

11 September 2018

Las Palmas de Gran Canaria Spain



Workshop Maritime Spatial Planning for Islands



# Experience from the Ionian Islands Pilot Project

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# ***“PAVING THE ROAD TO MARINE SPATIAL PLANNING IN THE MEDITERRANEAN”***

## **Project Aim and Objectives:**

- **Project carried out as a PAP/RAC activity**
- **Purpose of the project: to facilitate efforts of CPs to implement the marine provisions of the ICZM Protocol (& MSP Directive for EU-MS)**
- **Objectives of the Project: to identify and propose user-friendly methodologies and tools to decision makers, planners and stakeholders to be involved in the MSP process (planning & implementation) in the Mediterranean/interactions with stakeholders**
- **Case study: Greece - Ionian Islands**



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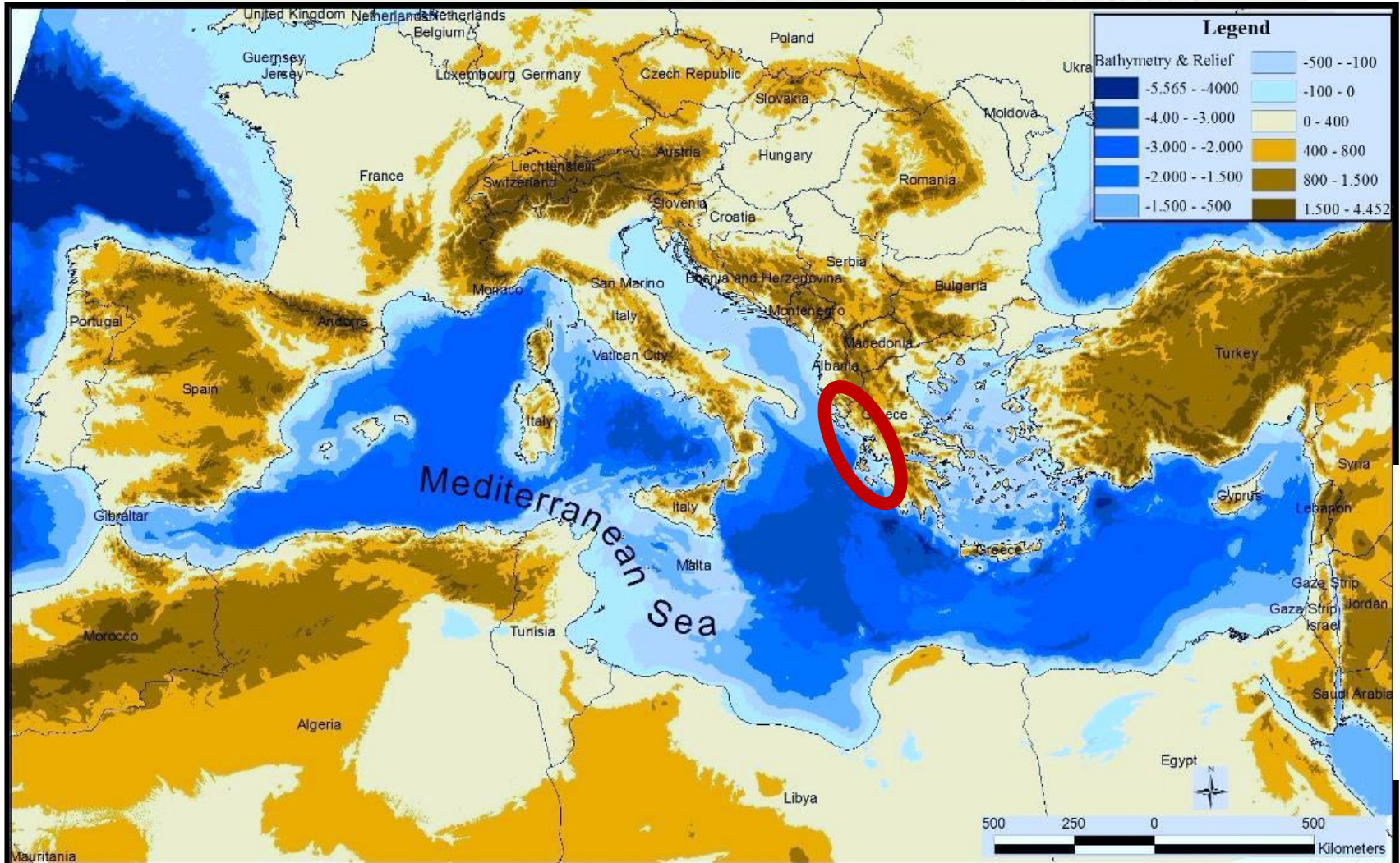
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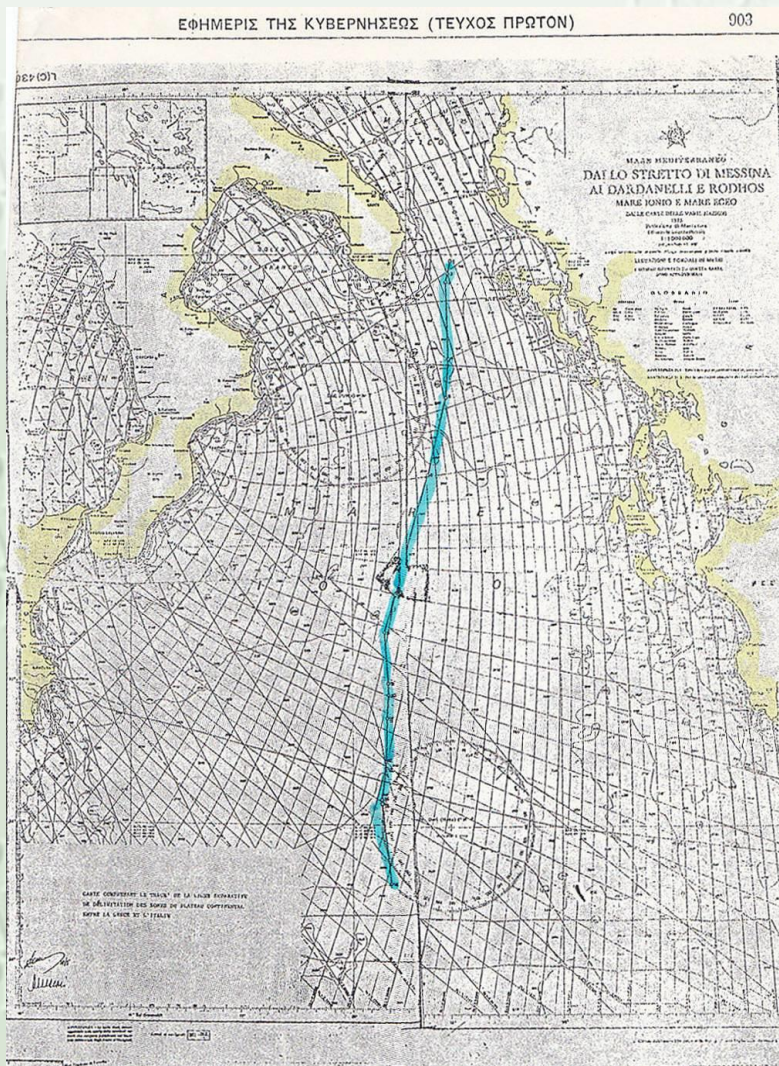
# Location of the case study area in the Mediterranean





# SELECTION CRITERIA

## (II) ECONOMIC AND POLITICAL CRITERIA

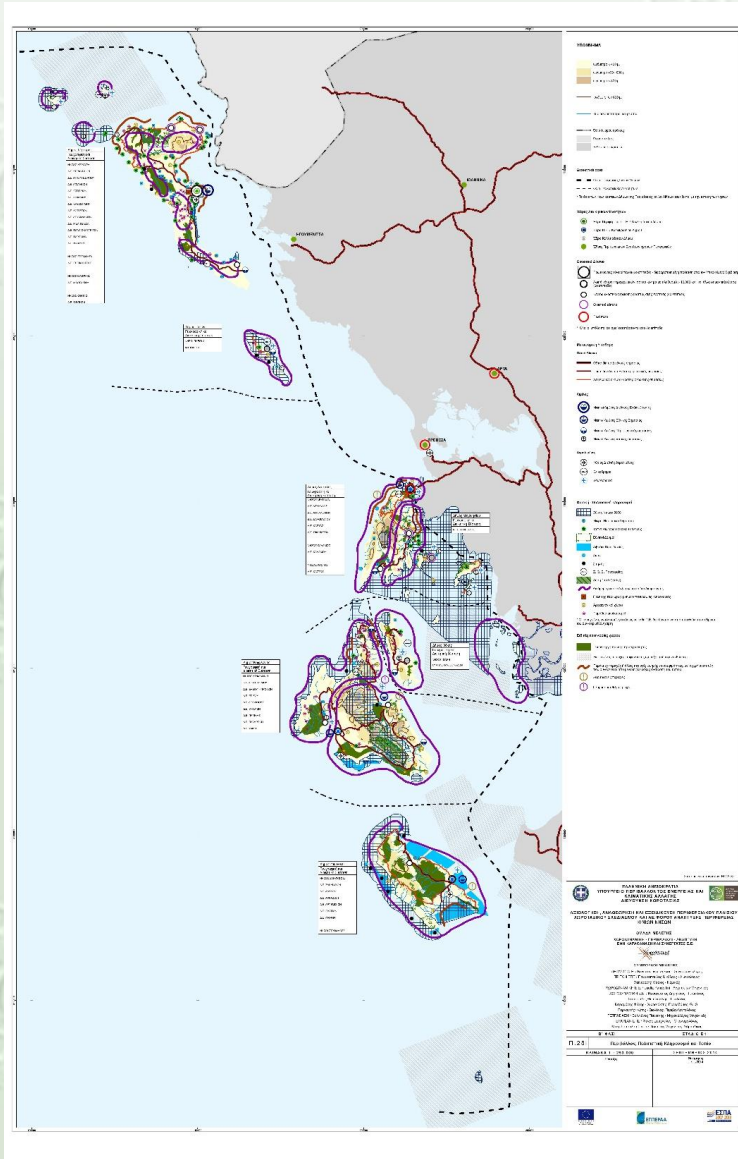


- Direct relation to the Adriatic Macro-Region, where numerous side projects are being elaborated, providing valuable experience and input to the M.S.P. Greece project
- Representativeness among other insular Greek Regions and average ranking in relation to the Regions of other Mediterranean countries
- Defined (since 1978) limits of continental shelf in the marine space between Greece and Italy

# SELECTION CRITERIA

## (III) SEA USES (EXISTING AND POTENTIAL)

- dense maritime system of transportation
- dense network of Aquacultures
- extensive fishery zones
- developed maritime/nautical and coastal tourism (cruise, yachting, diving etc)
- dense network of submarine cables and pipelines
- manifested interest for developing off-shore wind farms and for conducting hydrocarbons research



# CLARIFICATIONS

**MSP is an integrated process (not only zoning).**

**It comprises:**

- **Administrative/legal aspects (preparation)**
- **Vision / marine (& coastal) strategy**
- **Planning (& consultations) to reflect policies on marine space in a balanced way**
- **Implementation**
- **Monitoring**
- **Evaluation**
- **Feed back / adaptation of plans**



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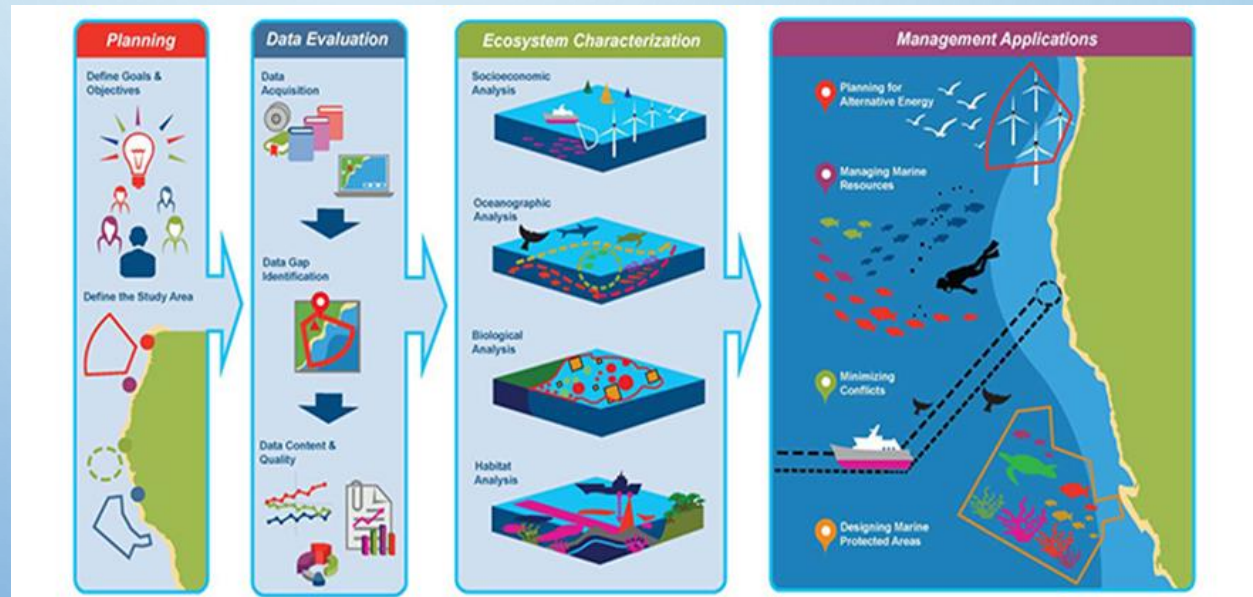
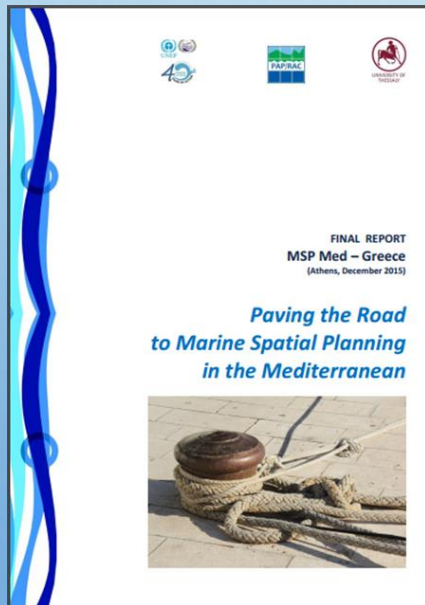
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# CLARIFICATIONS (2)

- MSP needed for the marine part of ICZM & EU commitment (Dir on MSP)
- MSP = Vehicle for Sustainable Blue Development, Regional/Territorial Cohesion, Environmental Protection and Cross-Border issues



# FOCUS THEME 1: GOVERNANCE

- Efforts for information, motivation, dialogue, trust, consultation, consensus → learning process
- Organised 2 meetings in Athens (mostly with central authorities & MAP), 3 meetings on 3 selected Ionian Islands (Corfu, Zakynthos and Ithaca), 3 Med & 2 EU meetings
- Mobilised/involved all major Ministries concerned, all Regional and Local Authorities, one Marine Park and more than 60 socio-economic stakeholders who filled in questionnaires
- → Importance of reliability, trust, continuity, mutual understanding, formal participation schemes, flexibility ...



## FOCUS THEME 2: METHODOLOGIES & TECHNICAL TOOLS

- Don't just copy existing ones but adapt to the Mediterranean (different conditions, resources,...)
- Focused mostly on:
  - I. Vulnerability Assessment
  - II. Compatibility tables & Indicators (& Multi-Uses)
  - III. Cumulative Impact Analysis
  - IV. Assessment of impacts of extreme phenomena
  - V. 3-D Mapping
  - VI. Integration of EcAp in MSP
  - VII. Land-Sea Interactions



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# I. VULNERABILITY ASSESSMENT

- **Not feasible to cover all marine areas immediately in all countries / reduce costs → put priorities / rapid assessment? (→ check-lists and matrixes)**
- **Vulnerability of marine areas is mostly related to habitat loss, erosion, environmental quality of waters, loss of fishing stocks, non-compatibility of uses (profit from EU experience & data)**
- **Knowledge of the vulnerability facilitates options of appropriate plans & measures**



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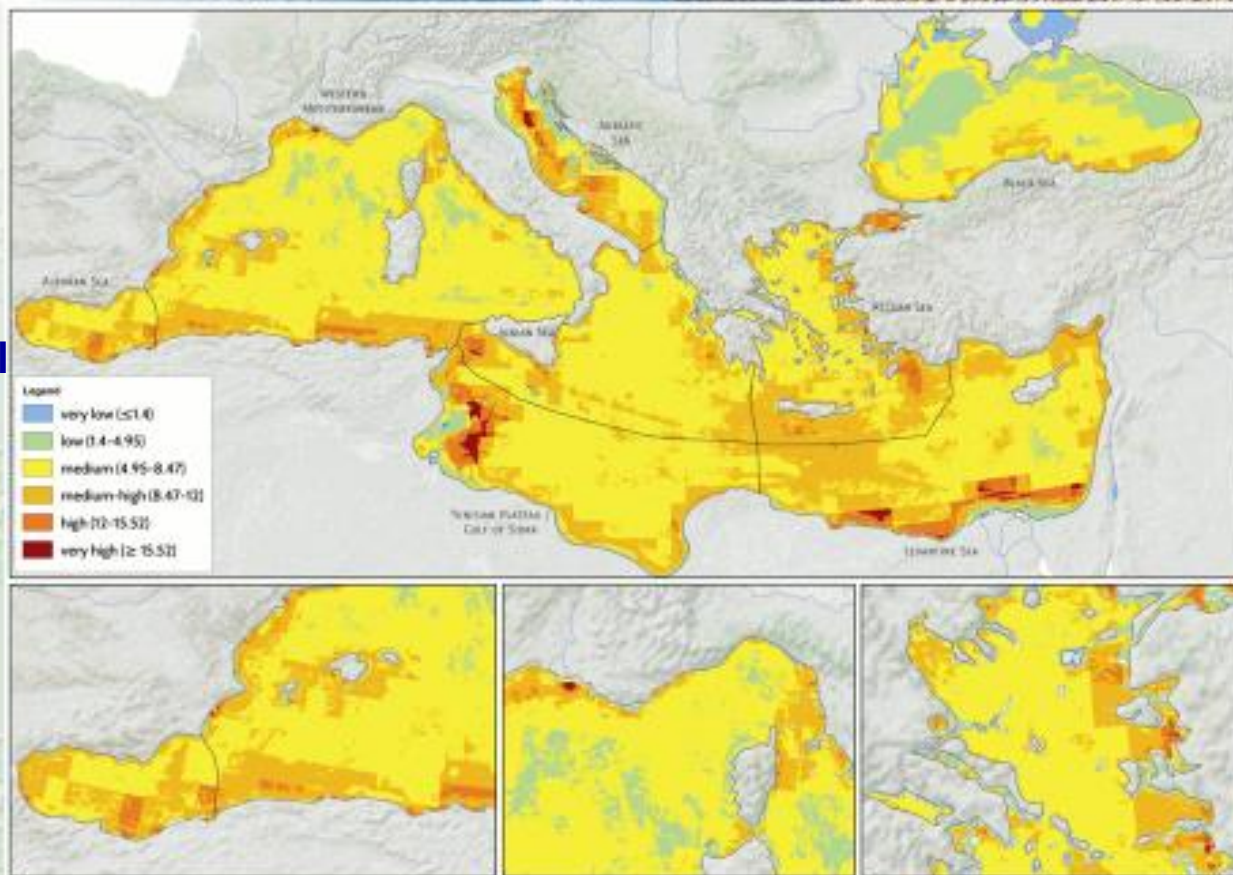


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## III.

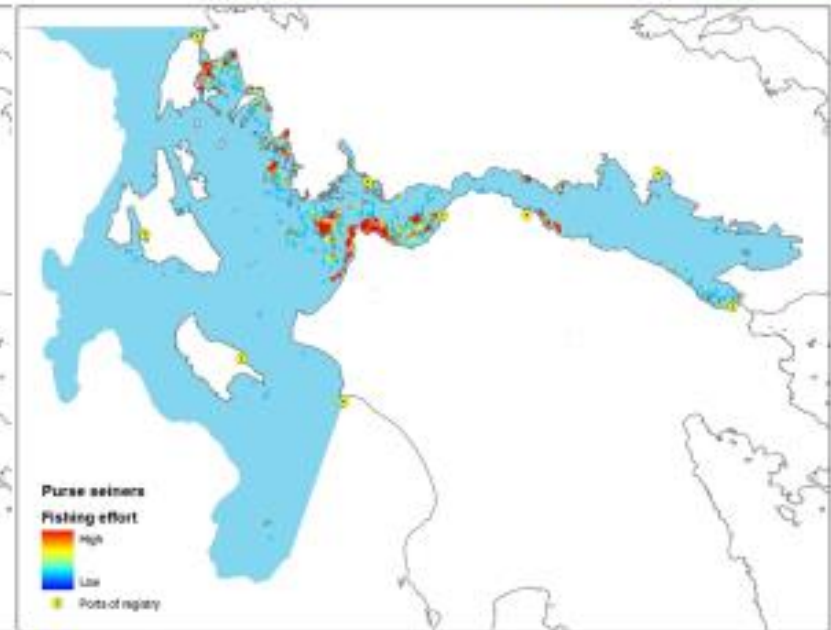
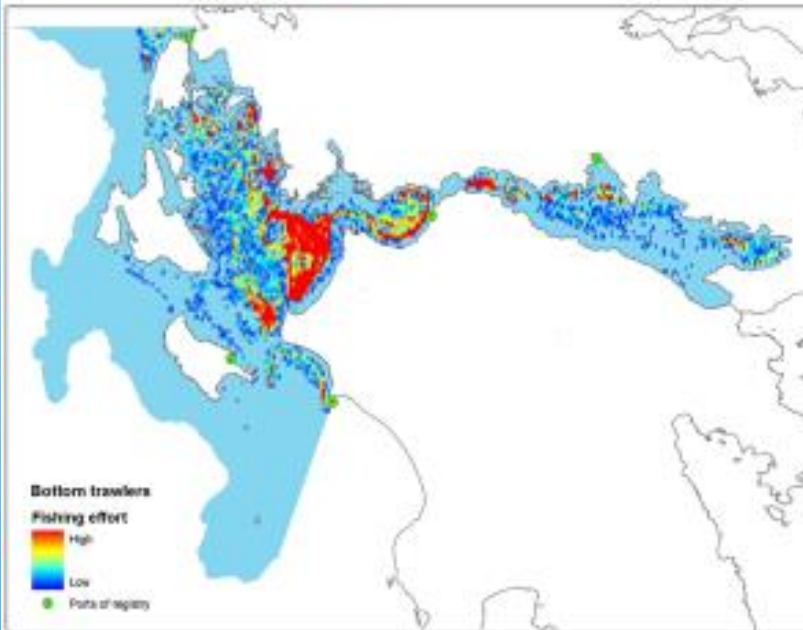
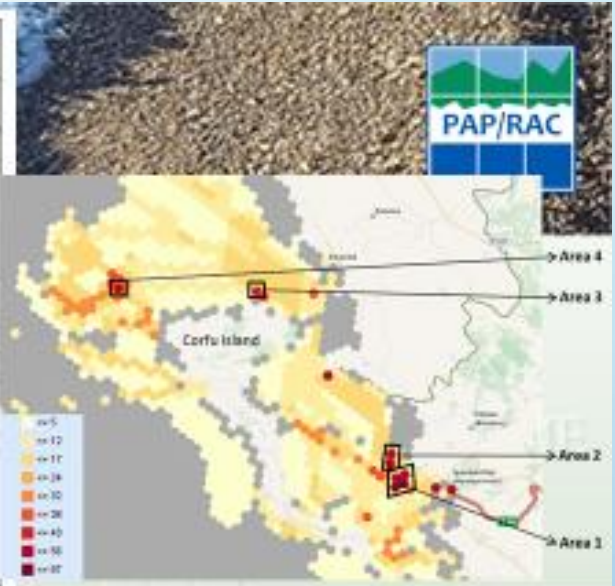
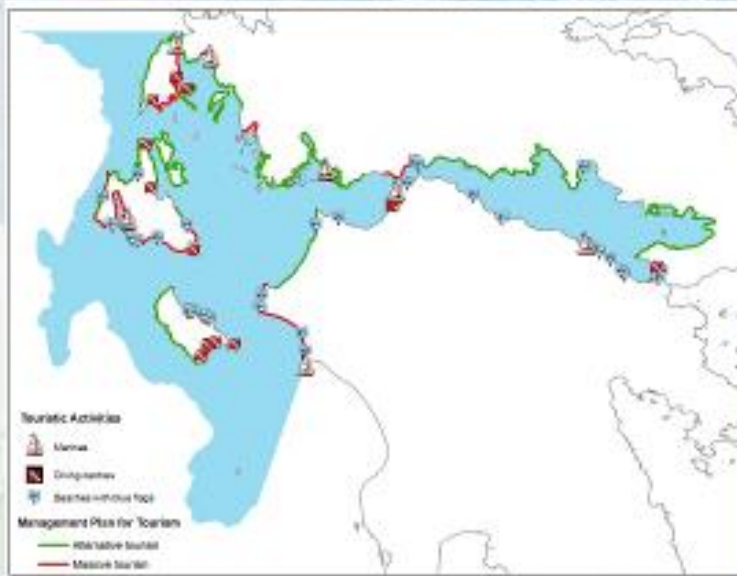
Very useful tool for assessment of impacts, but for the moment: indicative  
**Need of concrete local data**



Source: Michelli



# Mapping human activities/ conflict areas



# IV. SEA LEVEL RISE SCENARIOS (SAMI/CEPHALONIA ISLAND) (→ IMPORTANCE OF A SET-BACK ZONE)



Normal sea level



0.5 m sea level rise scenario

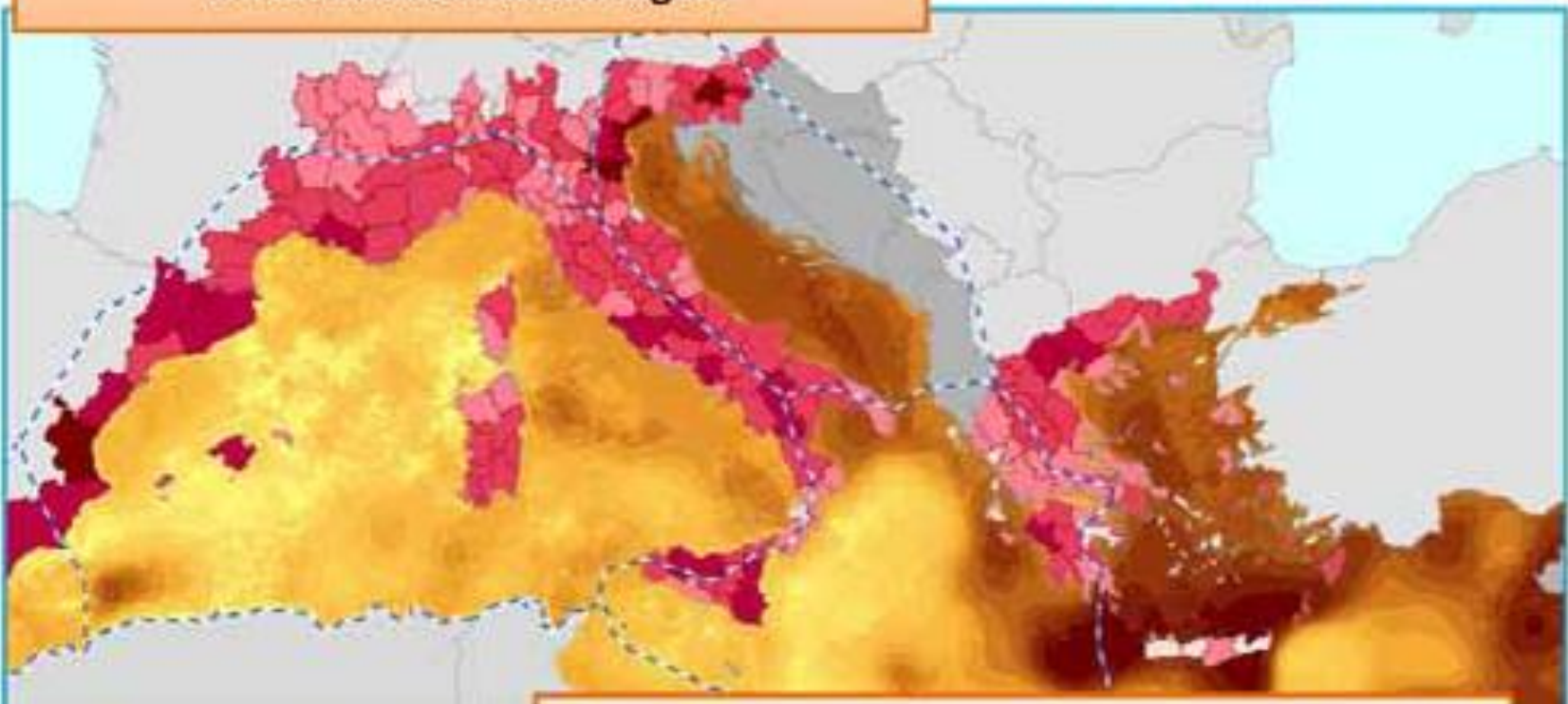


1 m sea level rise scenario



3 m sea level rise scenario

# Climate change would have adverse impacts in the Mediterranean region



**Sea level rise, recurrent droughts, salt water intrusions, increase of floods and soil erosion...**

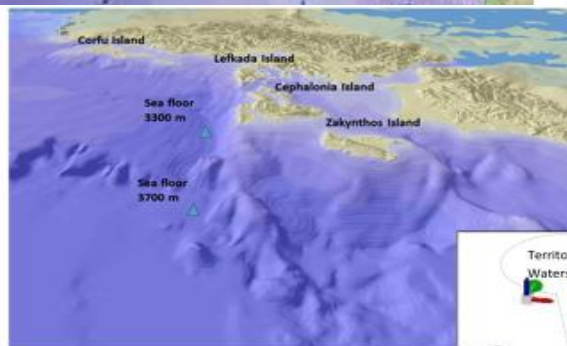
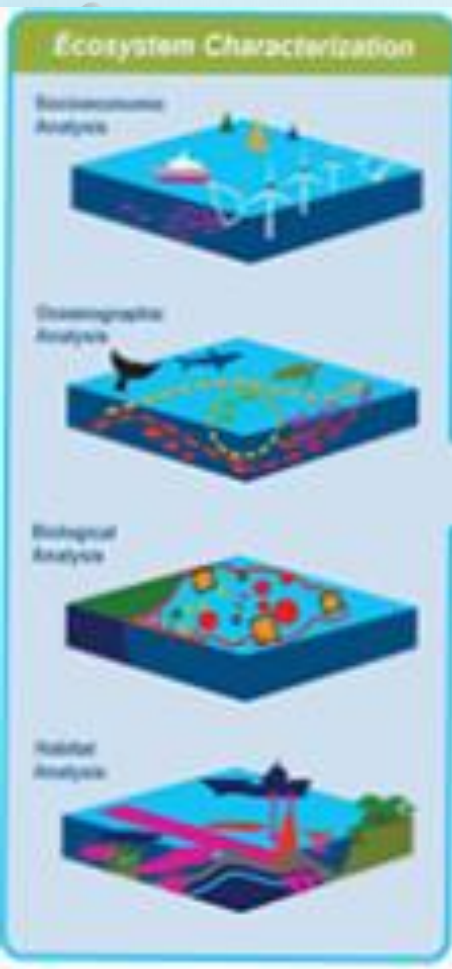
## Combined pressure of climate change



2000-2005 and 1965-1990), and sea level rise (SLR), which show the sea level rise trends in mm/year. The assessment of climate change pressure on coastal areas correspond to ESPON Climate indicator 'Aggregate impact of climate change on Europe's regions'

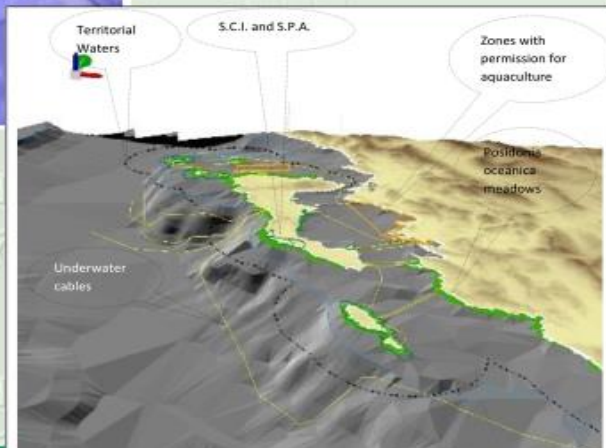
Source: Increase in Sea Surface Temperature (SST), NCEAS, 2008  
Trends in absolute sea level, CNES/ECOSIS/CLS, 1993-2013  
ESPON Climate, ESPON, 2011

# V. 3-D MAPPING



PRIORITY ACTIONS PROGRAMME

PRIORITY ACTIONS PROGRAMME



## VI. INTEGRATE ECAP IN MSP

1. Contribute to GES / link uses with descriptors & indicators, proper location of marine uses (planning criteria, regulated zones, ...)
2. Avoid incompatibility with protected areas (SPAMIs, NATURA 2000, ..., EBSAs ?), ensure corridors & buffer zones
3. Use ecological criteria for definition of geographical planning & management areas



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## VII. INTERACTIONS BETWEEN SEA/LAND (AND RESPECTIVE PLANS, MEASURES)

- Interactions due to nature (coastal erosion, sand removal, ...) / dynamic coastal zone
  - Interactions related to human activities (ports/navigation, land facilities/aquaculture, tourism/swimming areas-cruises, ...)
  - Interactions of coastal plans & MSP / & respective measures – ensure complementarity, synergies, integration
- ➔ Identify major links and actions needed per case, be aware/alert, provide coherence and complementarity of land/sea plans in same areas



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# CRITICAL POINTS – RECOMMENDATIONS

1. The competent national authority set out (since) and the consultation/decision process for MSP to start taking initiatives. Build trust & networks
2. Identify (through a “rapid assessment”) the vulnerable marine areas, which would need to have by priority Marine Spatial Plans (with emphasis on SPA/SPAMIs, NATURA 2000, Ecologically or Biologically Significant Marine Areas [EBSA] and/or those under pressure from [conflictual or not] marine uses)



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# CRITICAL POINTS – RECOMMENDATIONS (2)

3. Plan timely collection of necessary info for MSP, such as environmental data & bathymetry mapping (and side scanning where possible) at least up to the isobaths of 200 m in priority areas, as well as major oceanographic data (online and real time where possible) using buoys (prepare benthic maps etc)
4. Promote a coordinated system of relevant databanks per country (quality assurance, time series, compile scattered information, accessibility, link to EMODnet / EU & Virtual Knowledge Centre/IMP-MED & MAP db ...)
5. Integrate the EcAp in the MSP (GES, planning criteria, regulated zones, management units, transboundary aspects & EEZ, ...)

# CRITICAL POINTS – RECOMMENDATIONS (3)

6. Carry out pilot projects for the integration of MSP with ICZM (e.g., in new generation of CAMPs / combine with adaptation to impacts of extreme phenomena – Climate change, SLR, floods, ...) / apply EcAp + policies & measures beyond zoning
7. Prepare a GIS tool (preferably 3-D) for the entire Mediterranean, using also DG MARE Atlas, EMODnet. It should show all the available data and give the possibility to see impacts of alternative location options and would facilitate both people involved in online consultation and decision makers. Seek funding (from EU, GEF...) to this end.

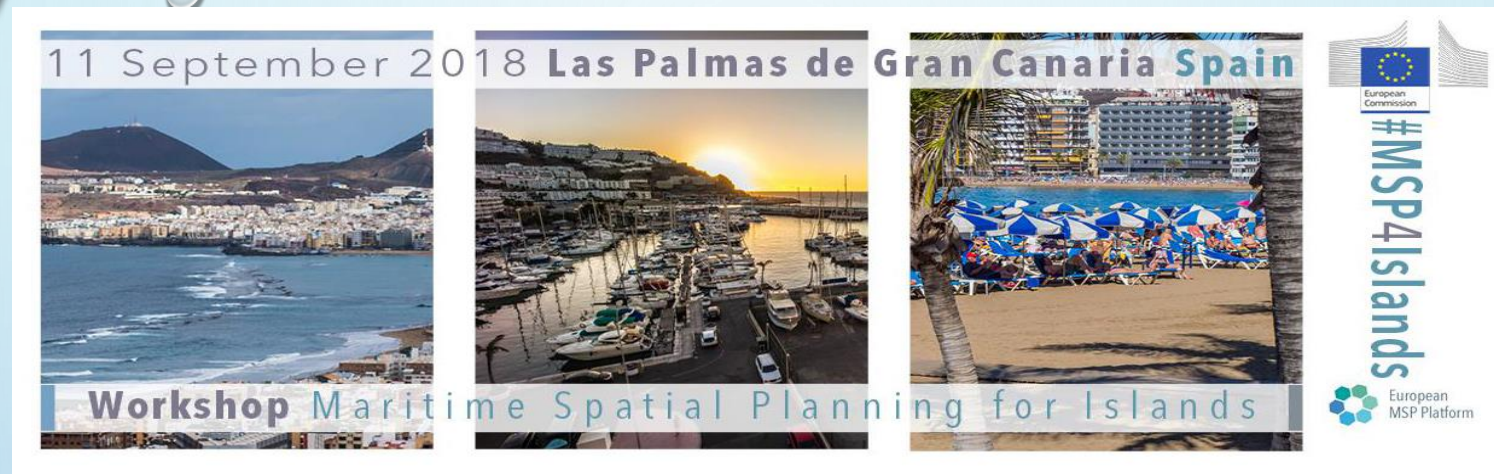


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***Gracias por su atencion / Thank you for your attention***



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*On behalf of the Core Team of the Project (Co-coordinator)*

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# Collaborating Partners

FUNDING / CONTEXT:



**LEADER PARTNER:**



UNIVERSITY OF THESSALY  
SCHOOL OF ENGINEERING  
DEPARTMENT OF PLANNING  
AND REGIONAL DEVELOPMENT

**COLLABORATING PARTNERS:**



MINISTRY OF  
RECONSTRUCTION  
OF PRODUCTION  
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& ENERGY



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