webinar (June 2023)
  - In-person workshop in Djerba, Tunisia (November 2023)



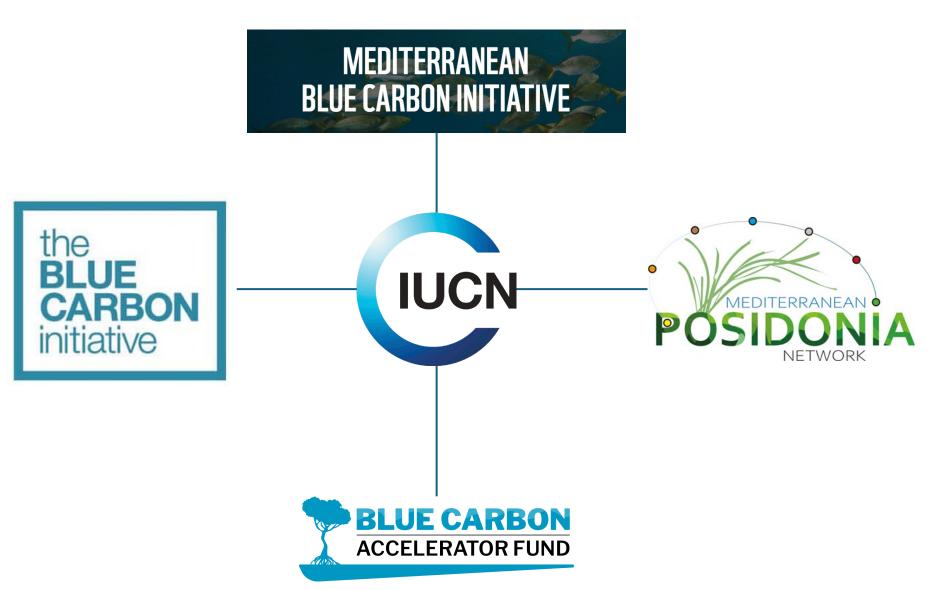




# Filling data gaps in the southern Mediterranean: Case Tunisia



# Supporting regional and international initiatives





# Blue Carbon Strategy for the Mediterranean

- Regional (Mediterranean) strategy
- Conservation of blue carbon ecosystems and supporting their adaptation to climate change, including passive restoration actions
- Builds on existing policy frameworks and planning and management strategies
- Embeds blue carbon as a key element of coastal and marine policy planning and management
- Promotes pathways for blue carbon investment,
   financial mechanisms and blue carbon markets
   and blue carbon certification schemes
- Progresses long-term blue carbon research and projects







#### POSIDONIA – A MEDITERRANEAN TREASURE UNDER THREAT

