

Session 4a

State of the art of Marine Spatial Planning in LMEs

With the support of the:



Government Offices of Sweden

Julian Barbière, IOC-UNESCO, Chair
Emma Kelley, NOAA, Rapporteur

This session is organized with the support of the:



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Tack så mycket!
Thank you!



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Sverige

Elements of MSP and modalities of its implementation in LME transboundary context

Julian Barbière

Head, Marine Policy and Regional Coordination Section
IOC-UNESCO

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What is MSP?

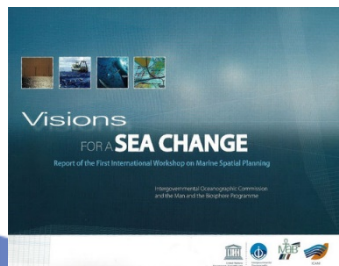
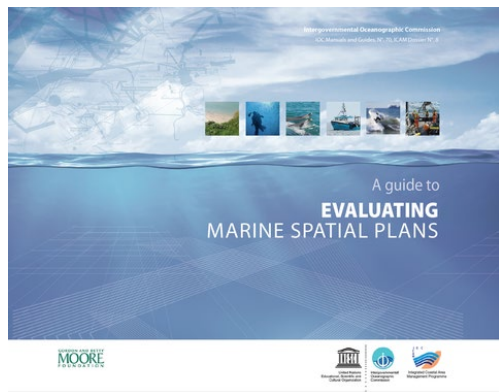
“The public process of analyzing and allocating the spatial and temporal distribution of human activities to achieve ecological, economic, and social objectives that are usually specified through a political process.”

“Visions for a Sea Change”
UNESCO/IOC



Credit:
Ministry of Infrastructure & Environment
The Netherlands

MSP step by step



STEP 1 Establishing Authority

STEP 2 Obtaining Financial Support

STEP 3 Organizing the MSP Process

STEP 4 Engaging Stakeholders

STEP 5 Analyzing Existing Conditions

STEP 6 Analyzing Future Conditions

STEP 7 Developing the Plan

STEP 8 Implementing the Plan

STEP 9 Evaluating Performance

STEP 10 Adapting the Process



We all agree on MSP Benefits...

- **Reduce conflicts** between sectors and create synergies between different activities.
- **Encourage investment** – by instilling predictability, transparency and clearer rules.
- **Increase coordination** – between administrations in each country, through the use of a single instrument to balance the development of a range of maritime activities.
- **Increase cross-border cooperation** – between riverine countries, on cables, pipelines, shipping lanes, wind installations, etc.
- **Protect the environment** – through early identification of impact and opportunities for multiple use of space.

MSP as a tool to operationalise the Ecosystem-based approach

- 1. Aligning with ecosystem boundaries;**
- 2. Managing for multiple objectives/benefits;**
- 3. Considering cumulative impacts;**
- 4. Using best-available science and information;**
- 5. Applying the precautionary approach to deal with uncertainty; and**
- 6. Managing adaptively.**

Ecosystem-based tool – but a national competence !

Marine Spatial Planning 2005

A world map with a light blue background. The landmasses are outlined in white. Overlaid on the map are numerous white circles of varying sizes, representing Exclusive Economic Zones (EEZs) around the world. The circles are most concentrated around the coastlines of North America, Europe, and Africa.

9

countries
had MSP
Initiatives

5

countries
had approved
marine spatial
plans

0.3%

of surface area
of World's EEZs
covered by
government-
approved
MSP plans

2017 Status of Marine Spatial Planning

≈65

countries
have MSP
Initiatives

≈90

plans in various
stages of
planning and
implementation

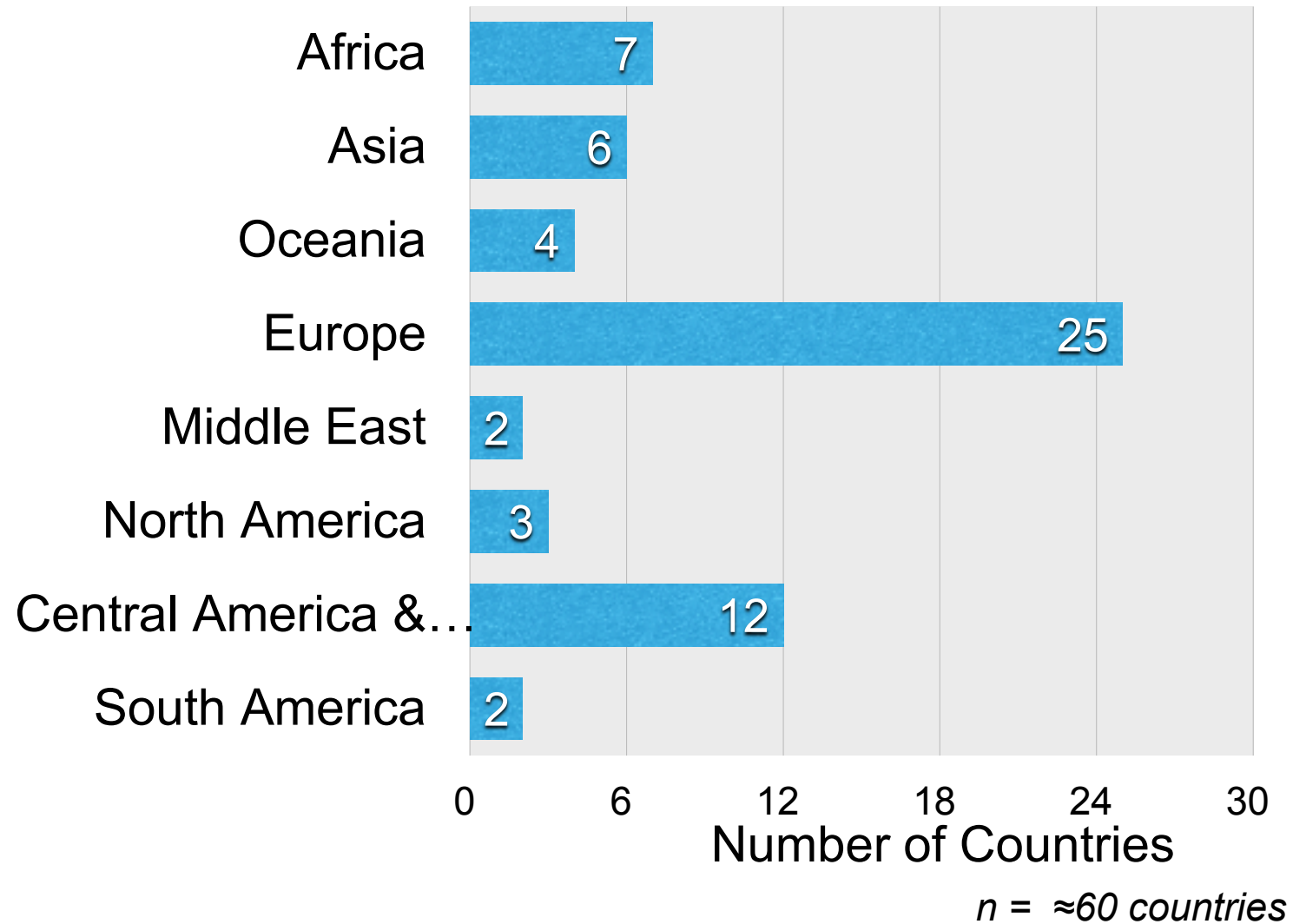
≈10%

of surface area
of World's EEZs
covered by
government-
approved
MSP plans today

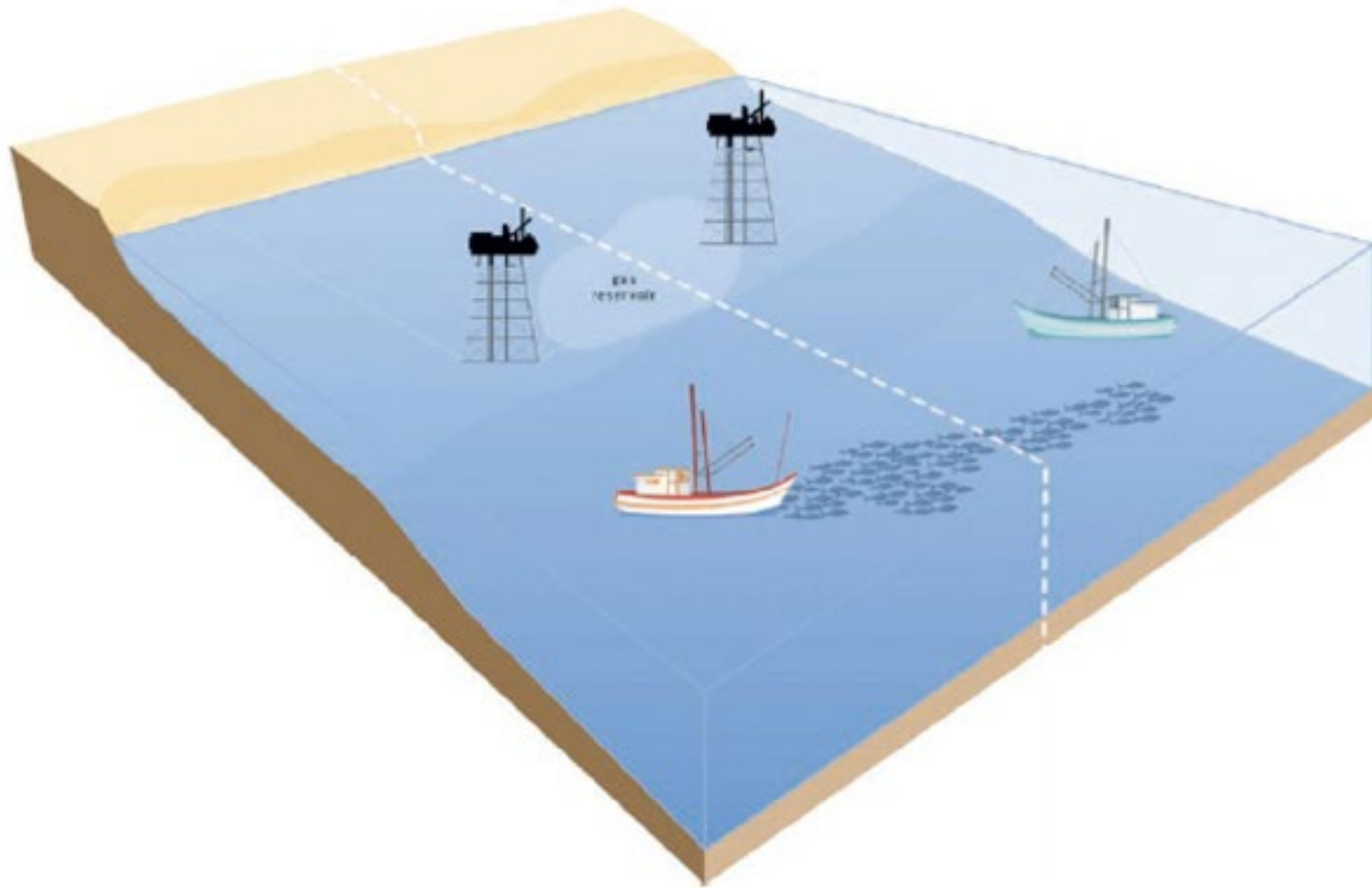
Status of MSP

- Few countries have legislation that explicitly authorises MSP
- Most MSP plans take about 3-4 years to complete
- Most countries rely on national government funding from general revenues
- Almost all MSP initiatives claim stakeholder engagement
- Most plans are advisory and strategic
- Often fishing not included, MPA through separate planning process
- Very few trans-boundary MSP examples exist in practice (mainly EU)

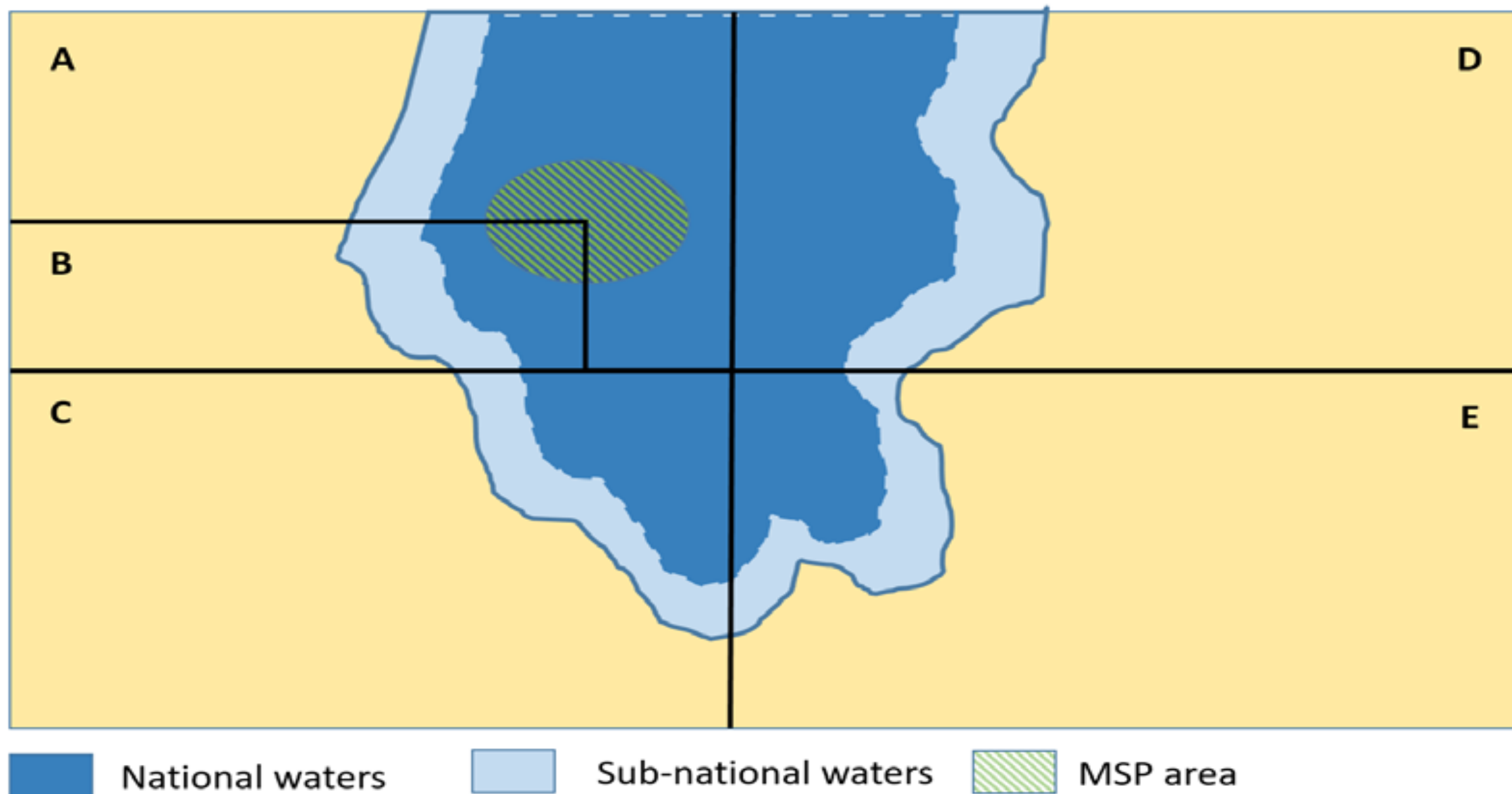
Number of countries with MSP initiatives in 2017



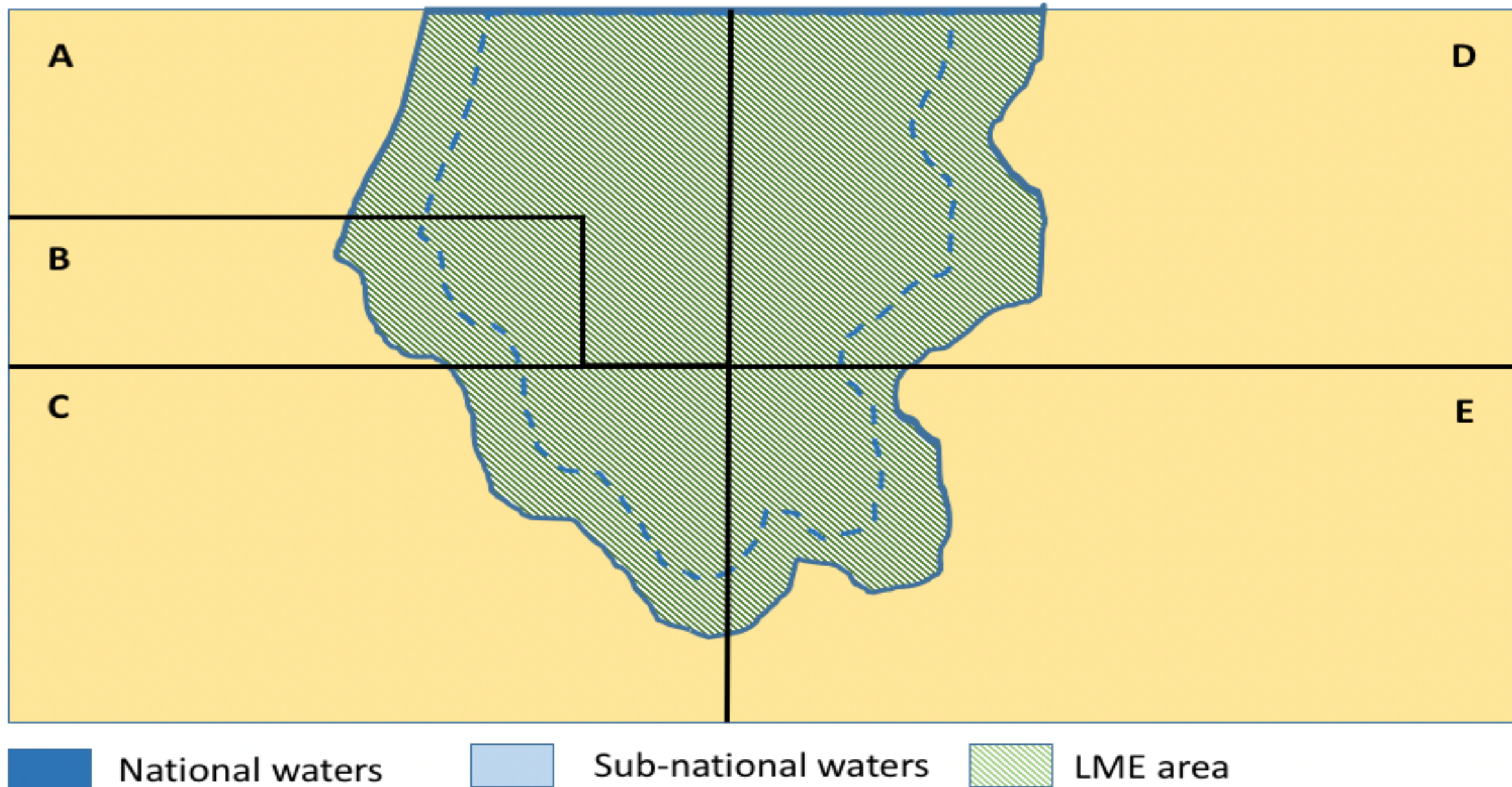
MSP - From national to transboundary scale



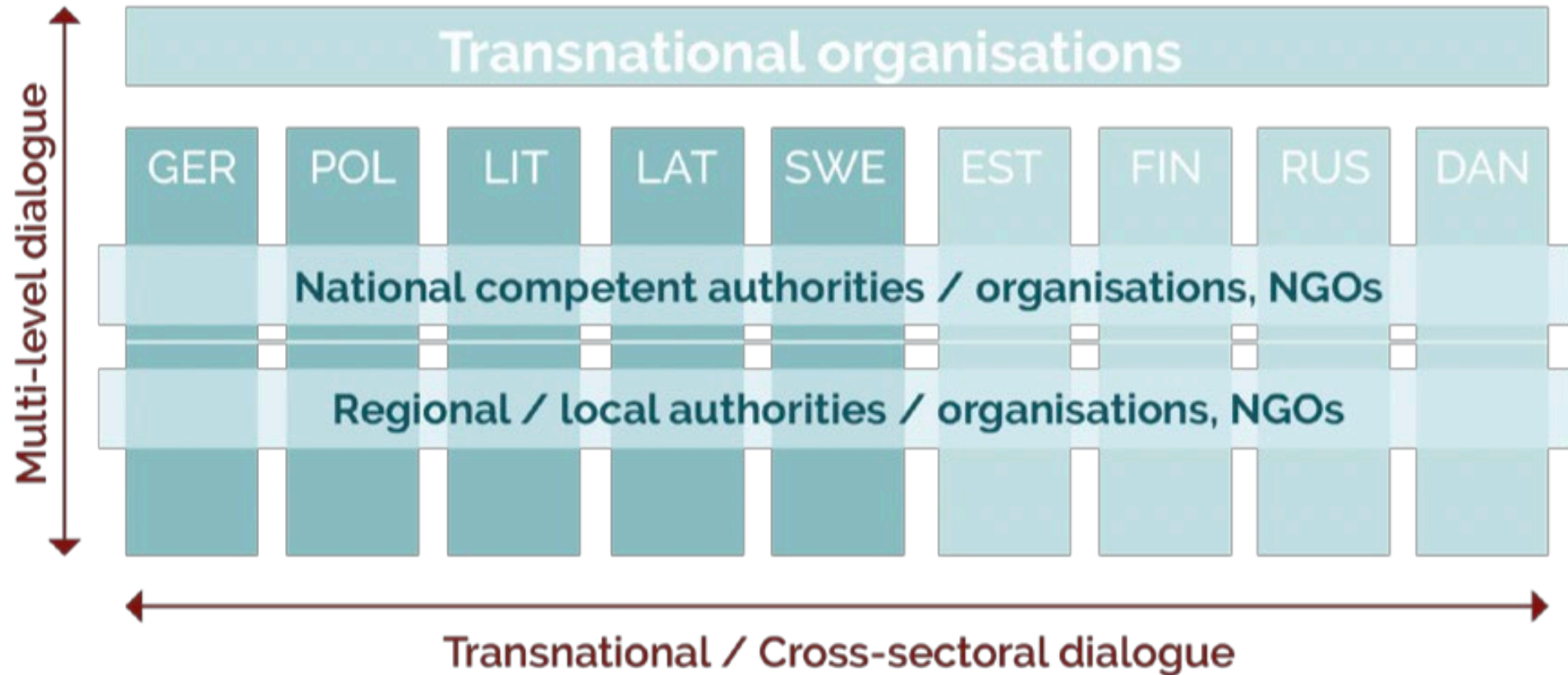
Cross-border MSP (countries A & B)



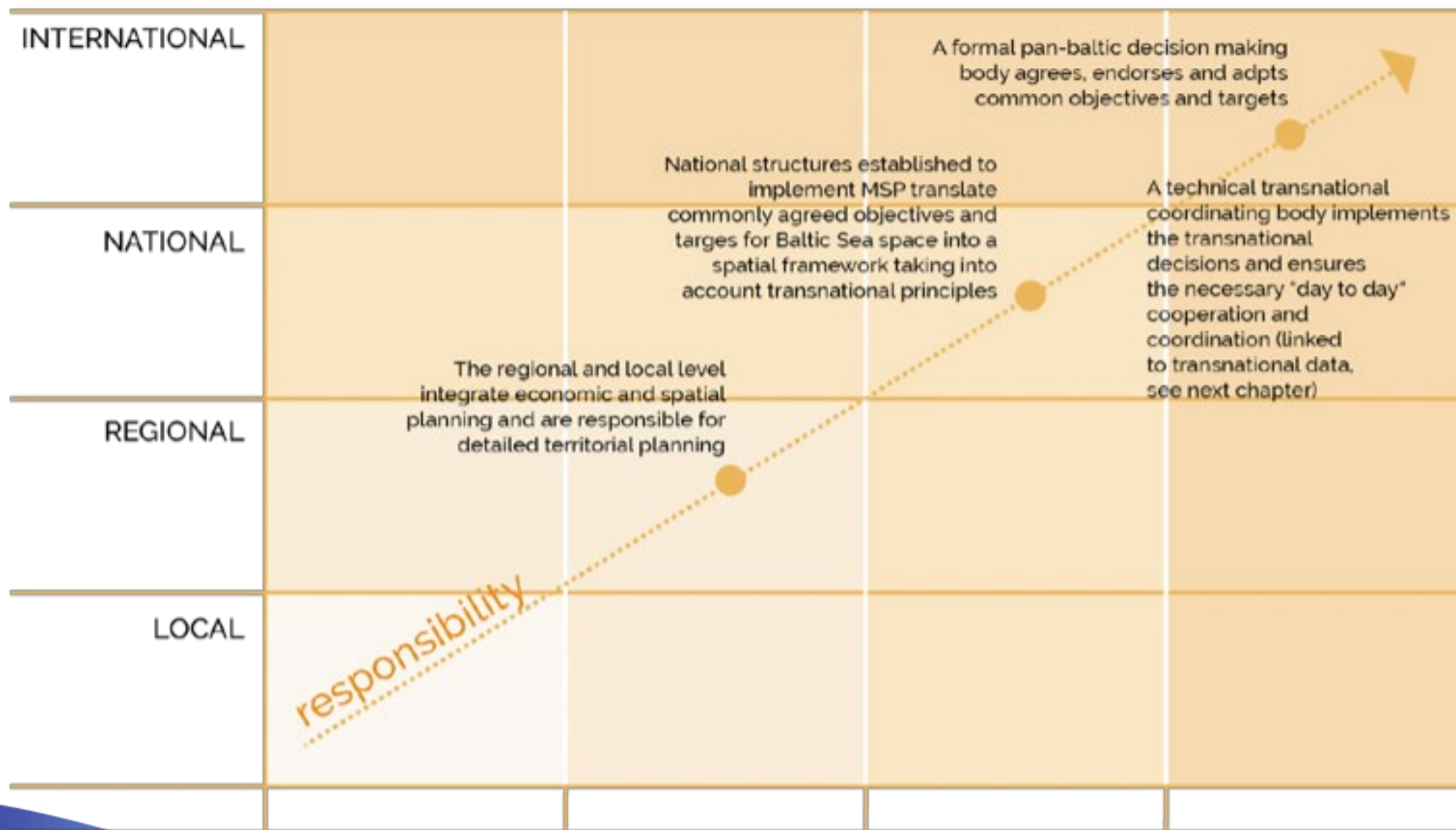
Transboundary MSP (national & sub-national waters of all countries)



Multi-level paths in the Baltic Sea Region



DIFFERENT ROLES & RESPONSIBILITIES IN MSP (A POSSIBLE SET UP)



What can transboundary MSP result in ?

- One single marine spatial plan covering an entire transboundary area vs **a coherent set of national marine spatial plans within the LME**, which are based on jointly developed outputs
- A joint assessment of current conditions covering the whole LME
- A forward-looking vision/strategy for the LME at hand
- Mutually agreed upon guidelines and principles

Other consideration...

Establishing the Partnership / Team for a Transboundary MSP Process

Composition of a transboundary MSP partnership /Coordinating bodies

Defining the Objectives and effective communication and working structures

Stakeholder Engagement in Transboundary MSP

Multi-level consultations in MSP

Stakeholder Identification /Engagement Strategy /

Stakeholder analysis and mapping / communication tools

Analysing the Conditions

Understanding the different levels and boundaries of the governance systems

Understanding National Priorities and Interests

From Common Mapping to Joint Data Portals /Starting with initial mapping

Prioritising / selecting relevant data used for joint maps

Data sharing / Harmonising Data

Data analysis and visualisation tools

Cumulative Impact Assessment

Analysing future conditions & developing joint visions

Analysing future sector developments and requirements

Developing a common transboundary vision

Development of multiple scenarios

Solutions, Planning and Implementation

How to move from analysis to joint solutions /Implementation and Enforcement

Monitoring & Evaluation of Transboundary MSP

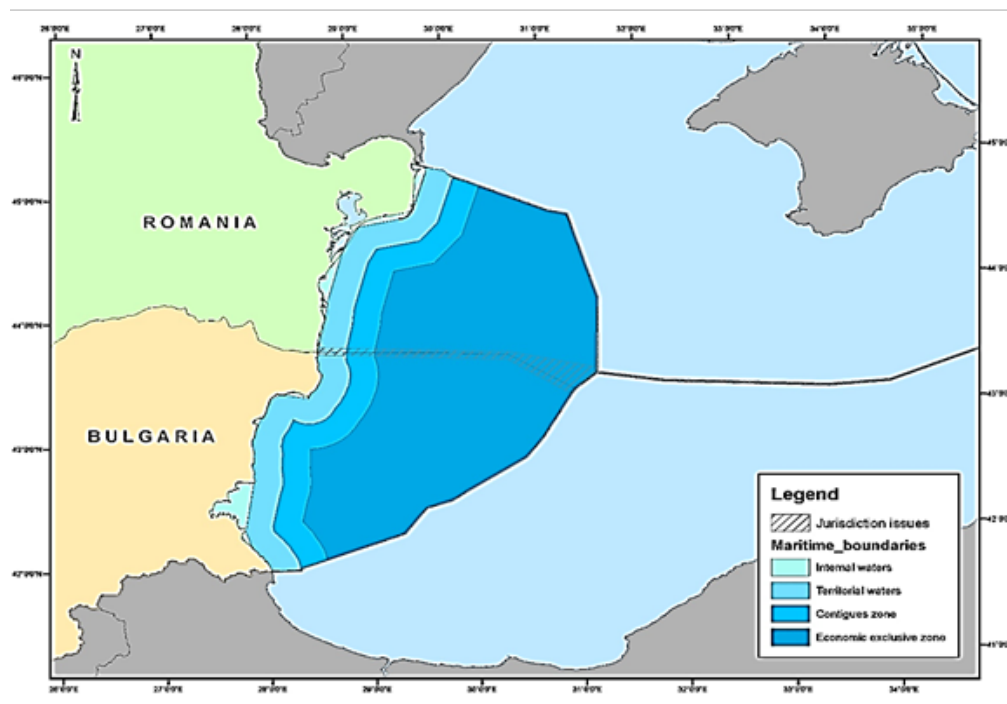




ROMANIAN-BULGARIAN EXPERIENCE AIMING TRANSBOUNDARY APPROACH



MARSPLAN BS PROJECT AIM



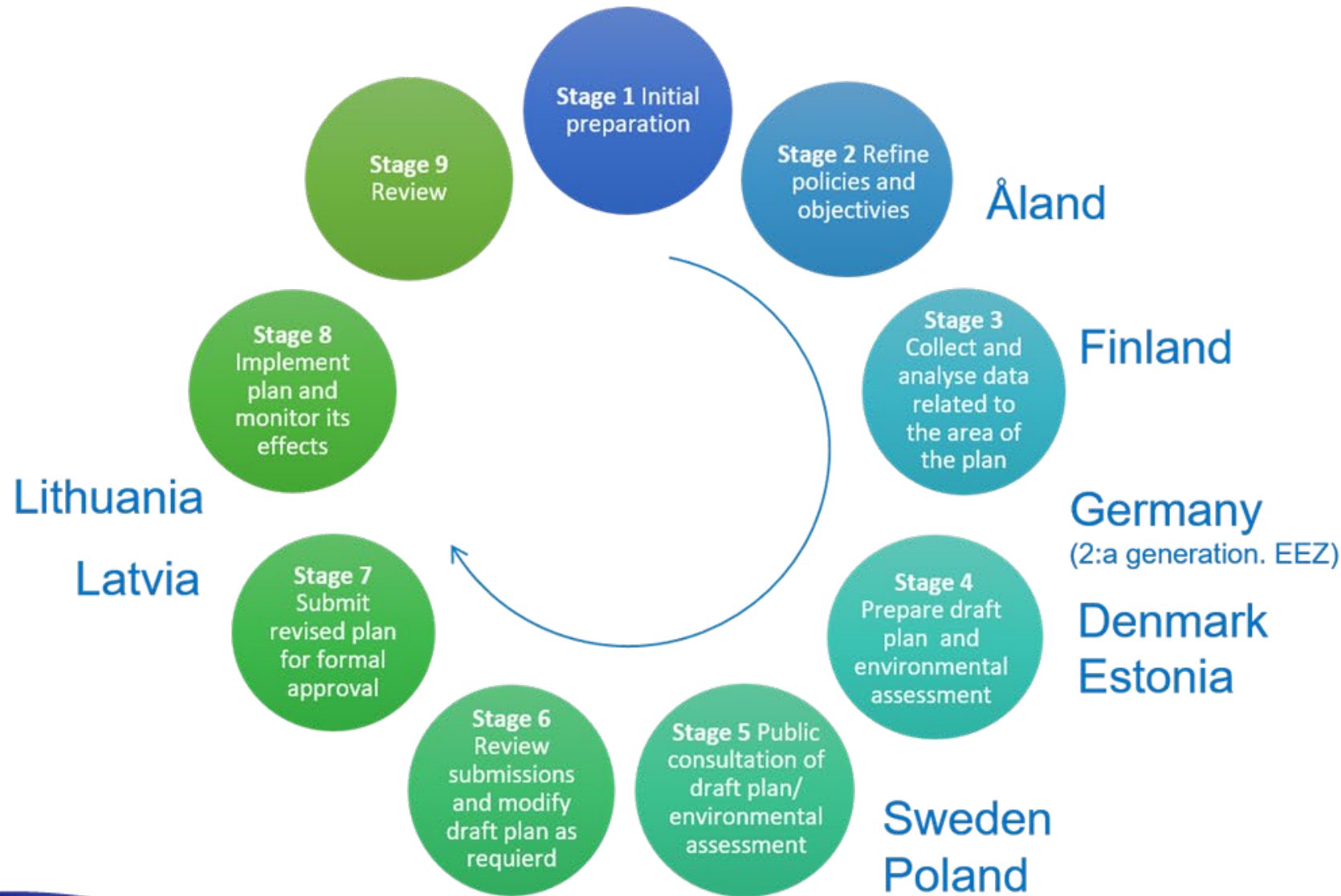
Call reference No: MARE/2014/22

Cross border maritime spatial planning in the Black Sea – Romania
and Bulgaria (MARSPLAN – BS)

EASME/EMFF/2014/1.2.1.5/2/SI2.707672 MSP LOT 1/BLACK
SEA/MARSPLAN-BS

- Supporting the implementation of the EU Directive for MSP
- Creating an institutional framework for Romania-Bulgaria cross-border MSP
- Developing the cooperation with all Black Sea countries for MSP
- Consolidating the cross-border cooperation and exchange information between RO-BG
- Setting out the *vision and strategic goals* for Black Sea area on MSP, taking into account *the land sea interaction*
- Elaborating MSP for cross-border area
- Contributing to a wider dissemination of all gathered information concerning MSP, Black Sea, best practices and stakeholders

Snapshot: MSP in Baltic Sea Region (EU)





MSP Mediterranean Experience

PILOT MSPs – SIMWESTMED PROJECT

The case studies of **Var** and Tyrrhenian

Collaboration between 2 bounding pilots

Testing how transboundary cooperation for MSP can enhance protecting marine biodiversity

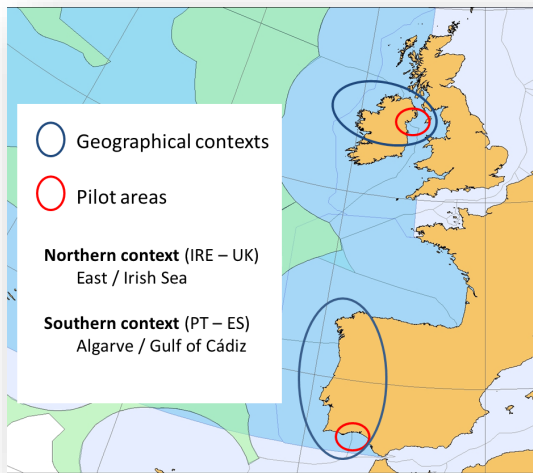


Marine jurisdiction

- French Exclusive Economic Zone
- Italian Ecological Protection Zone

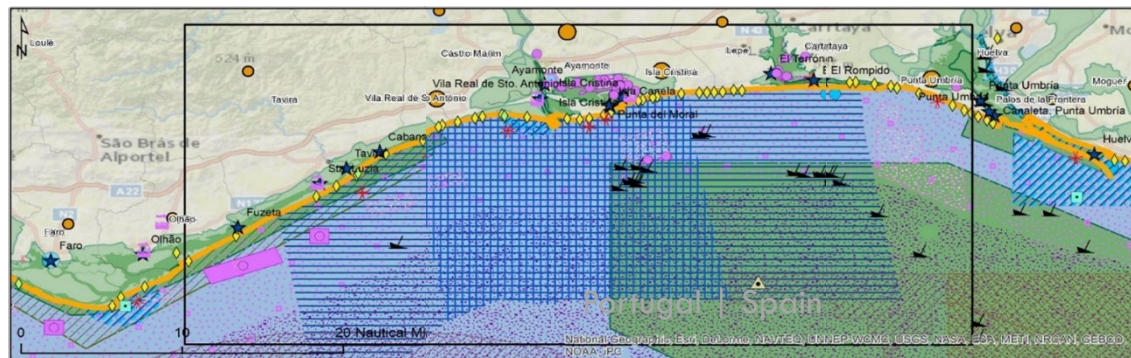


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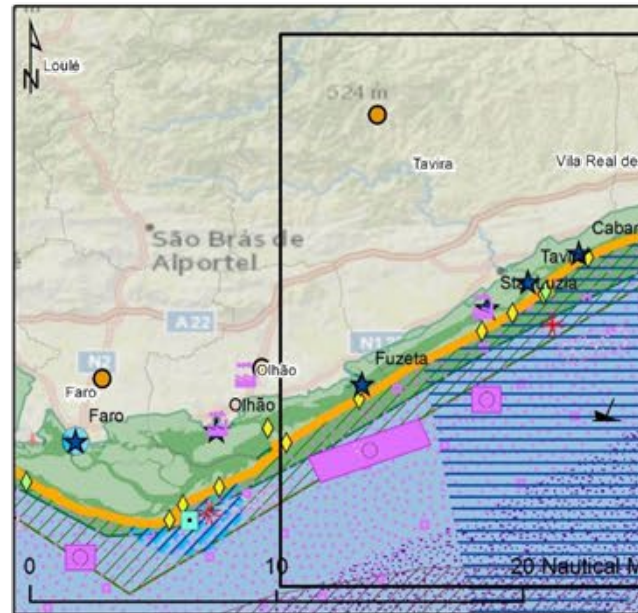


Data & information

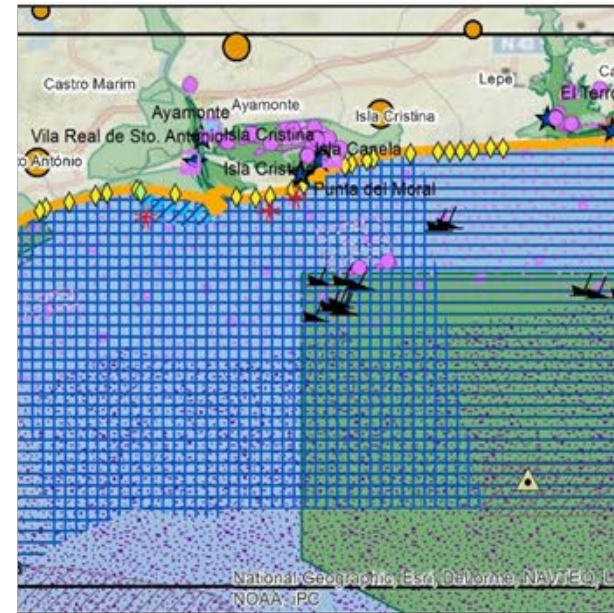
- Harmonization
- Visualization tool (ex: GEOPORTAL)
- Share information
- Know ‘the other’ country



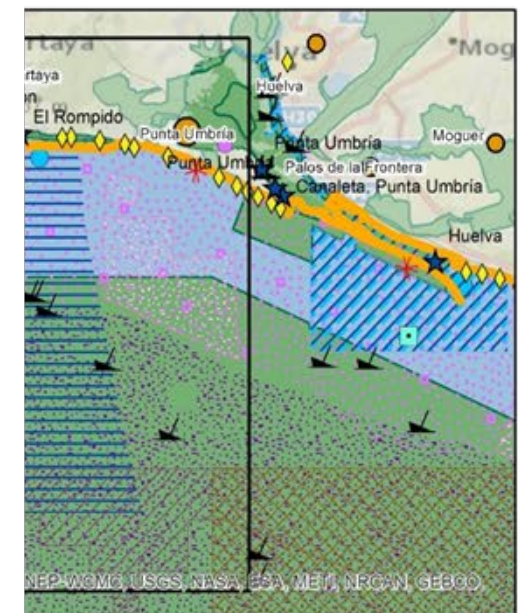
Stakeholders Engagement



3rd Workshop
Távira,
Portugal,
27th March, 2014



1st Workshop
Vila Real de S^{to} António,
Portugal,
12th March, 2013



2nd Workshop
Huelva,
Andalusia, Spain
13th November, 2013



So in short...

- Transboundary MSP still in infancy
- National MSP process in most operational LME
- Many parallels in between MSP process & TDA SAP processes
- Can we use MSP process to deliver LME outcomes (eg at national level)?
- Can we use LME approach to frame MSP regional goals (building on the TDA SAP process) ?
- Opportunity to broaden LME stakeholders (eg. bring in business operators & others)

#MSP2017Paris

2nd International Conference on **MARINE/MARITIME SPATIAL PLANNING**

15-17 March 2017, Paris UNESCO HQ



Intergovernmental
Oceanographic
Commission

Joint Roadmap to accelerate MSP worldwide



PA 1: TRANSBOUNDARY MSP

Guidance on transboundary MSP

Transboundary projects / 3rd International Conference

PA 2: SUSTAINABLE BLUE GROWTH

MSP and Blue Growth Studies and Conferences

PA 3: ECOSYSTEM-BASED MSP

Knowledge and capacities on environmental pressures

PA 4: CAPACITY BUILDING

Training the trainer for planning our ocean

PA 5: MUTUAL UNDERSTANDING

International MSP forum and communication actions

New global MSP initiative

#MSPglobal Project

- 1) to develop a **guidance document on international cross-border/transboundary maritime spatial planning**
- 2) to support **concrete actions in the selected sea-basins** helping to build capacity for maritime spatial planning;
- 3) to support the **establishment of lasting mechanisms for cross-border cooperation.**



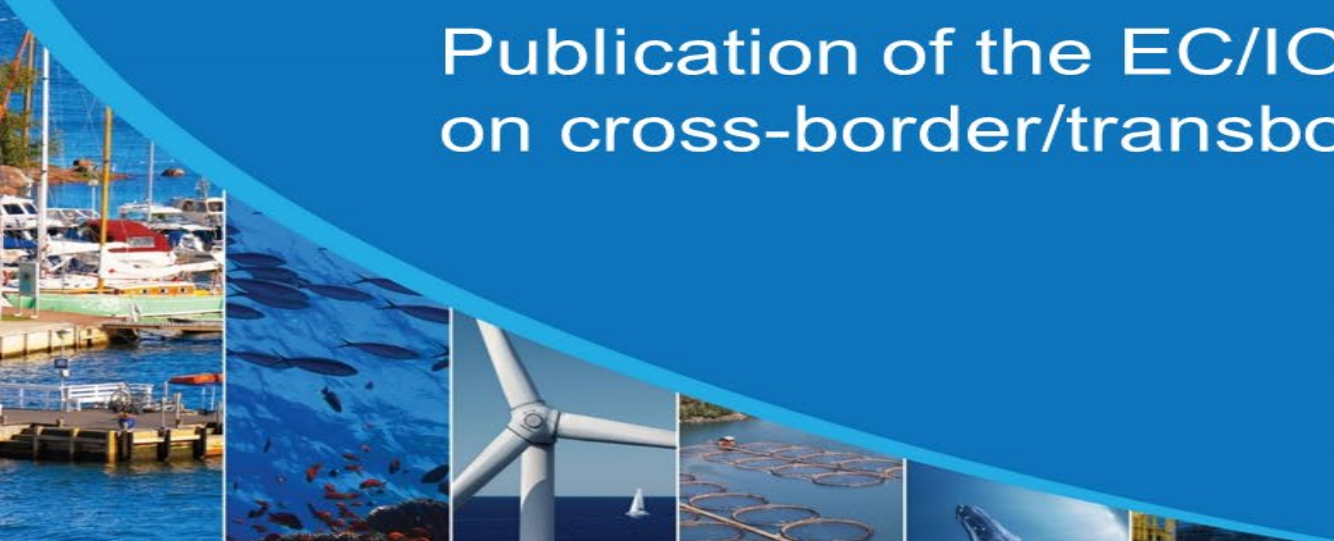
Next Steps: International Guidance Actions

Creation of International Expert Group on Marine/Maritime Spatial Planning

Compilation and review existing and emerging cross-border and trans-boundary MSP initiatives

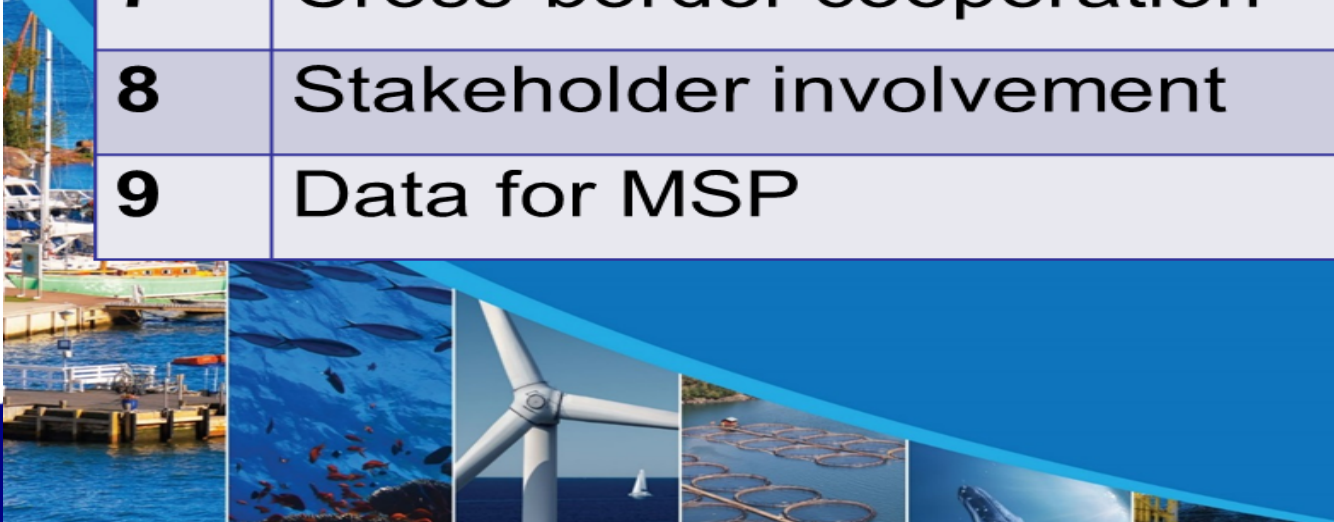
Strategic recommendations for the promotion and exchange of MSP at international level

Publication of the EC/IOC Joint guidance document on cross-border/transboundary MSP



MSP International Forum – Main topics

1	Cross-sector Integration in MSP
2	Sector-Specific aspects
3	MSP for Blue Growth / Assessment of Future Uses
4	Indicators and measurements for MSP
5	Taking into account the land-sea interface in MSP
6	Applying the ecosystem based approach
7	Cross-border cooperation
8	Stakeholder involvement
9	Data for MSP



MSP International Forum – Target audience

- Policy makers and practitioners engaged in Maritime Spatial Planning;
- Maritime sector and industry stakeholders dealing with planning and spatial use;
- Local and regional authorities, engaged in the planning and management of the sea-land interface;
- NGOs addressing marine protection;
- Academics and researchers engaged in MSP and/or the Blue Economy;





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Comisión
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Objetivos de
Desarrollo
Sostenible

<http://msp.ioc-unesco.org>

Marine
Spatial
Planning
Programme



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission



Contact

Sitemap

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About

MSP Guides

World Applications

MSP Good Practices

References

Balancing sustainable use
and conservation through
Marine Spatial Planning



Use this map to explore
the many countries
around the world that
are using Marine Spatial
Planning to encourage
compatible uses, reduce
use conflicts, and



2030 Target for Marine Spatial Planning

by

2030

≥33%

under
government-
approved

of surface area
of world's
exclusive
economic
zones

**Marine
Spatial
Plans**



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission



Sustainable
Development
Goals

LME20
MARRAKECH 3-4 NOVEMBER 2018

**Stronger
together**

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¡Muchas gracias!

Merci!

Thank you!

Спасибо

谢谢

<http://msp.ioc-unesco.org>



How could MSP fit into LME SAPs: Challenges and synergies; elements for integration; expected outputs and possible methodological approaches

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Andrew Hudson

Head, Water & Ocean Governance Programme

UNDP

UNESCO's *Step-by-step Approach for Marine Spatial Planning toward Ecosystem-based Management*

Step 1 - Establishing Authority

Step 2 - Obtaining Financial Support

Step 3 - Organizing the MSP Process

Step 4 - Engaging Stakeholders

Step 5 - Analyzing Existing Conditions

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Step 7 - Developing the Plan

Step 8 - Implementing the Plan

Step 9 - Evaluating Performance

Step 10 - Adapting the Process

Attribute	TDA	SAP	MSP
Ecosystem assessment, prioritization of issues	X		Step 5
Analysis of environmental & socioeconomic impacts	X		Step 5
Governance and barrier analysis	X		Steps 4, 5
Root cause analysis	X		
Develop long term Ecosystem Quality Objectives (Eco QO)		X	Step 3
Brainstorm ways to achieve Eco QOs (policy, regulatory, inst'l, investments)		X	Step 7
Narrow down to feasible (technical, political, financial, etc.) actions		X	Steps 2, 6
Agree targets and M&E indicators for Eco QOs		X	Step 9
Stakeholder participation plan		X	Step 4
Agree SAP/MSP institutional framework		X	Step 1
Prepare SAP/MSP		X	Step 7
Implement SAP/MSP & Adaptive Management		X	Steps 8, 9, 10

What could be some 'additionalities' of integrating MSP into LME TDA/SAP?

- Move towards spatial planning at LME scale
 - Bring in new tools: GIS, AI/big data, AIS/VMS, satellite imagery, autonomous vehicles, oceanographic models, etc.
- Increased emphasis on identifying and managing potential ocean use conflicts
- Increased emphasis and use of spatial and temporal scenario analysis to inform policymaking and adaptive management
- Increased emphasis on and use of compliance and enforcement measures
 - New tech to leapfrog traditional expensive and insufficient approaches (e.g. iphone apps real-time data and maps, automatic reporting of fishing etc. activity)
- Enhance public awareness and involvement via making LME MSP info and data transparently available
- All of this (and more) would require extensive capacity building in GEF LME countries

Panel discussion

Experiences and potential use of MSP in SAP implementation

Patrick Debels

Caribbean Large Marine Ecosystem

CLME+ Regional Project Coordinator

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CLME+ SAP (2015-2025)

- SAP: healthy marine environment supporting livelihoods & well-being (*blue economy*)
- Calls for action on habitats, pollution, fisheries (CC) through enhanced governance and coordination
 - Issues cannot be seen in isolation from each other, need an integrated approach
- Regional level: IGO's with sectoral mandates
 - E.g. Cartagena Convention Protocols – combined ~ ICZM
 - CLME+ Interim Coordination Mechanism
 - OECS regional ocean governance policy – *ocean governance committees*
- National level: NICs – link “SAP/project requirement” to “purpose”

Panel discussion

Experiences and potential use of MSP in SAP implementation

Marina Markovic

MAP / PAP-RAC

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IMPLEMENTATION OF THE ECOSYSTEM APPROACH IN THE ADRIATIC THROUGH MARINE SPATIAL PLANNING

Strategic Action Programme for the conservation of Biological Diversity (SAP BIO) in the Mediterranean Region - 2003

Strategic Action Programme to address pollution from Land-Based sources (SAP MED) in the Mediterranean Region - 1997

IMAP



Asses



Define ideal state



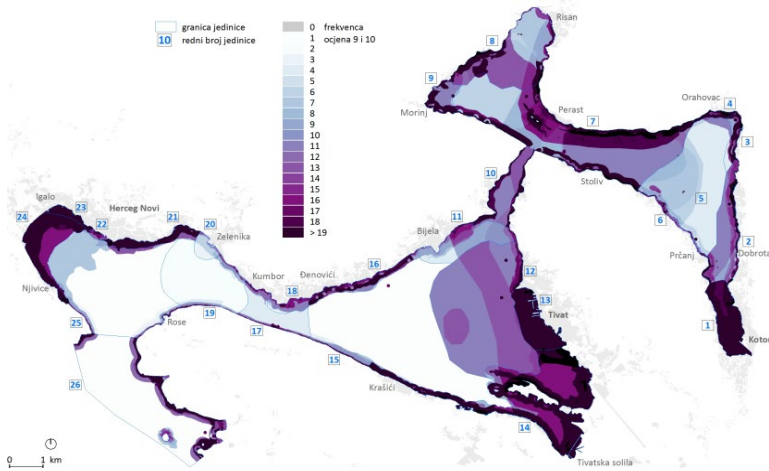
Set targets



Monitor



Implement



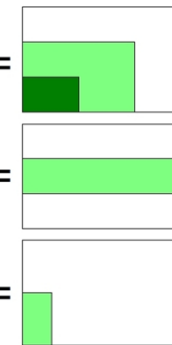
environmental vulnerability



sea use suitability



sea use options



optimum

compromise1

compromise2

IROP?



ADRIATIC

Panel discussion

Experiences and potential use of MSP in SAP implementation

Thandiwe Gxaba

Benguela Current Commission

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Panel discussion

Experiences and potential use of MSP in SAP implementation

Yellow Sea Large Marine Ecosystem

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YSLME II – status, challenges and opportunities in application of MSP to support SAP implementation

Status:

- Legal framework in China and RO Korea;
- Ecologically important areas identified;
- TDA and SAP adopted in 2009 and shared targets and established partnerships in scientific institutions
- Ongoing collaboration in SAP implementation and joint research in migratory fish and threatened birds and mammals;

Challenges:

- Different systems and planning and implementation history in China and RO Korea;
- Regional governance mechanism to put in place and full participation;
- Insufficient data and capacity;

Opportunities:

- Interest in MPA networking for marine mammals, birds and migratory fishes, and in comparative study of MSP in pilot areas;
- Scenario analysis, erosion analysis, ecosystem zoning and marine dynamic modelling as a key lesson learning in methodologies;
- SAP update.

Panel discussion

Experiences and potential use of MSP in SAP implementation

Humboldt Current LME

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LME20

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¡Muchas gracias!

Merci!

Thank you!

Спасибо

谢谢



<http://msp.ioc-unesco.org>

Session 4a will continue this evening with a

**Marine Spatial Planning #MSPglobal
Networking event at
Adam Park Hotel from 19.30h**

With the support of the:



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**Tack så mycket!
Thank you!**



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