

How to assess sustainability of ocean multi-use?

MULTI-FRAME – TOOLKIT AND MUAA

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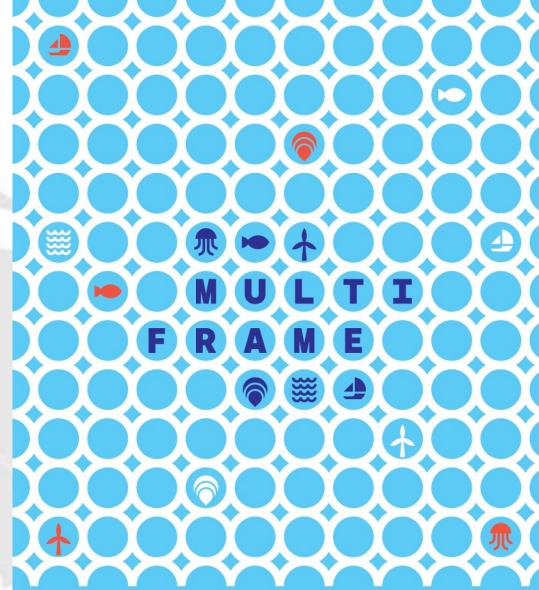


M U L T I F R A M E



What is MULTIFRAME?

- Enhancing knowledge and capacity for ocean MU systems
- Objectives: Provide tools, results, and best practices for informed marine planning
- Pioneer Multi-Use project: the first MU project that extends beyond the EU and is applied on a global scale
- Project duration: 3.5 years (June 2020 – December 2023)
- Funding and Recognition: Belmont Forum, Future Earth, and JPI Oceans 2018-2019 international call



OCEAN MULTI-USE BLUEPRINTS
COLLECTION

- Case Studies:**
- Sweden
 - United States
 - France
 - Norway
 - Brazil

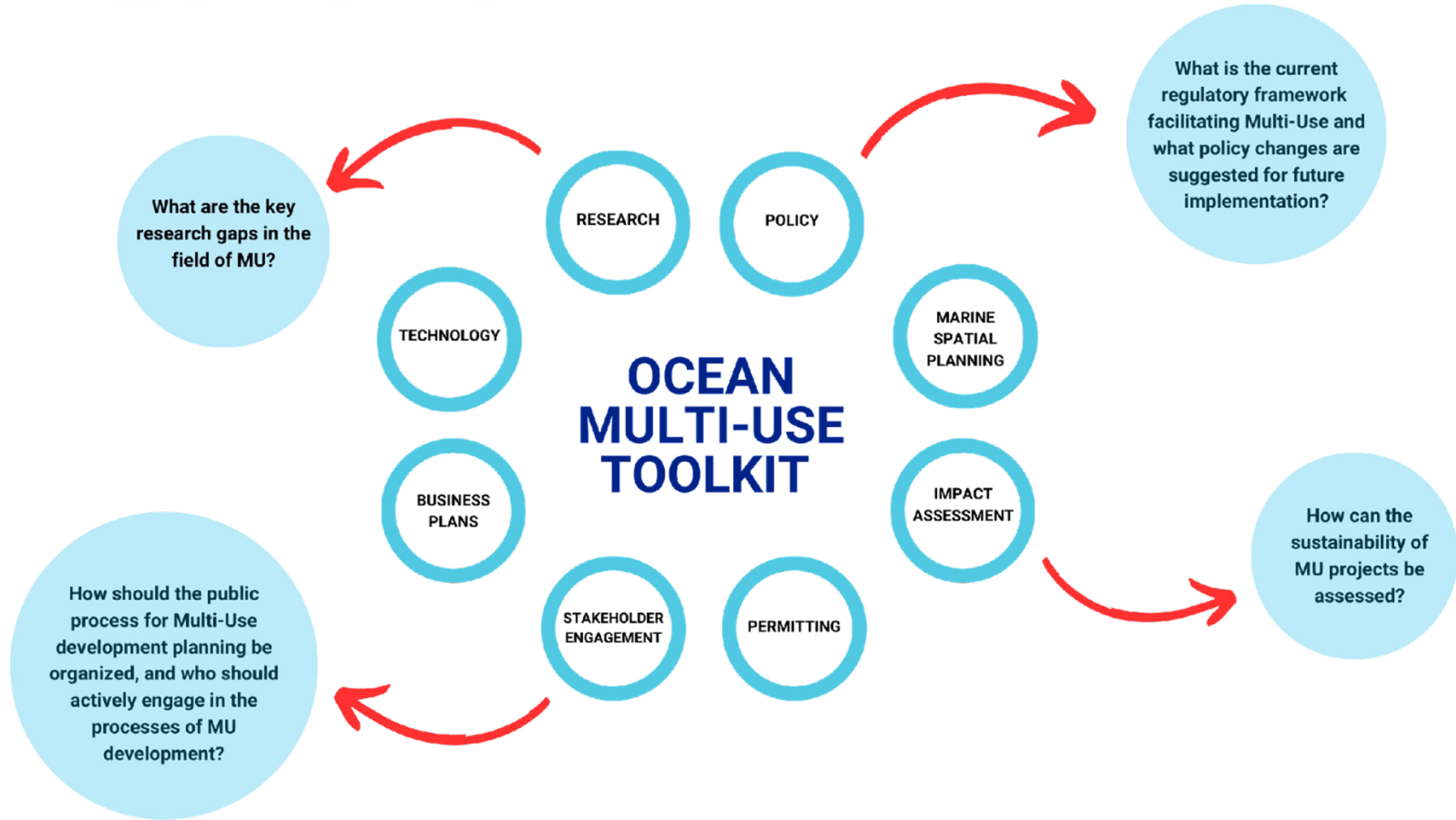


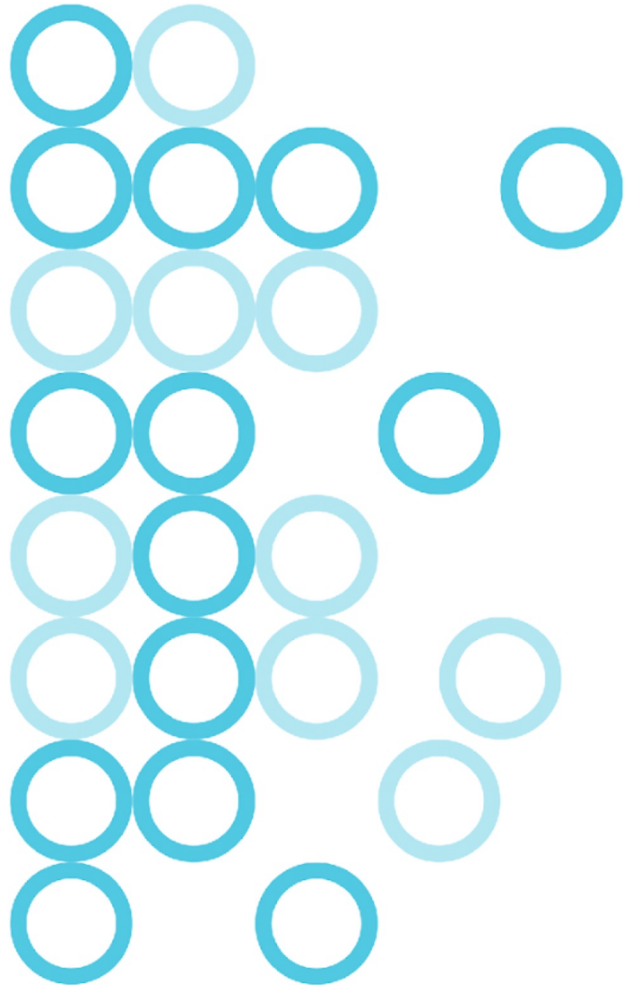
Ocean Multi-Use Toolkit

A Comprehensive Resource for the Integration of Multi-Use Activities in MSP and Policies



Available from
January 2024
[@www.multi-frame.eu](http://www.multi-frame.eu)





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multi-use
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Assessment Frameworks

Assessment Framework	Level of Analysis		Type of Sustainability		
	MSP	Project	Environmental	Social	Economic
UNITED Cumulative Impact Assessment Tool		X	X		
Drivers, Added Value, Barriers and Negative Impacts (DABIs) of Multi Use		X	X	X	X
Design Thinking		X	X	X	X
The Ocean Health Index (OHI)		X	X	X	X
UNITED Assessment Framework		X	X	X	X
Spatial Economic Benefit Analysis (EBA)	X				X
Coastal Governance Policy Cycle	X		X	X	X
Balancing profitability of energy production, societal impacts and biodiversity in offshore wind farm design	X		X	X	X
Multi-Use Assessment Approach (MUAA)	X		X	X	X



Ocean Multi-Use Assessment Approach

Abbey Greene, Coast and Ocean Planner, University of Rhode Island Coastal Resources Center



What We Do

- Provides a process to **explore how you and your community should plan and implement** sustainable coastal and ocean management
- Method is **based on expertise** from all partners
- Method **builds enabling conditions to move forward successfully** to have a productive conversation where everyone feels heard AND science and local knowledge is integrated to finding sustainable long-term solutions



MULTI-FRAME: *Ocean Multi-Use Assessment Approach*



Multi-Use Assessment Approach

Iterative

Participatory

3hrs – 3 months

Serves as a baseline

For practitioners and community members

Name of the Phase	Phase I: Setting the Stage	Phase II: Detailed Evaluation	Phase III: Final Assessment and Recommendations
Purpose	<ul style="list-style-type: none"> a) Understand the capacity and commitment of your stakeholder group b) Develop a plan of action to implement the approach for your case study 	<ul style="list-style-type: none"> a) Clearly define the MU scenario b) Build a greater understanding and capacity to communicate about MU c) Identify challenges that could obstruct, and opportunities that could facilitate, MU 	<ul style="list-style-type: none"> a) Identify solutions to MU challenges b) Identify and prioritize action plan to respond to MU challenges c) Determine dedication to MU and COP d) Determine if MU is appropriate for your case study.
Steps	<ul style="list-style-type: none"> 1. Establish a Case Study Basis 2. Develop Governance Structure 3. Increase MU Knowledge 4. Describe the MU Scenario 	<ul style="list-style-type: none"> 5. Define the MU Level 6. Refine the MU Scenario 7. Identify risks, constraints & opportunities 	<ul style="list-style-type: none"> 8. Identify possible solutions to respond to challenges 9. Evaluate enabling conditions 10. Recommended Actions



Key Takeaways

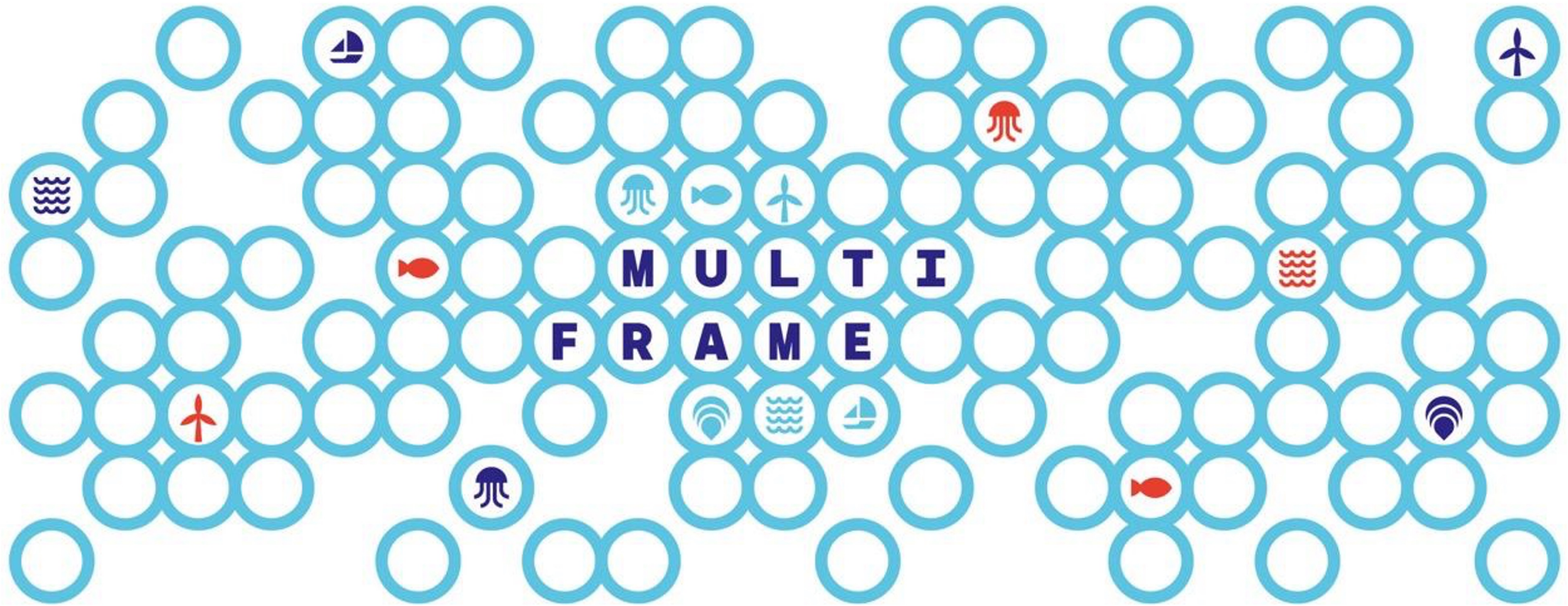
Community of trust

Really Listen

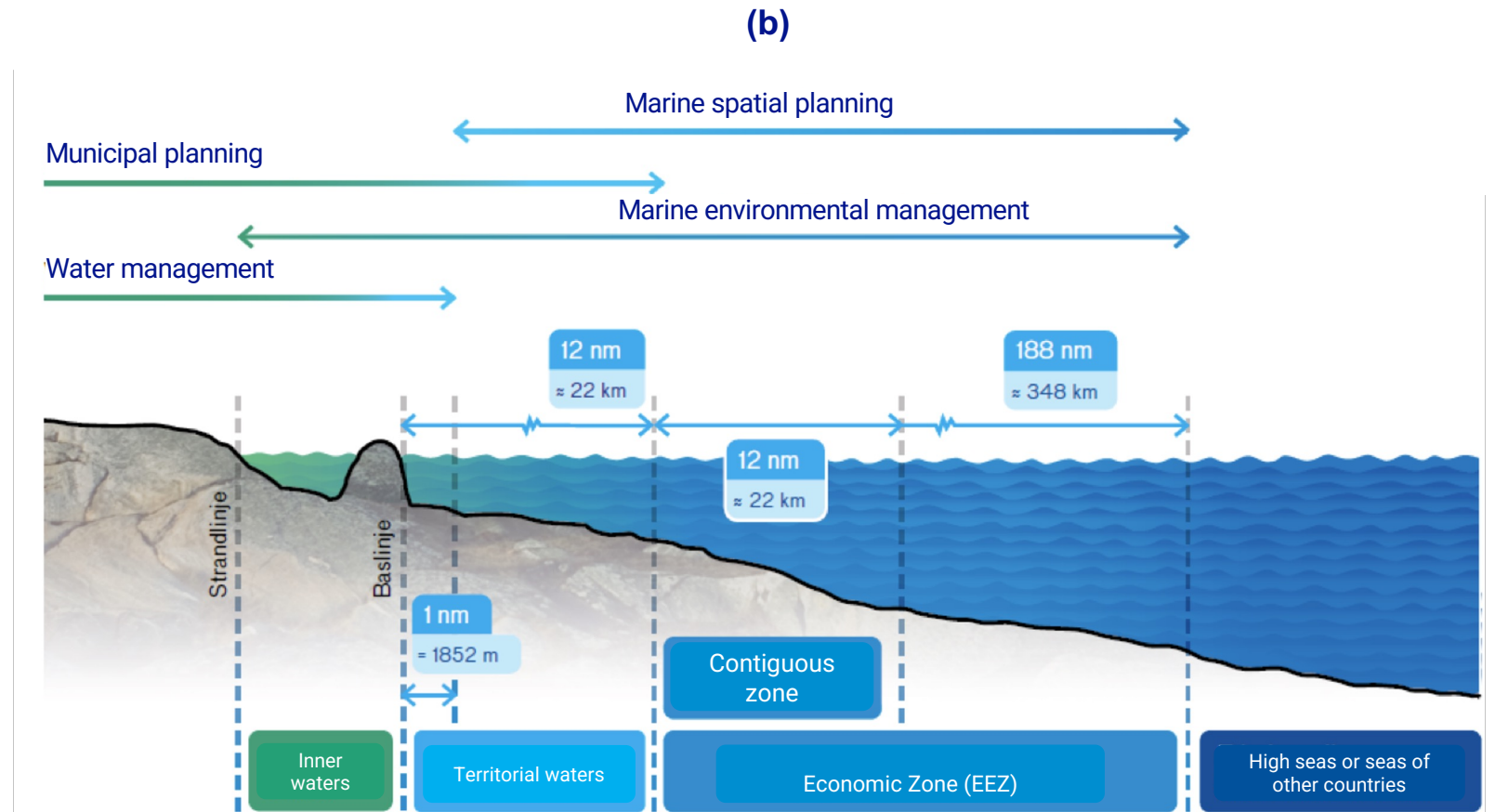
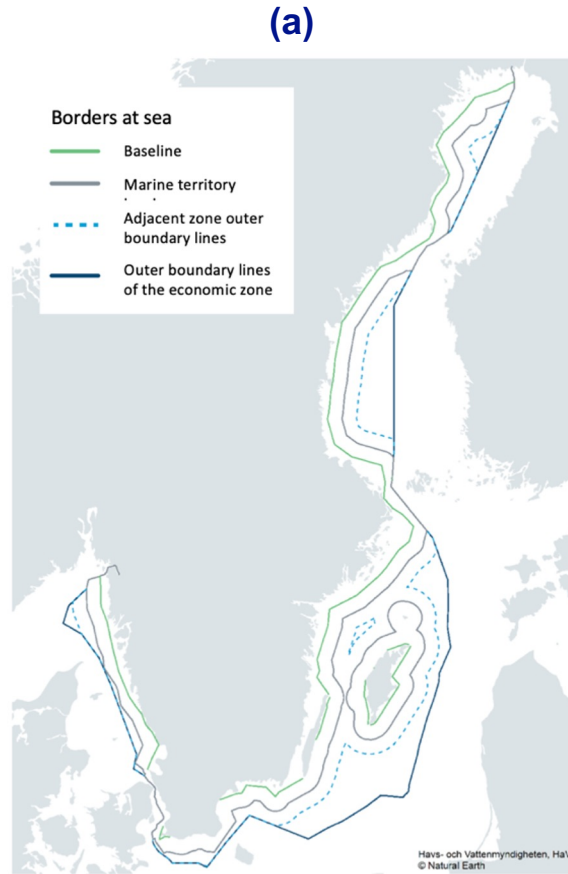
Practice Reciprocity

Repeat the Process





Swedish case study



Map (a) and cross section (b) of maritime administrative boundaries in Sweden

Source: Havs- och vattenmyndighetens 2015. Förslag till inriktning för havs- planeringen med avgränsning av miljöbedömningen, Havs- och vattenmyndighetens samrådshandling. Dnr 3779-14.

<https://www.havochvatten.se/download/18.5108de4514f6f2a66f22a9bf/1441089449180/rapport-2015-00-havsplanering-inriktning.pdf>



Lost in translation? Multi-use, coexistence or "samexistans"

Type	Dimensions				Description
	Spatial	Temporal	Provisioning	Functional	
Typ 1 Multifunctional	✓	✓	✓	✓	Actors exist in the same space, at the same time, and share infrastructure and services/human resources.
Typ 2 Symbiosis	✓	✓	✓		Actors exist in the same space, at the same time, sharing infrastructure.
Typ 3 Co-existence	✓	✓			Actors exist in the same space, at the same time.
Typ 4 Reuse	✓				Actors exist in the same space, but not at the same time.



Busy stretch of coast - important activities have to coexist

Drivers of MU are seemingly conflicting national goals (e.g. seafood and renewable energy targets)

Fragile environment on West Coast, notably threatened species (porpoises & auks) and ecosystems/habitats (sandbanks, reefs & bubble reefs)



Energy extraction



Nature



Recreation



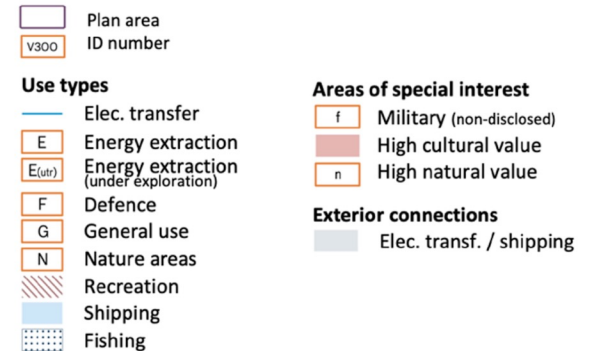
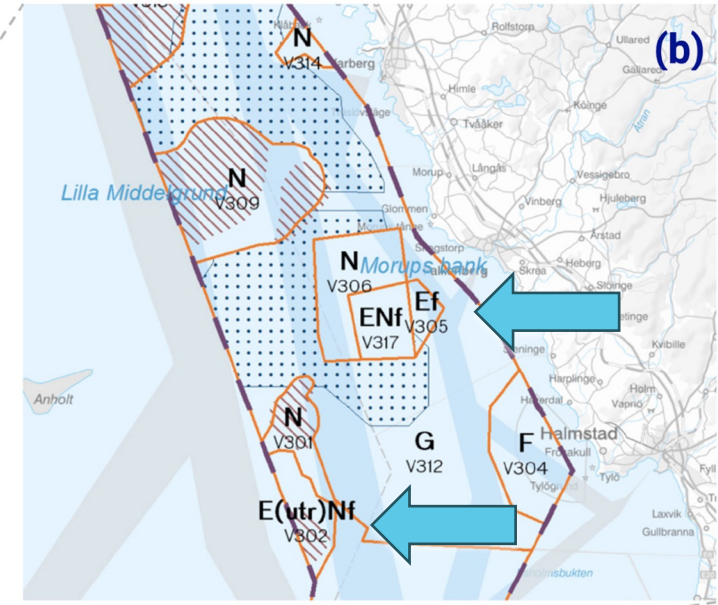
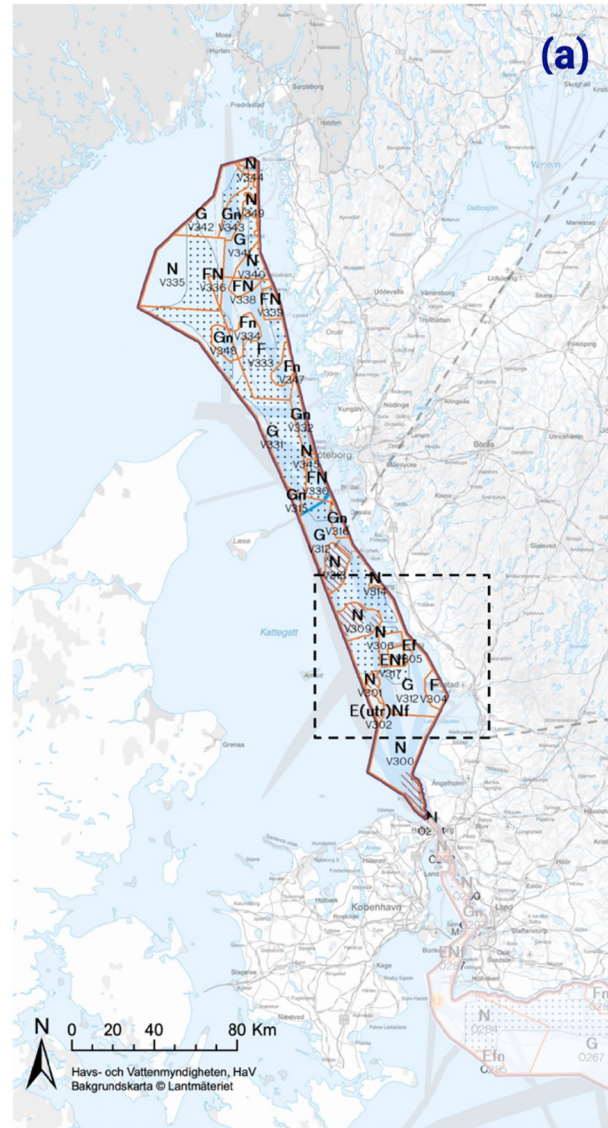
Aquaculture



Shipping



Culture



Solution/Action	Key action and responsible actor
POLITICS & GOVERNANCE:	
Platform for MU	There is an urgent need for a platform/network for marine space users, planners and regulators to communicate , initially organized by a neutral party (e.g. universities or research institutes) and eventually become the responsibility of e.g. HaV
Network for MU	As an interim solution, a mailing list was created and will be hosted by KTH for exchanges amongst actors regarding developments relating to MU and coexistence in Sweden
LEGAL & REGULATORY:	
Licensing solutions for MU	There is a need to streamline licensing processes. All authorities
Municipal veto	The government should explore why municipal vetos are being used to block OWF, mediate dialogues to find workable compromises so government targets can be met
ENVIRONMENT:	
Swedish precautionary principle	The use of a precautionary approach hinders innovation and increases risk of licensing or permitting complications. Better guidelines needed for authorities.
Environmental effects	More research needed to understand long-term environmental impacts (both positive and negative) through monitoring programs



Political
Economic
Social
Technological
Environmental
Legal (or regulatory)

Method

- Phase 1** Literature review and initial stakeholder outreach
- Phase 2** Identified **opportunities/risks** and **benefits/constraints** relating to each Multi Use case and organised these into **PESTEL** themes for each case and a **Master PESTEL** for all cases
- Phase 3** Developed and tested a **structured interview guide** based on the Master PESTEL, and conducted a **stakeholder analysis** for interviewee selection
- Phase 4** Conducted 50+ interviews, transcribed and translated results
- Phase 5** Currently conducting analysis in Nvivo

Manuscript being drafted presenting the thematic analysis of all cases

Thank you!

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