

A General Land- Sea Interaction Framework

Sue Kidd
University of Liverpool
suekidd@liv.ac.uk

• WiFi
Meeting voucher:
meeting1505

Maritime Spatial Planning Conference
Addressing Land-Sea Interactions
St Julian's, Malta – 15 & 16 June 2017



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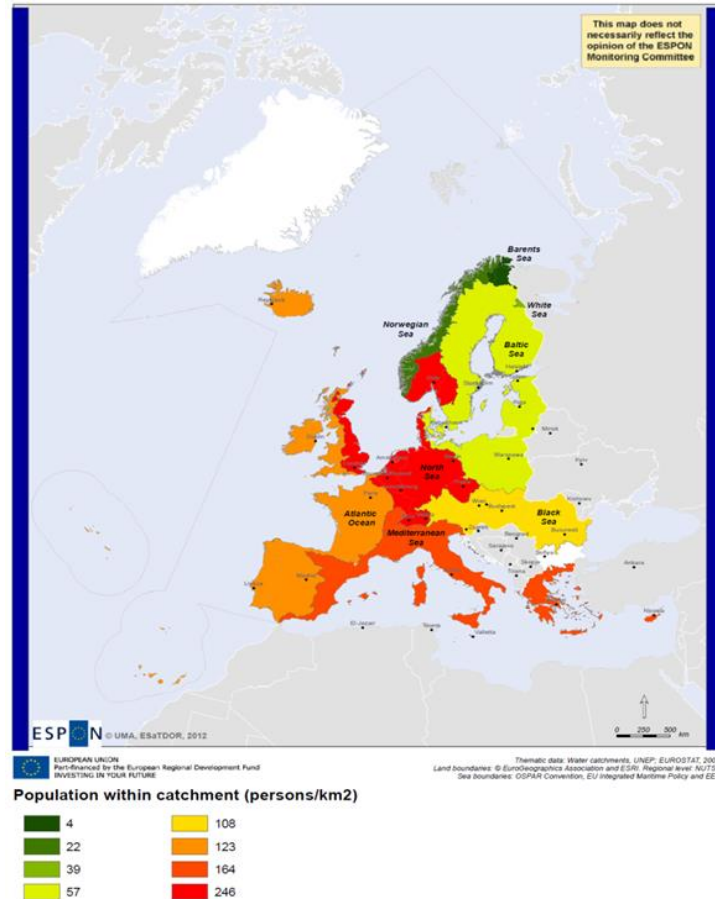


Outline

Why?

What?

How?



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Why?



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LSI and the MSP Directive

- LSI should be taken into account (Art 6)
- Through MSP or other formal or informal processes such as ICM - MSP should aim to promote coherence with other relevant processes (Art 7)

MSP should aim to integrate the maritime dimension of some coastal uses or activities and their impacts and ultimately allow an integrated and strategic vision' (recital 16)



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European
MSP Platform

Integrated Coastal Management

Often a voluntary practice

More landward in orientation

Stakeholder collaboration focus

Strategies and plans possible

Allocation of space possible

Maritime Spatial Planning

Now a statutory requirement

More marine in orientation

Planning policy focus

Formal plans a requirement

Allocation of space probable

**New opportunities to
address LSI issues**



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WHAT?



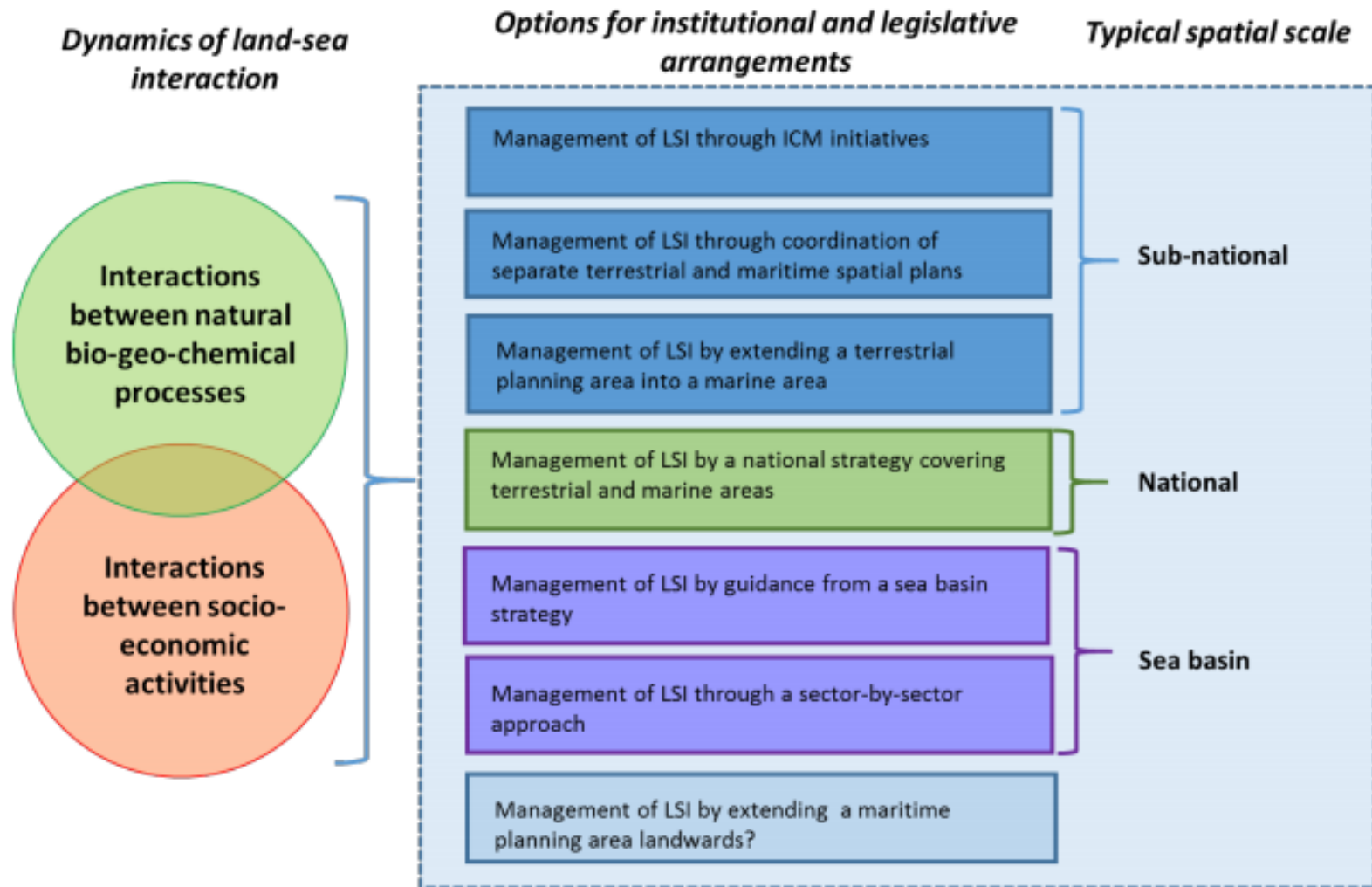
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A General Framework for Land Sea Interaction



The Dynamics of Land Sea Interaction: Bio-geochemical processes

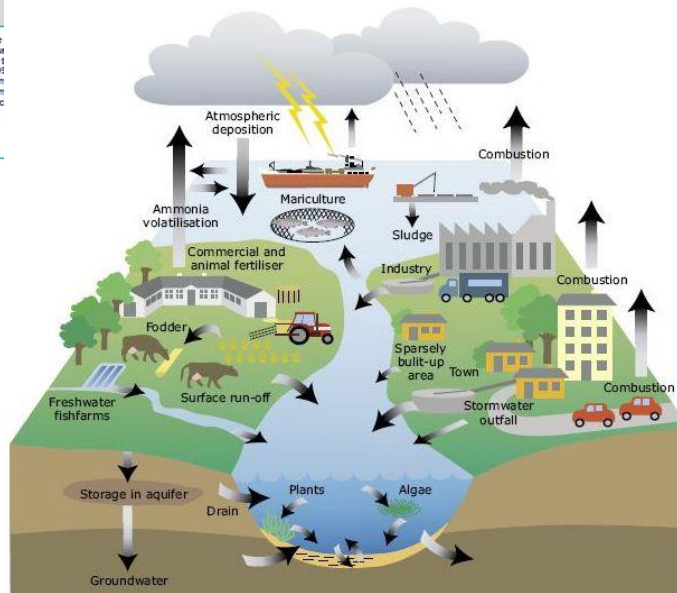
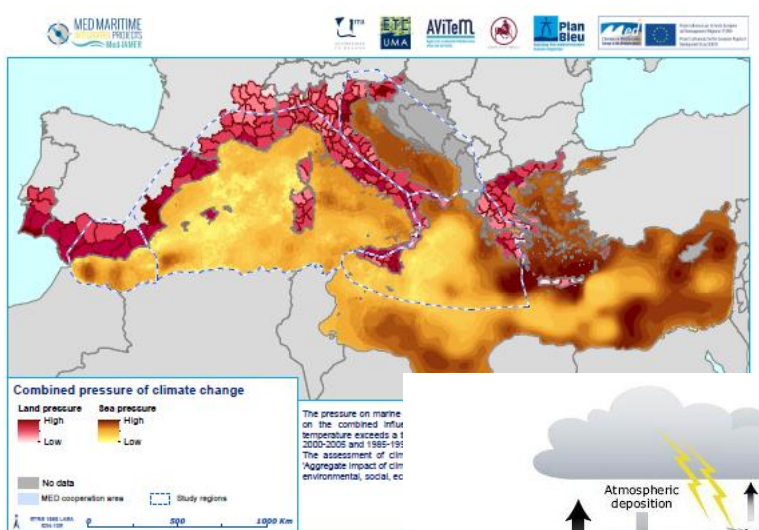
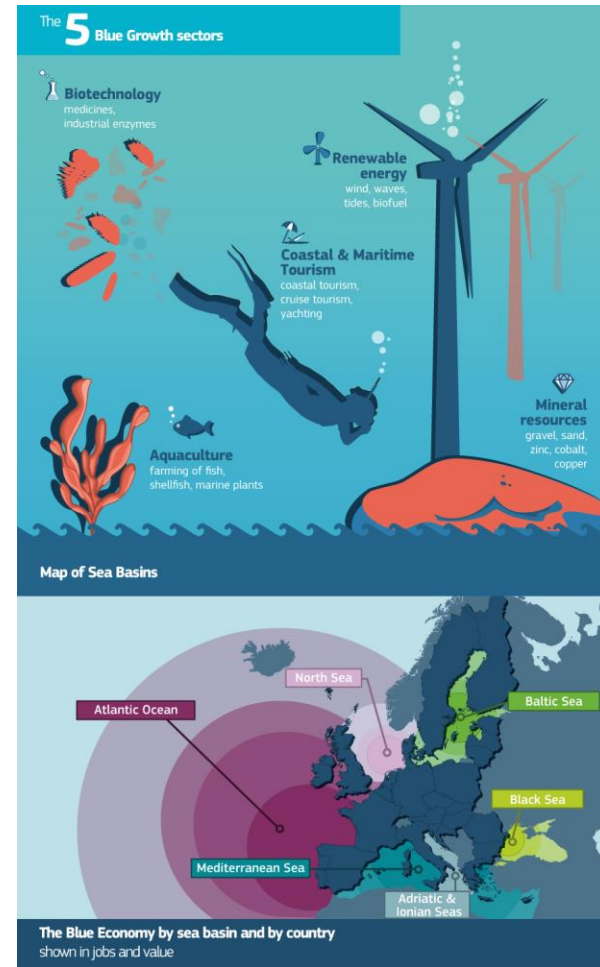
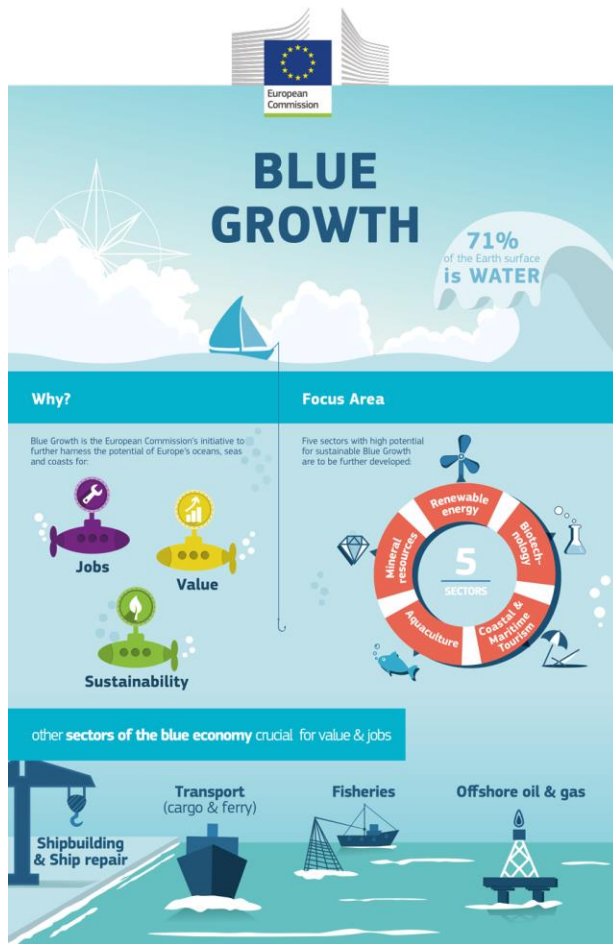


Table 1: Land- Sea Pressure/Impact Matrix: Adapted from White et al. (2013)

Pressure	Biodiversity	Non-indigenous species	Commercial Fish & Shellfish	Foodwebs	Eutrophication	Seafloor integrity	Hydrographic conditions	Contaminants (ENM)	Fish and Shellfish Contaminants	Marine Litter	Energy introduction (and noise)
Abrasion (physical disturbance to habitats)	X			X		X		X			
Barrier to species movement	X		X	X							
Change in wave exposure (alteration of normal regime)	X		X	X		X	X				
Changes in Siltation (above natural levels)	X		X	X		X					
Electromagnetic changes	X		X	X			X				
Changes (alteration of natural)	X			X		X	X				
after (above natural levels)	X		X	X	X	X			X		
robial pathogens (above natural)	X		X	X		X			X		
Non-Indigenous Species and Translocation	X	X	X	X	X	X					
Non-synthetic compounds (e.g. heavy metals)	X		X	X		X		X	X		
Antibiotics (above natural levels)	X		X	X		X		X	X		
Chemical compounds (e.g. pesticides, herbicides)	X		X	X		X		X	X		
Plastic litter (all types)	X		X	X		X		X	X	X	
Phosphorus enrichment	X		X	X	X	X			X		
Alteration of normal pH regime	X		X	X		X	X				
Alteration of normal salinity regime	X		X	X		X	X				
Exposure to sealing with new materials (loss to land (land reclamation))	X		X	X		X					
Reduction of fauna and flora (e.g. due to fishery harvest, loss on cooling)	X		X	X		X					
Reduction of fauna and flora (due to addition of artificial habitat where there is change in natural habitat but the habitat is not lost)	X			X		X					
Alteration of natural temperature	X		X	X	X	X	X				
Alteration of natural levels of noise	X		X	X							X
Changes (alteration of normal water quality)	X		X	X	X	X	X				
Changes to changes in environmental conditions (e.g. due to changes in environmental conditions or acidity resulting from)	X		X	X	X	X	X				

The Dynamics of Land Sea Interaction: Socio-economic activities



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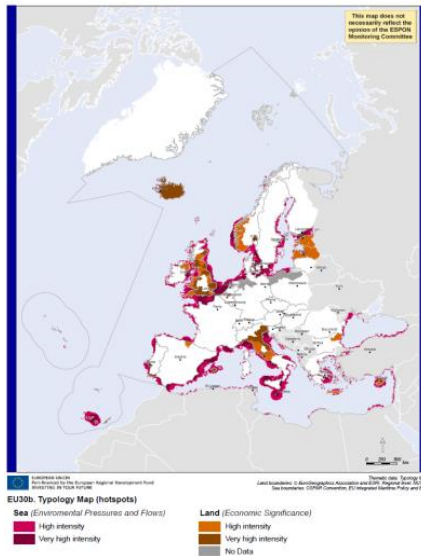
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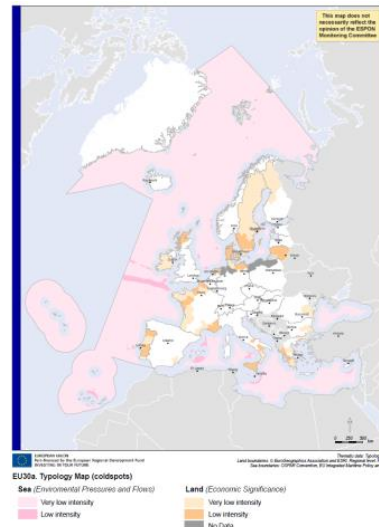
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The Dynamics of Land Sea Interaction: Developing an Integrated View

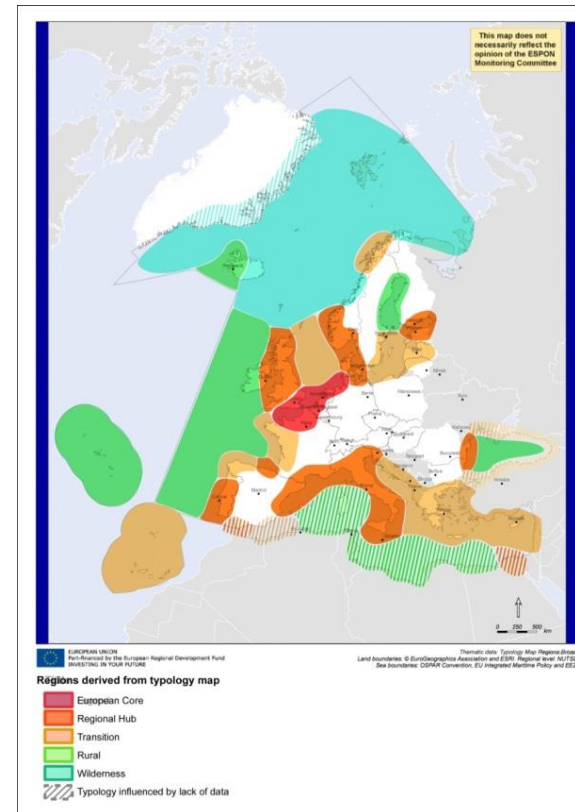
Hot Spots



Cold Spots



European Maritime Region Typology



ESPON
EUROPEAN SPATIAL PLANNING
OBSERVATION NETWORK

ESTaDOR

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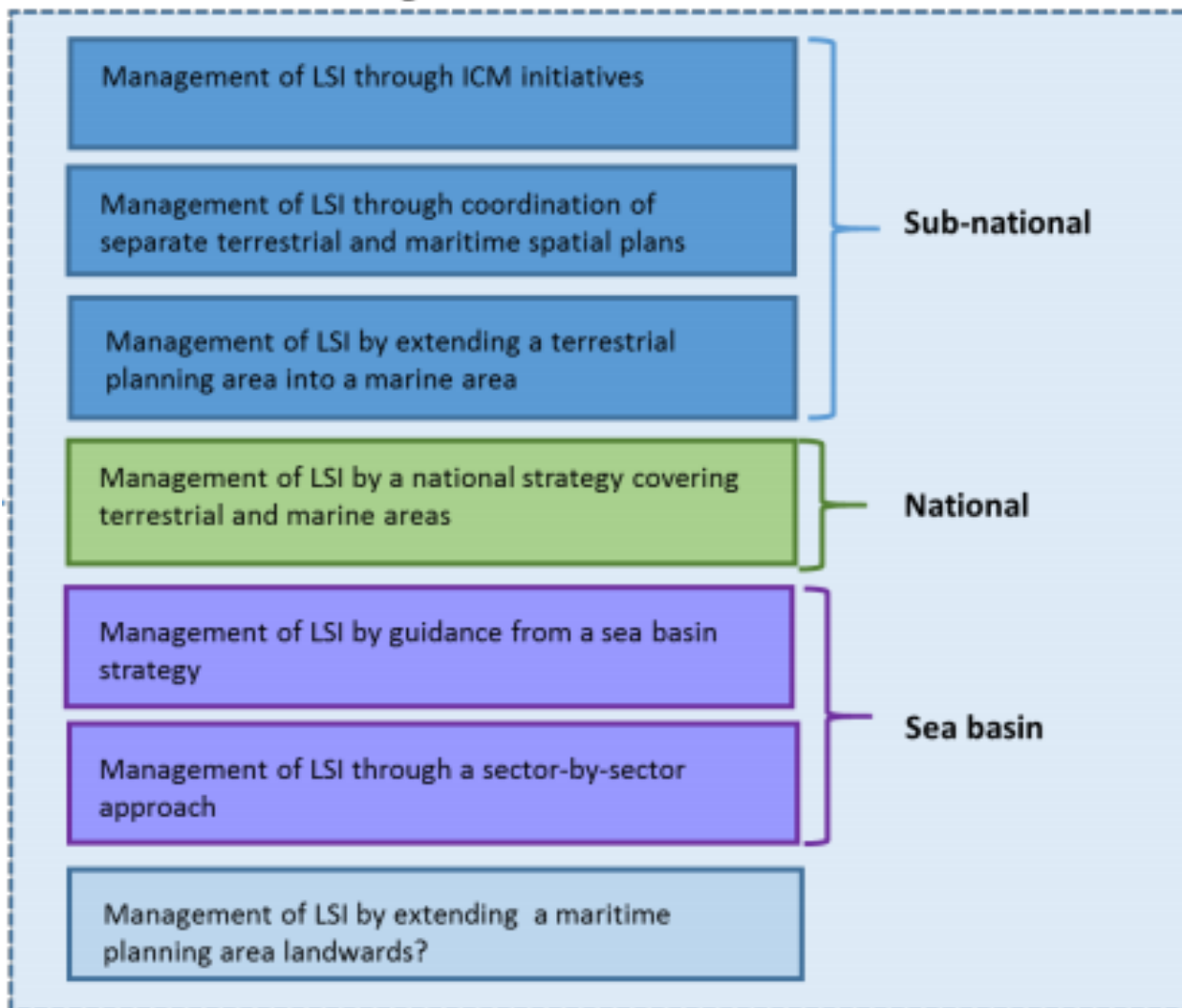
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Options for institutional and legislative arrangements

Typical spatial scale



HOW?



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Our Conference Programme

Plenary Speakers

- Introducing LSI
- Sub-national approaches
- National/sea-basin approaches
- Sectoral approaches and specific tools

Interactive Sessions

- Key LSI issues
- Reflection on sub-national approaches
- Reflection on national and sea basin approaches
- Closing panel discussion



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Thank you for joining us!!



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Interactive Session 1:

Key LSI Issues

Objective: *To identify key LSI issues that should be the focus of integrated planning across marine and terrestrial areas*

What are the LSI issues in your country/context?

What are the top three issues requiring planning across the land-sea continuum?



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Interactive Session 2:

Sub-national approaches to LSI

Objective: *To reflect upon the strengths and weaknesses of different sub-national mechanisms addressing LSI*

Discussion of strengths and weaknesses of different sub-national approaches

Ideas for how challenges might be addressed



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Interactive Session 3:

Addressing LSI in European Sea Basins:

Objective: *To reflect upon the LSI Issues and responses in different sea basins*

LSI mapping in your sea basin

Discussion of strengths and weaknesses of transnational mechanisms to address transnational LSI issues

Ideas for how challenges might be addressed



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