



Climate-smart MSP in Finland

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3 GOALS

- To promote sustainable blue economy.
- To promote sustainable use of marine natural resources.
- To promote good status of the marine environment.

3 PLANNING AREAS

8+1 RESPONSIBLE AUTHORITIES

Coastal Regional Councils and Ministry of Environment.

11 MARITIME THEMES

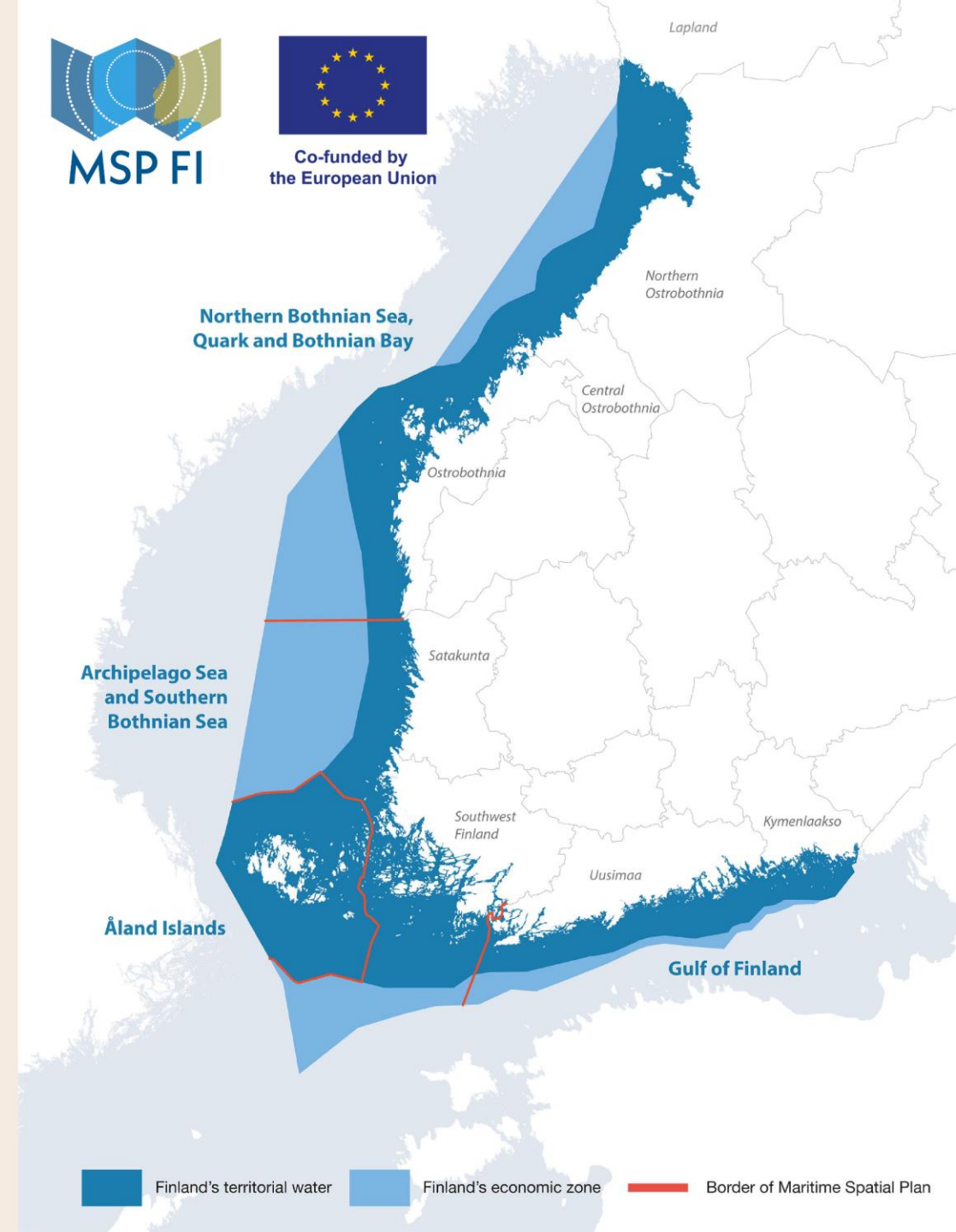
4 OVERARCHING THEMES

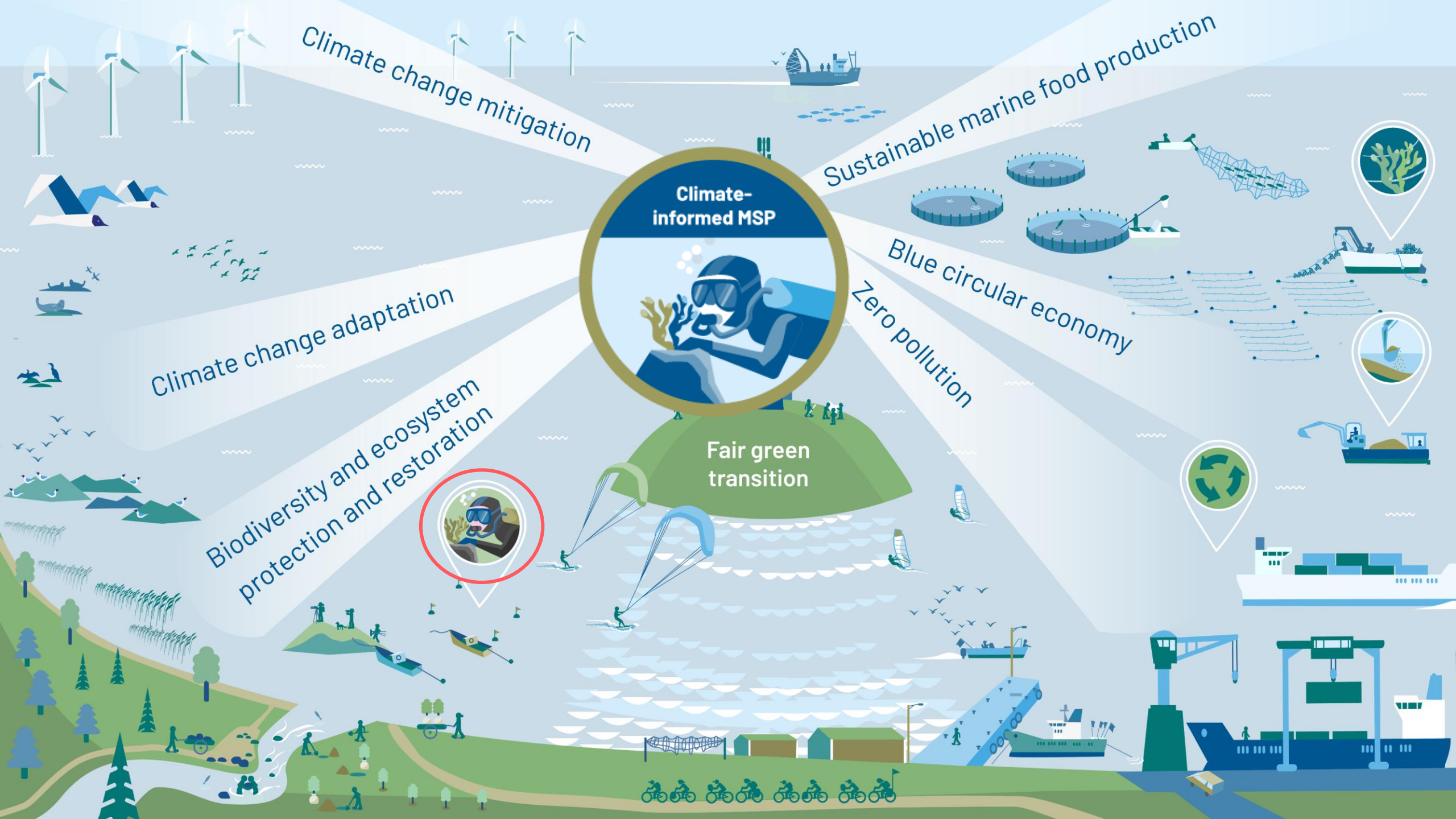
- European Green Deal
- Climate-informed MSP
- Marine multi-use
- Security and security of supply

1 JOINT MARITIME SPATIAL PLAN

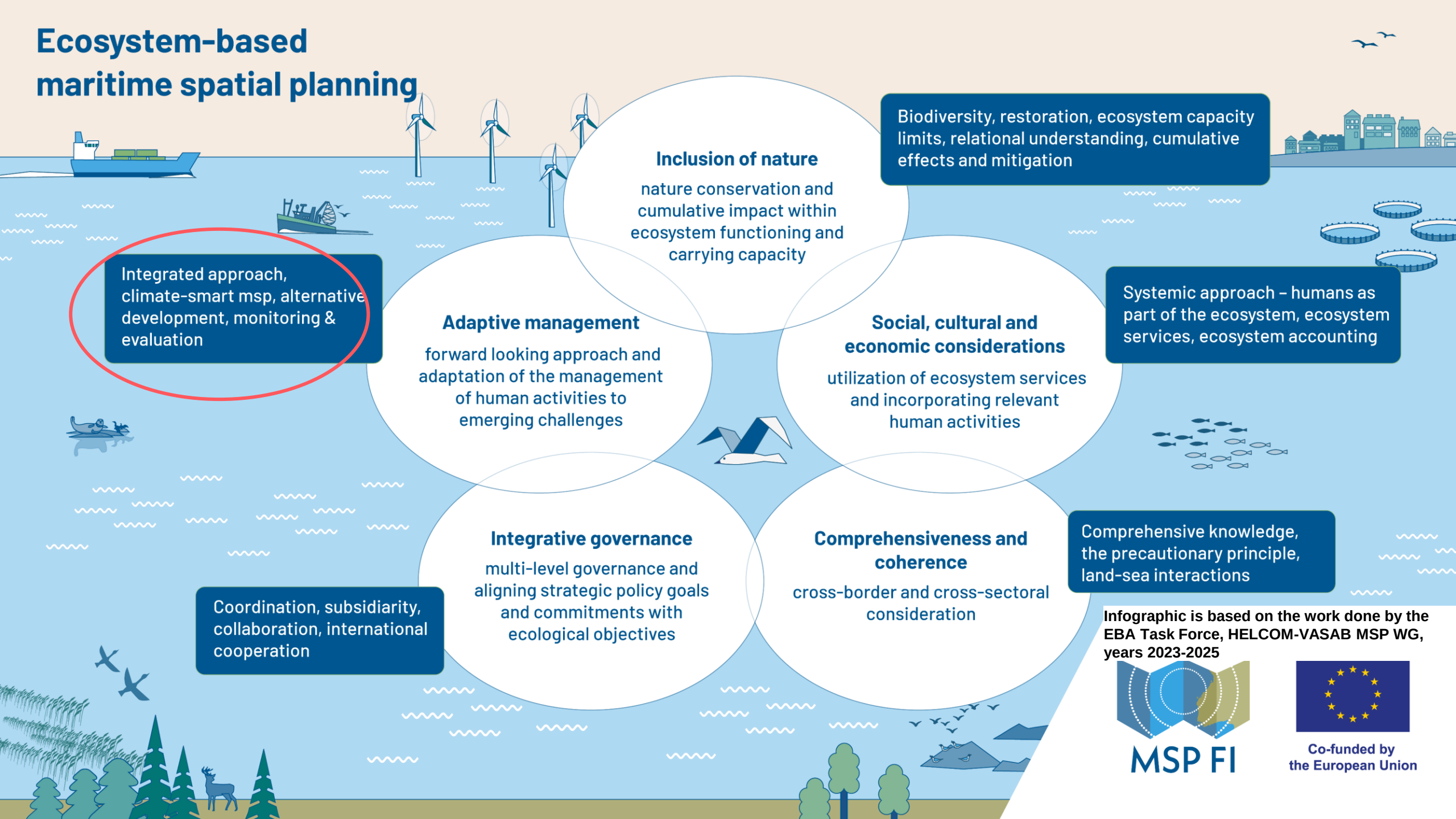


Co-funded by the European Union





Ecosystem-based maritime spatial planning



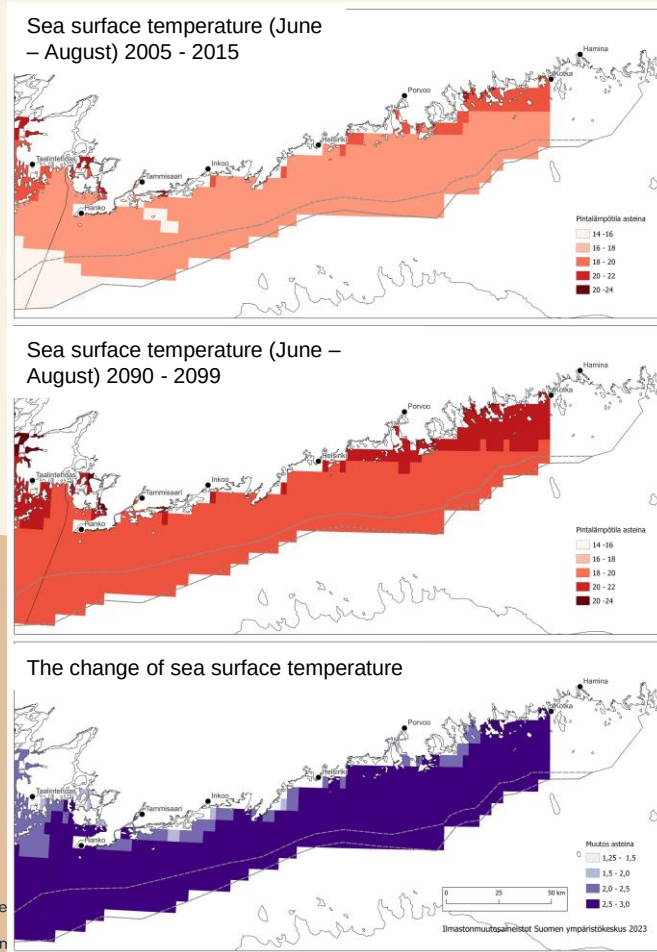
Scenario work to support adaptive planning

	SITUATIONAL PICTURE	SCENARIOS	VISION	PLANNING
MSP 1.0 2017-2021	11 maritime sectors	Alternative developments of certain uncertainties incl. climate change , and their spatial effect on maritime sectors.	Maritime sectors chose their future, built their visions for marine use, and created roadmaps to 2030.	The role of MSP to support the sectors' visions and visualize them on a map.
MSP 2.0 2022-2027	An up-to-date and comprehensive situational picture of the security of supply and overall security in Finland's sea areas.	Alternative future scenarios for the maritime area from the perspective of security of supply and safety. Climate change is considered as one of the major threats.	Comprehensive security vision for the marine area.	The role of MSP and plan in supporting the territorial and spatial resilience and in achieving the comprehensive security vision for the marine area.



Modeling the impacts of climate change

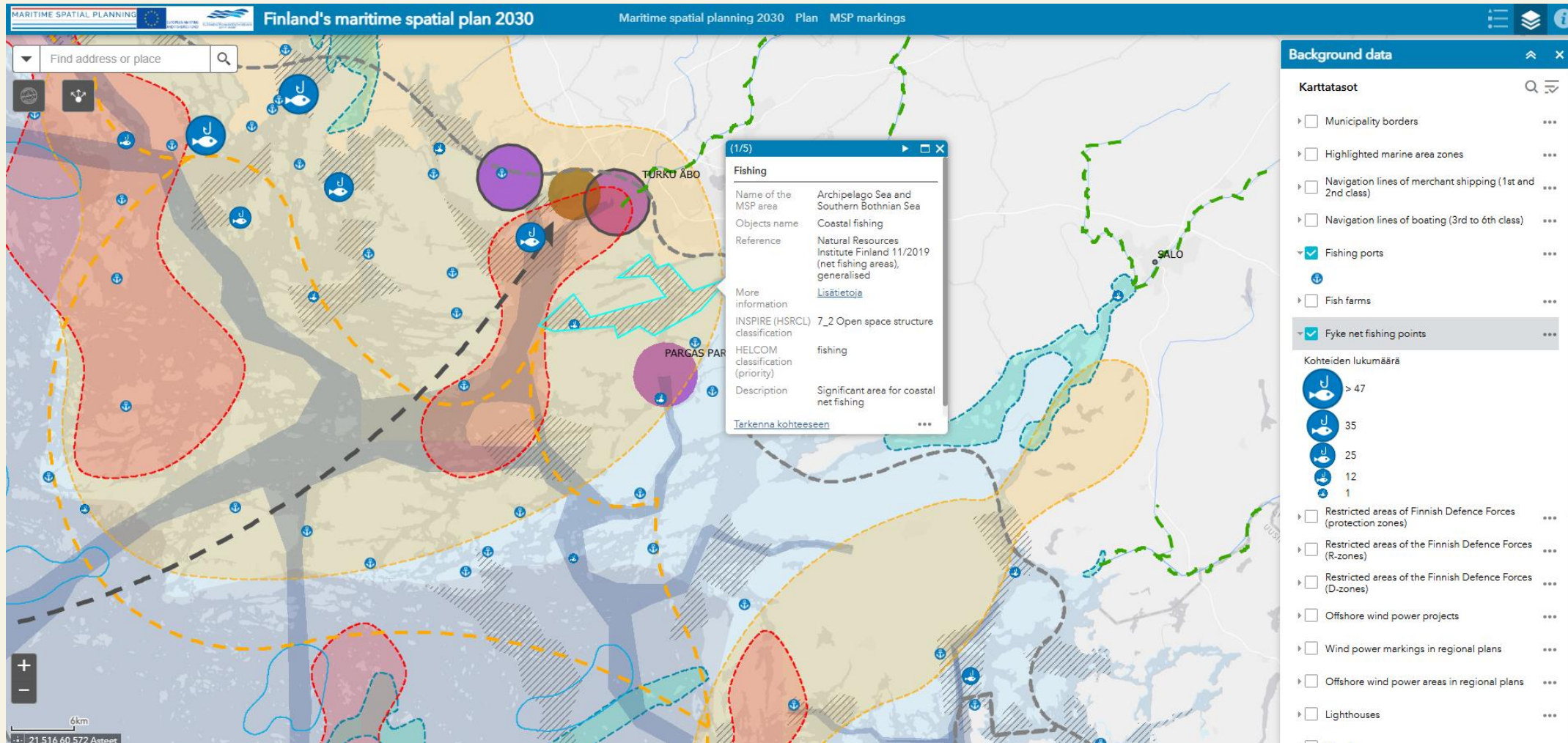
(on fish stocks and commercial fisheries)



?



MSP's potential to support sectors' needs in adapting to CC: To show the future potential of fisheries, rather than only indicating significant fishing areas on a map



VELMU, EMMA, ESPA CC-Refugias

VELMU – The Finnish Inventory Programme for the Underwater Marine Environment (2004–)

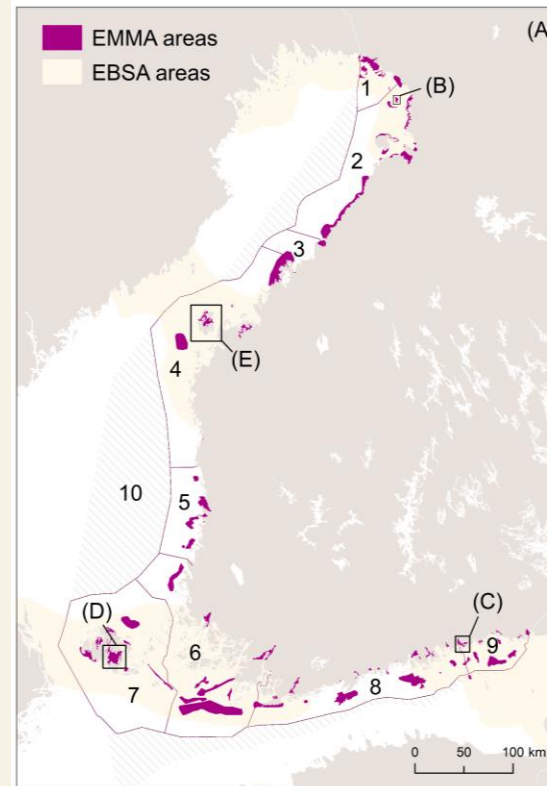
>180 000 underwater observation points

ECOLOGICALLY SIGNIFICANT MARINE UNDERWATER AREAS
– A criteria of EBSA were applied and a total of 87 **EMMA**s were identified¹

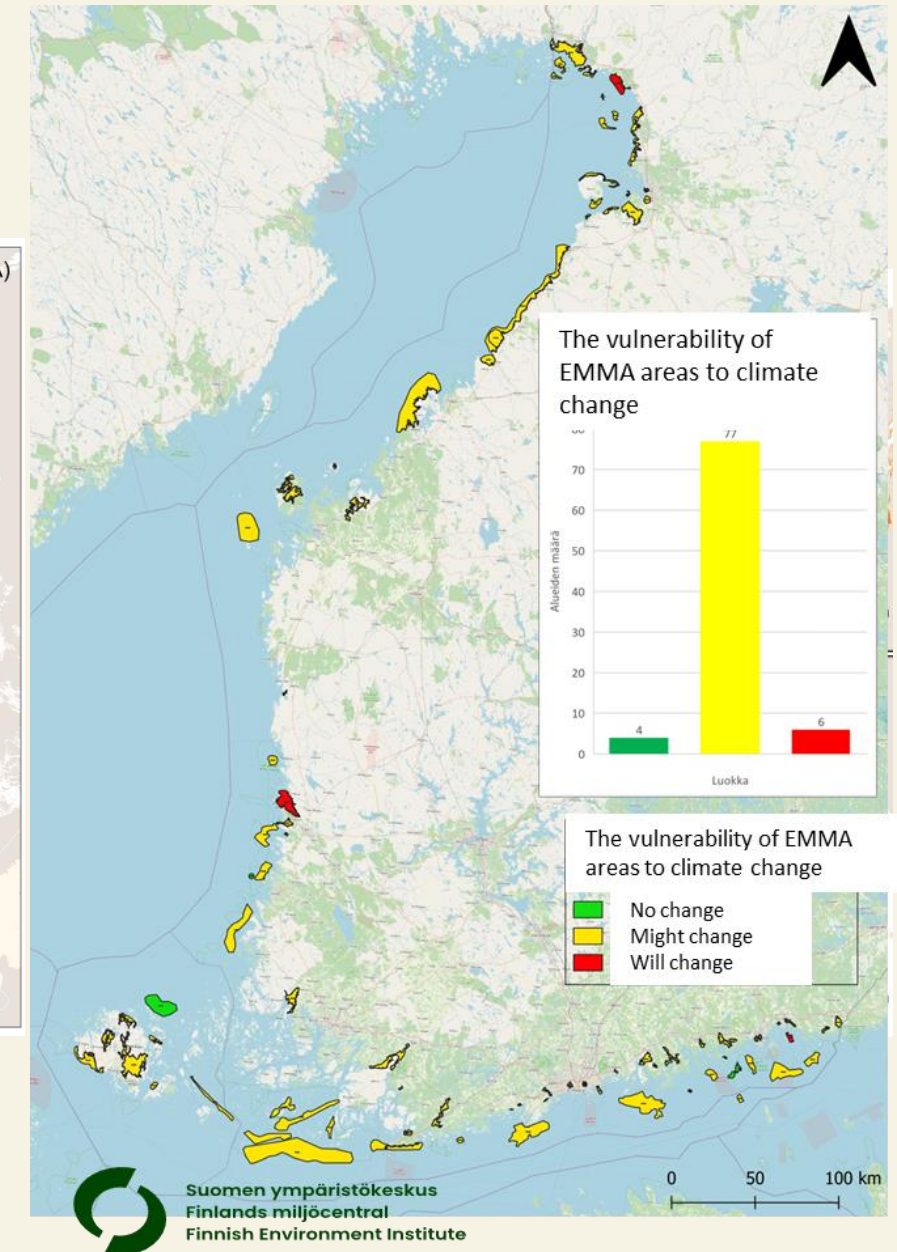
ZONATION ANALYSIS to identify the high nature value areas

Ideal
100 %
0 %

Virtanen et al. (2018) Evaluation, gap analysis, and potential Expansion of the Finnish marine protected area network, front. Mar. Sci. 5, <https://doi.org/10.3389/fmars.2018.00402>



Kuismanen et al. (2023) Identifying ecologically valuable marine areas to support conservation and spatial planning at scales relevant for decision making. Marine Policy, 158. <https://doi.org/10.1016/j.marpol.2023.105890>



CC vulnerable and stable EMMA areas (Syke 2024, unpublished)

To sum up climate-smart MSP

...or MSP in general

CHALLENGES

- Resource-intensive planning
- The scale of the data does not match planning purposes
- The planner's dilemma – when you choose one option, the unchosen one still exists

SOLUTIONS

- Plan for the future.
- Make conflict OK!
- A planning solution co-designed with stakeholders, integrating their respective interests and utilizing the best available knowledge.



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