BLUE MISSION BANOS

1st MISSION ARENA
14-16 November 2023 | Gothenburg, SE

Coexistence of offshore wind power with commercial fishing, aquaculture and nature conservation

A synthesis of knowledge about preconditions and measures

THEME: **Co-existence of activities**

#MissionArenaBANOS1

EU MISSIONS RESTORE OUR OCEAN & WATERS

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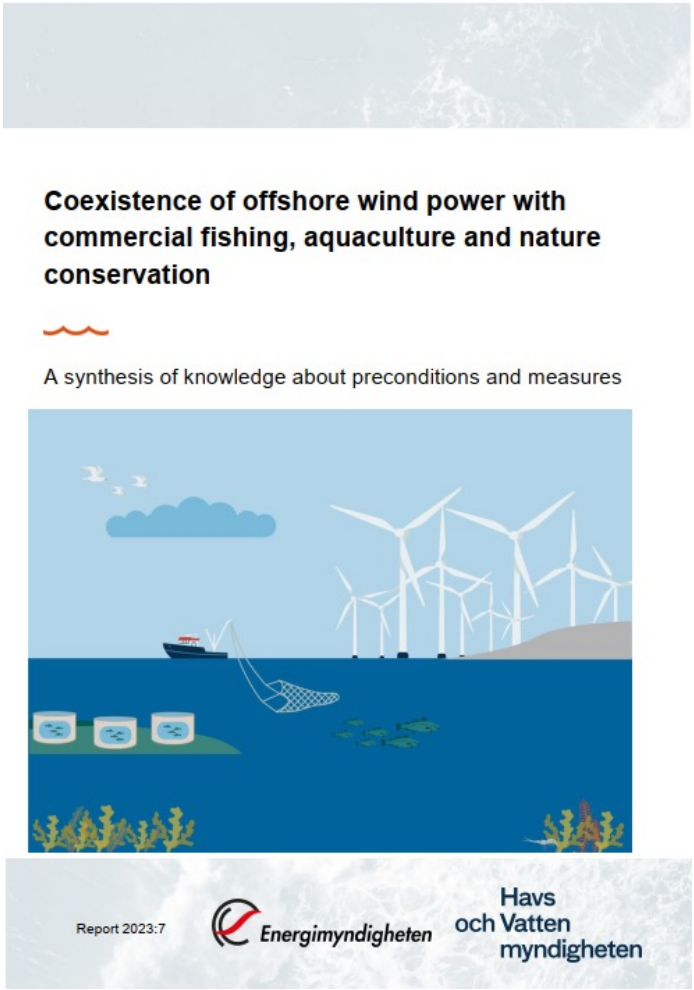
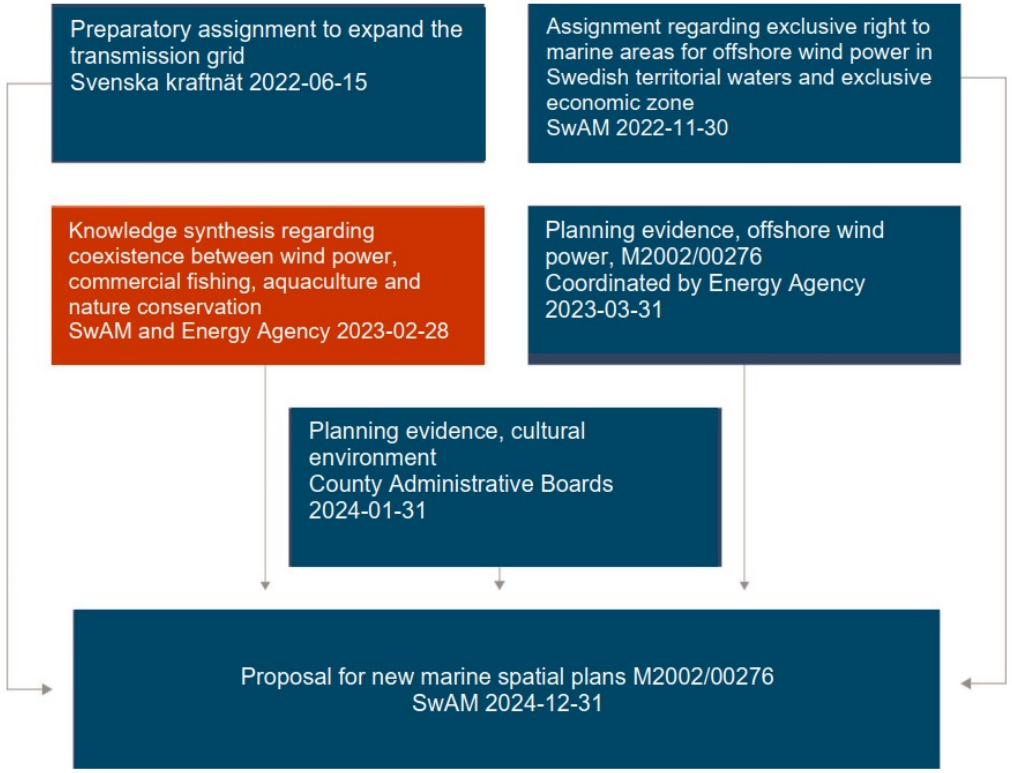
Background





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Offshore wind in Sweden

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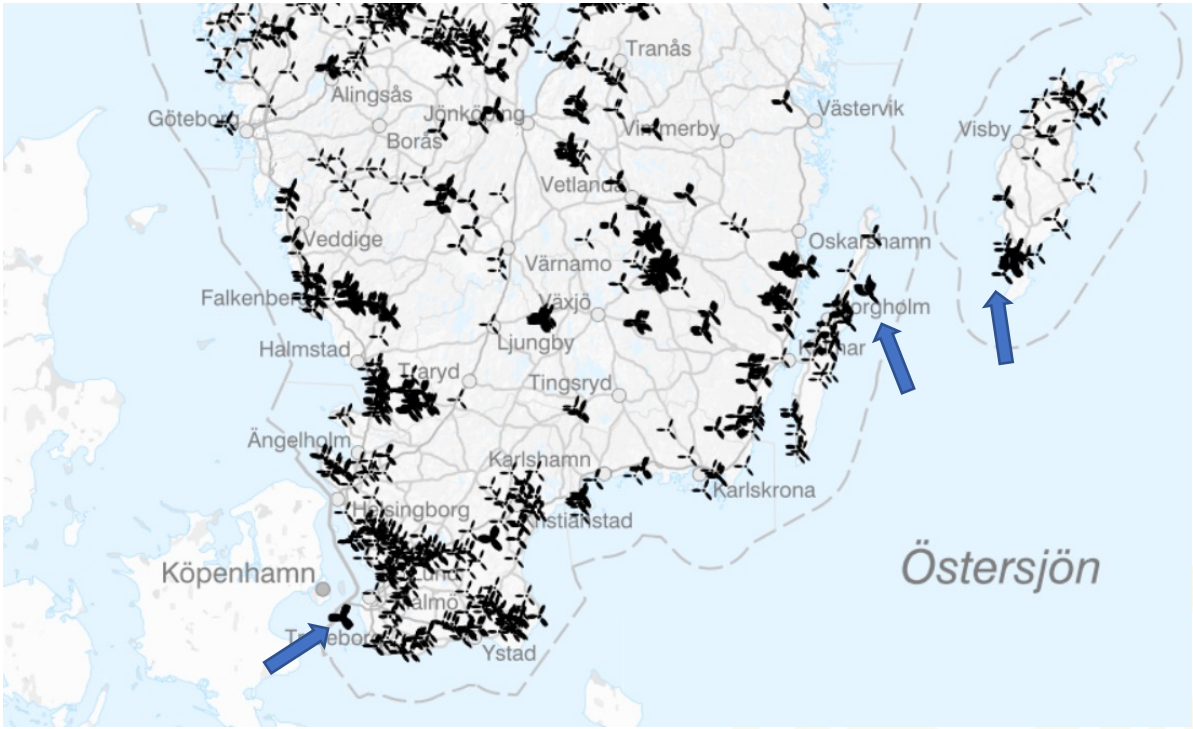
Offshore wind power

- Few active sites in Swedish waters
- Increased need for production
- Open door system



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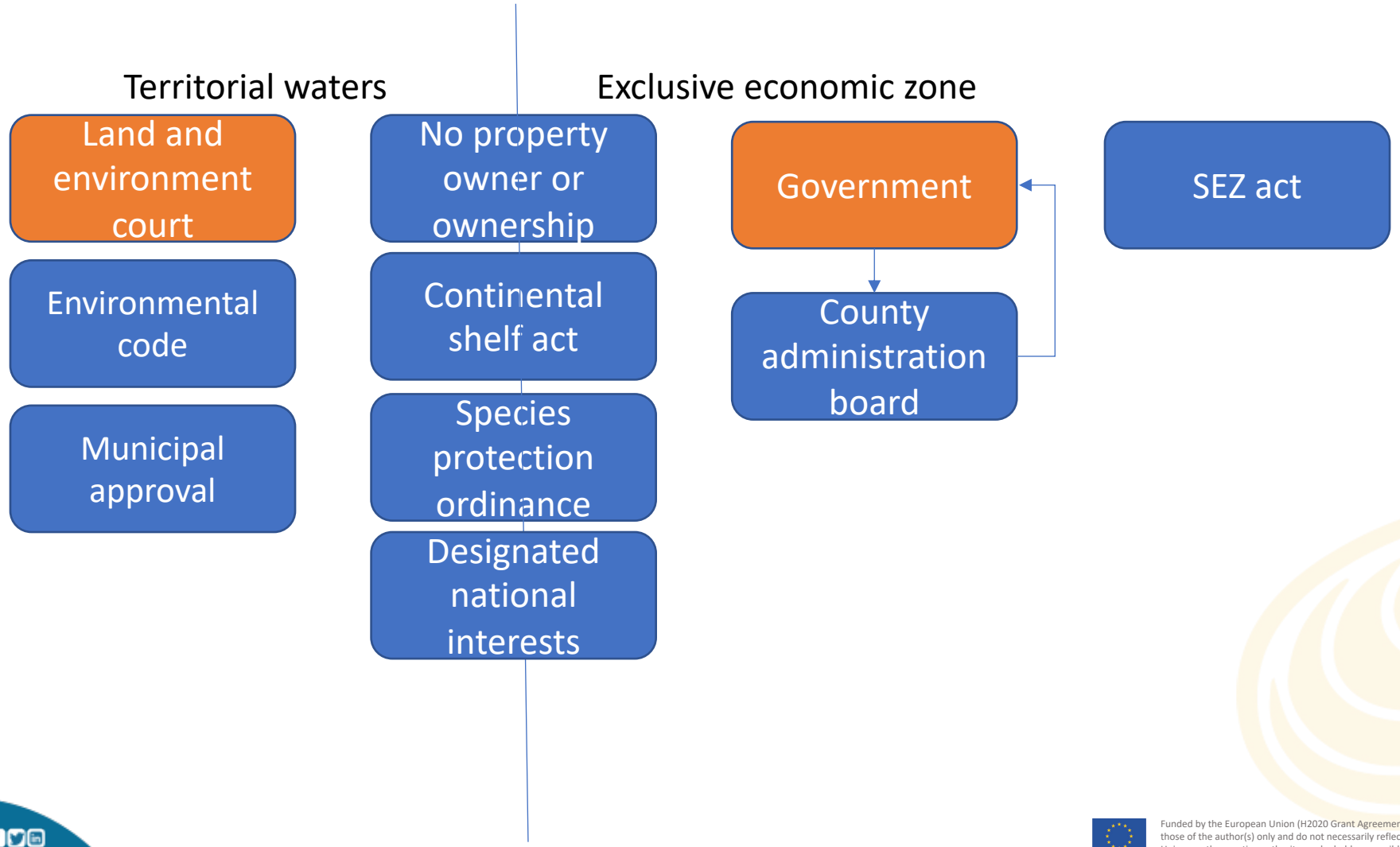
Regulatory framework



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Offshore wind and commercial fishing

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Coexistence with commercial fishing

- Fishing method – active/passive demersal/pelagic
- Floating or bottom-fixed
- Outdated knowledge
- Economic uncertainties
- Navigational risks

Photo: Jan-Eric Johansson

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Navigational risks and insurance

- Need for a quantitative analysis of navigational risks
- Insurance for fisheries and wind farms

Photo: Fredrik T Lindgren

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Offshore wind and aquaculture

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Coexistence with aquaculture

- Large theoretical potential
- No active facilities or license requests for offshore aquaculture in Swedish waters
- Challenges
  - Technology
  - Operation
  - Safety
  - Regulations
  - Financing
  - Insurance

Photo: Pernilla Johansson

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Offshore wind and nature conservation

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Coexistence with nature conservation

- Regulatory framework
- Environmental impacts and site-specific effects
- Environmental monitoring

Foto: Martin Almqvist/AzoteLibrary

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Nature inclusive design

- Aiming to add a positive element to environmental impact
- Clarify the assessment and environmental effects

Foto: https://www.derijkenoordzee.nl/en/news/innovation-for-restoring-oyster-reefs-installed-in-luchterduinen-wind-farm

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Multi-use in marine spatial planning

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Marine spatial planning

- New plans in public consultation
- Government task of 90 additional TWh
  - Feb 2022 – Dec 2024
- Another round of public consultation May – Aug 2024
- ESPOO-consultation 2023-24

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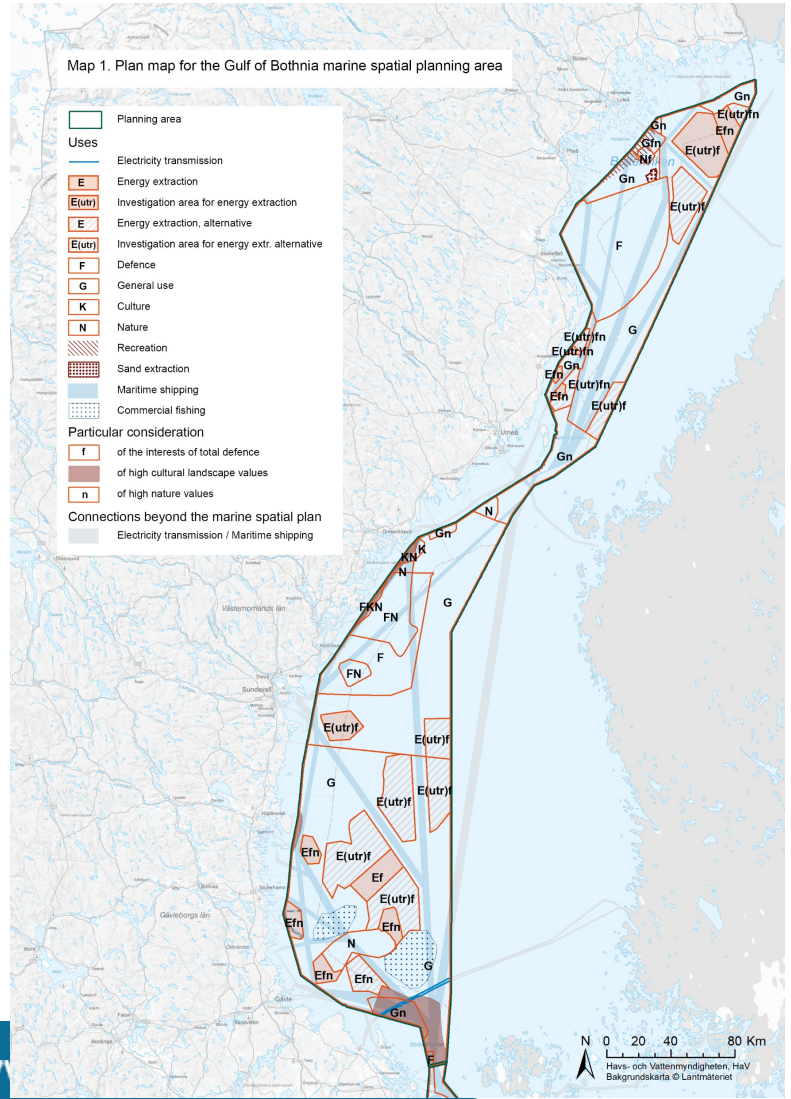
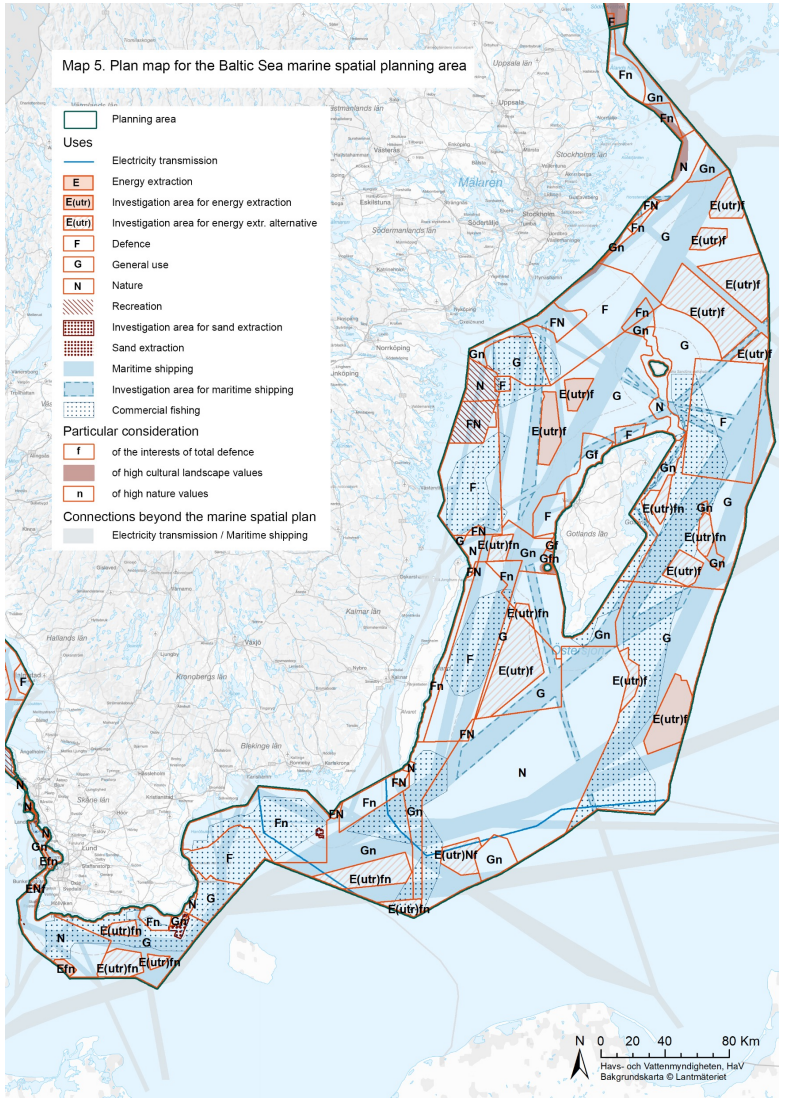
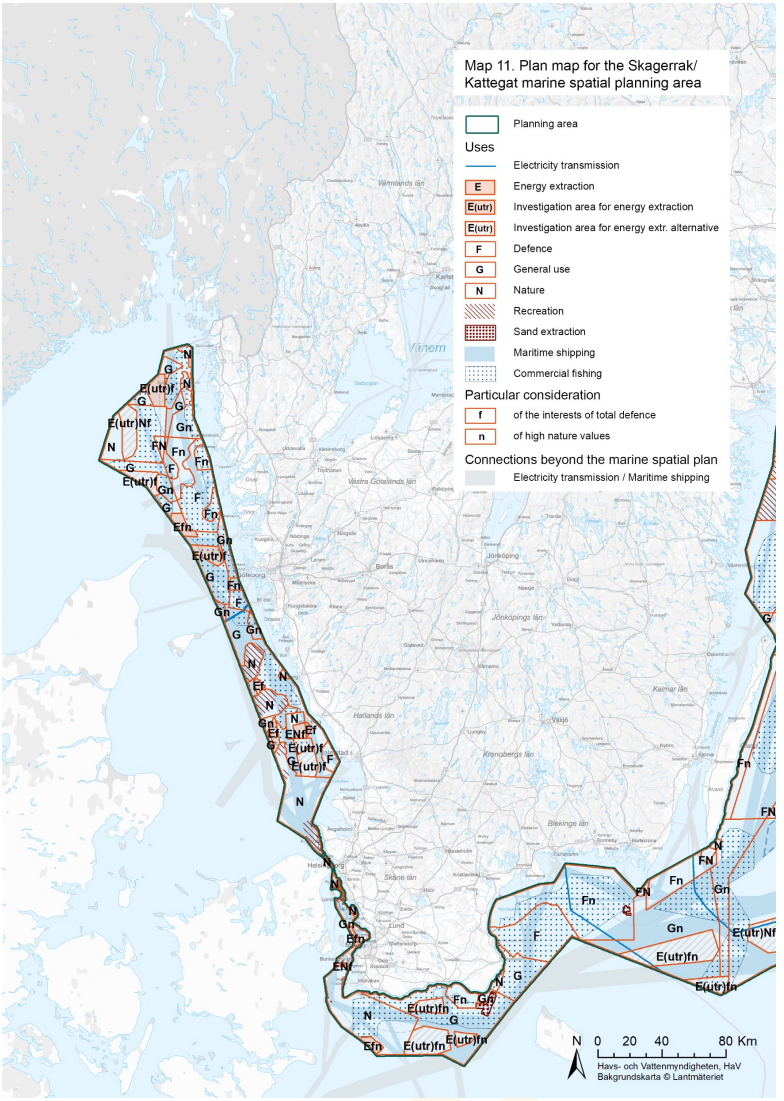
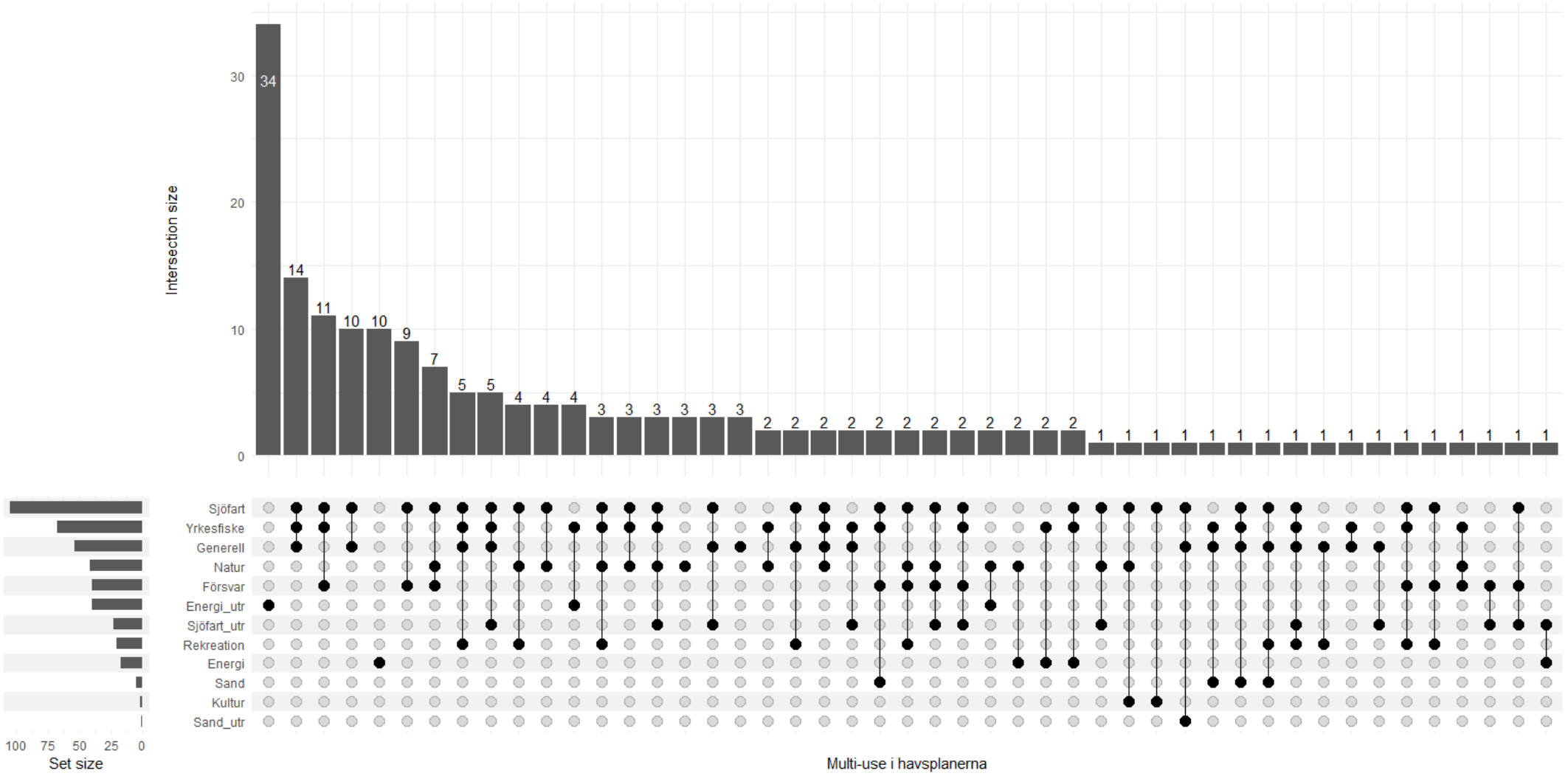
Marine spatial planning







Multi-use planning



Conclusion

- OWF and commercial fishing – difficult due to safety and economic risks
- OWF and aquaculture – regulatory and economic hurdles
- OWF and nature conservation – case by case basis. Environmental monitoring.
  - OECM's – other effective areabased conservation measures
  - Nature inclusive designs
- Cooperation and dialogue between sectors – with or without mediators
- Holistic management
- Ecologic, economic, social sustainability

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