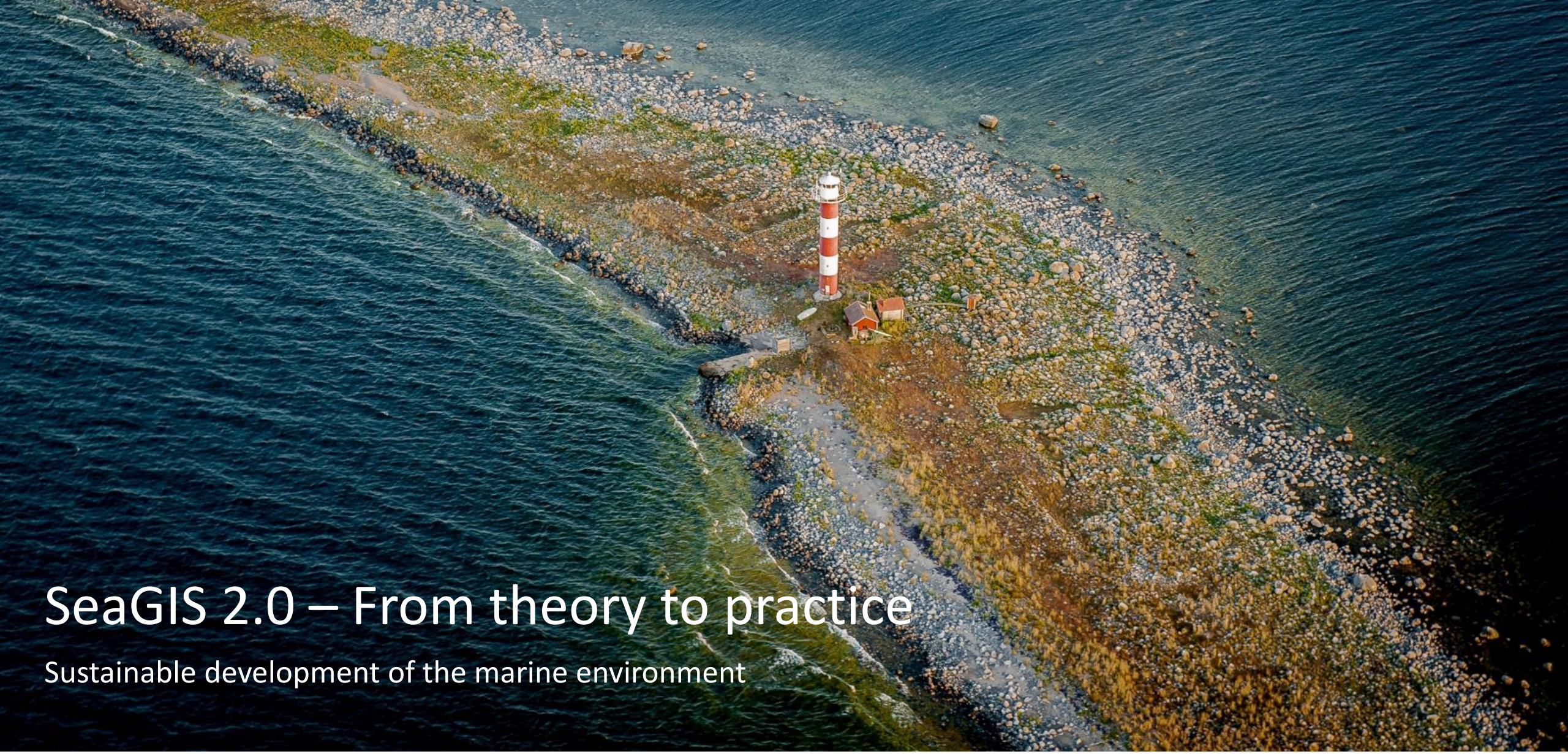

SeaGIS 2.0 – From theory to practice

Sustainable development of the marine environment

Johnny Berglund, Project manager, County Administrative Board of Västerbotten

Smart Sea Seminar 18.09.18, Future of the Gulf of Bothnia

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Europeiska regionala utvecklingsfonden

SeaGIS 2.o - Support for ecosystem based planning of the marine environment using GIS

Cooperation between Swedish and Finish authorities in the Northern Quark area

2015-2018

Länsstyrelsen Västerbotten

Länsstyrelsen Västernorrland

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Österbottens förbund
Pohjanmaan liitto

KESKI-POHJANMAAN LIITTO
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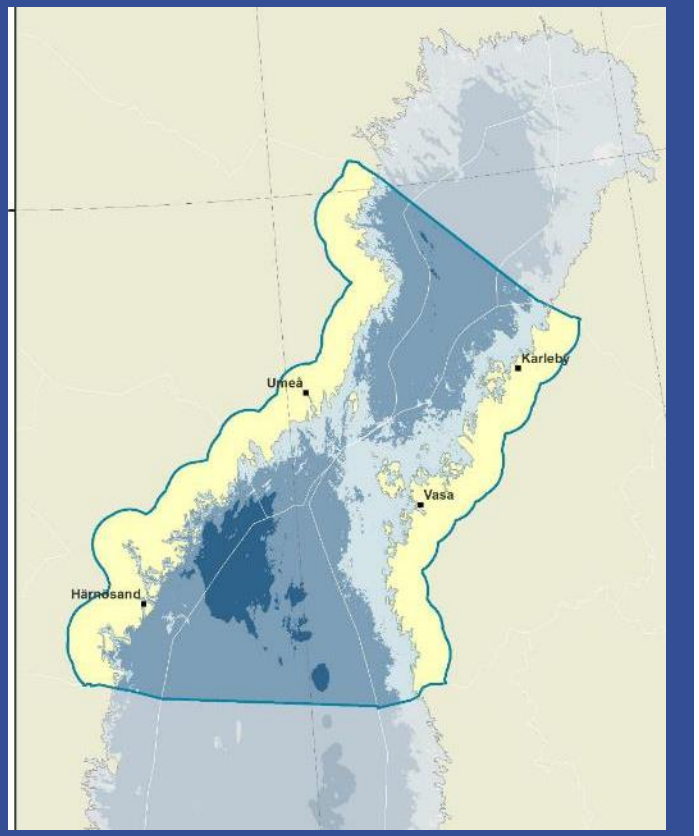
Cross-border solutions for integrated maritime governance

Activities

1. MSP data and participation
2. Regional goals for Blue Growth
3. State of the environment – Nature conservation
4. Ecosystem services
5. Cooperation - Oil spill protection
6. Establishment of the map service



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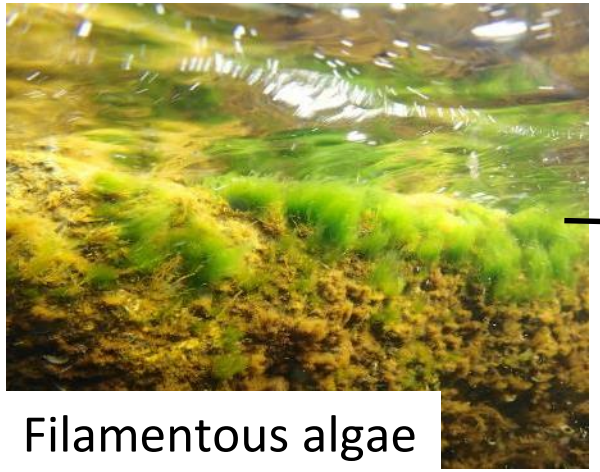
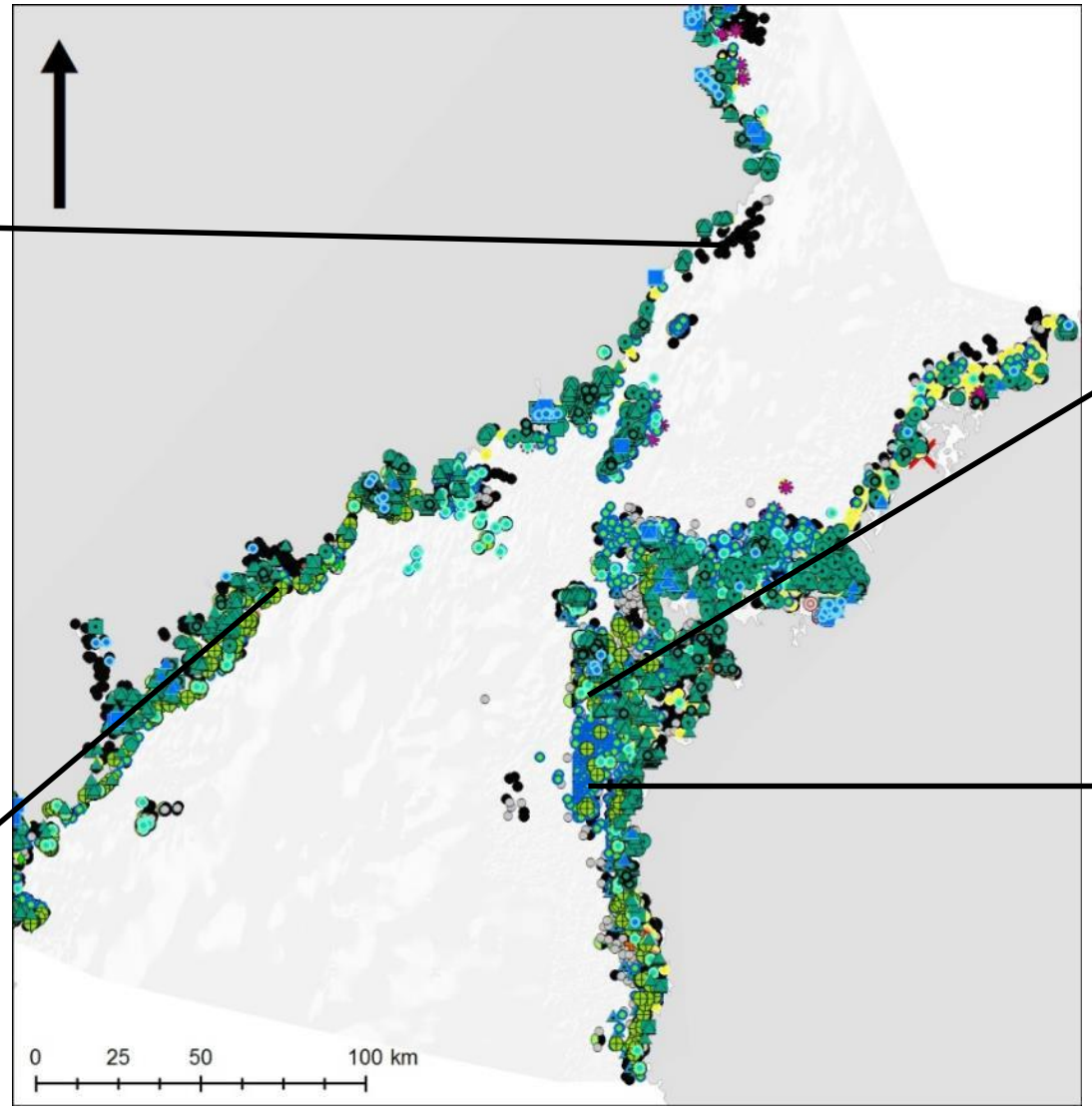
HELCOM Underwater Biotop modelling

30 000 observations classified into HUB



Filamentous algae



Bladderwrack beds

Bluemussel beds

Reeds

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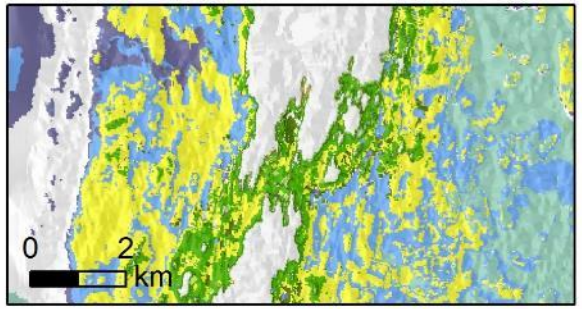
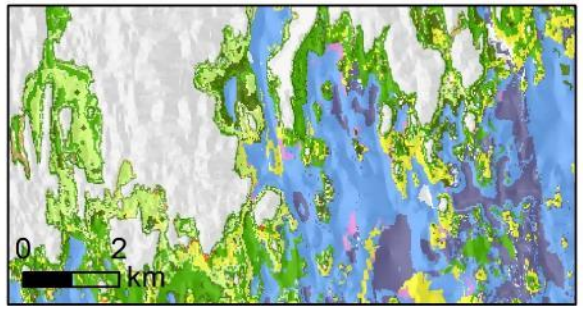
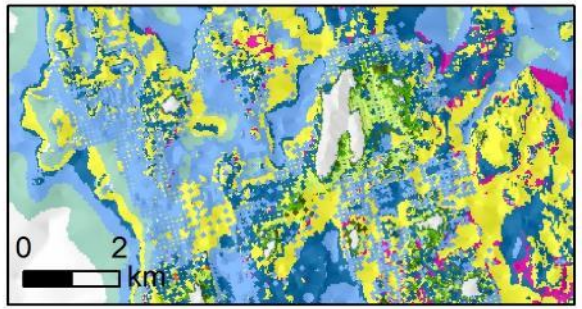
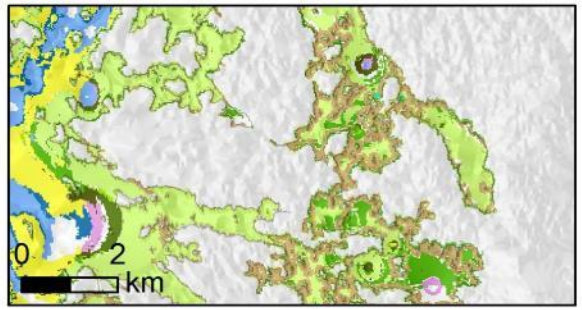
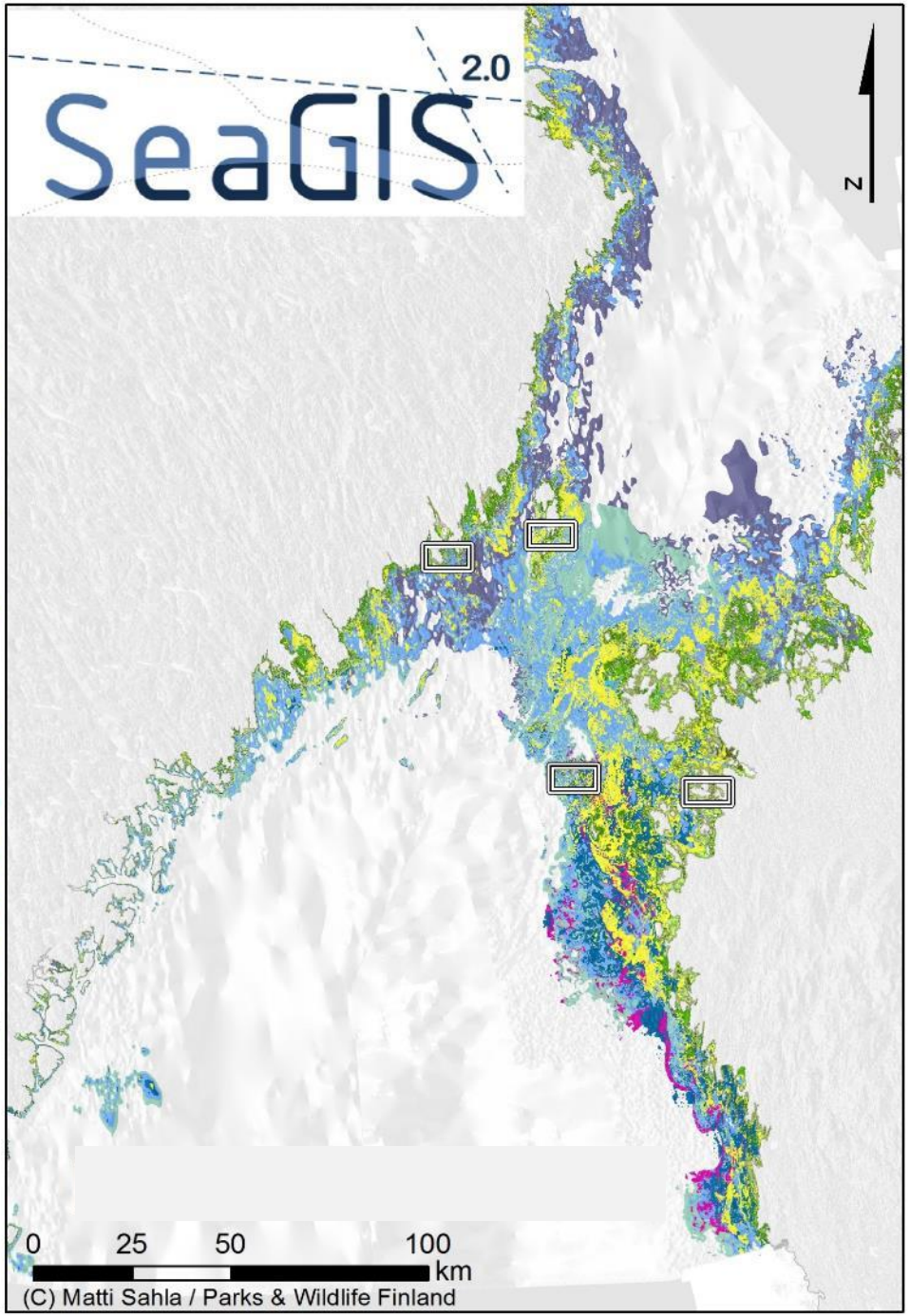








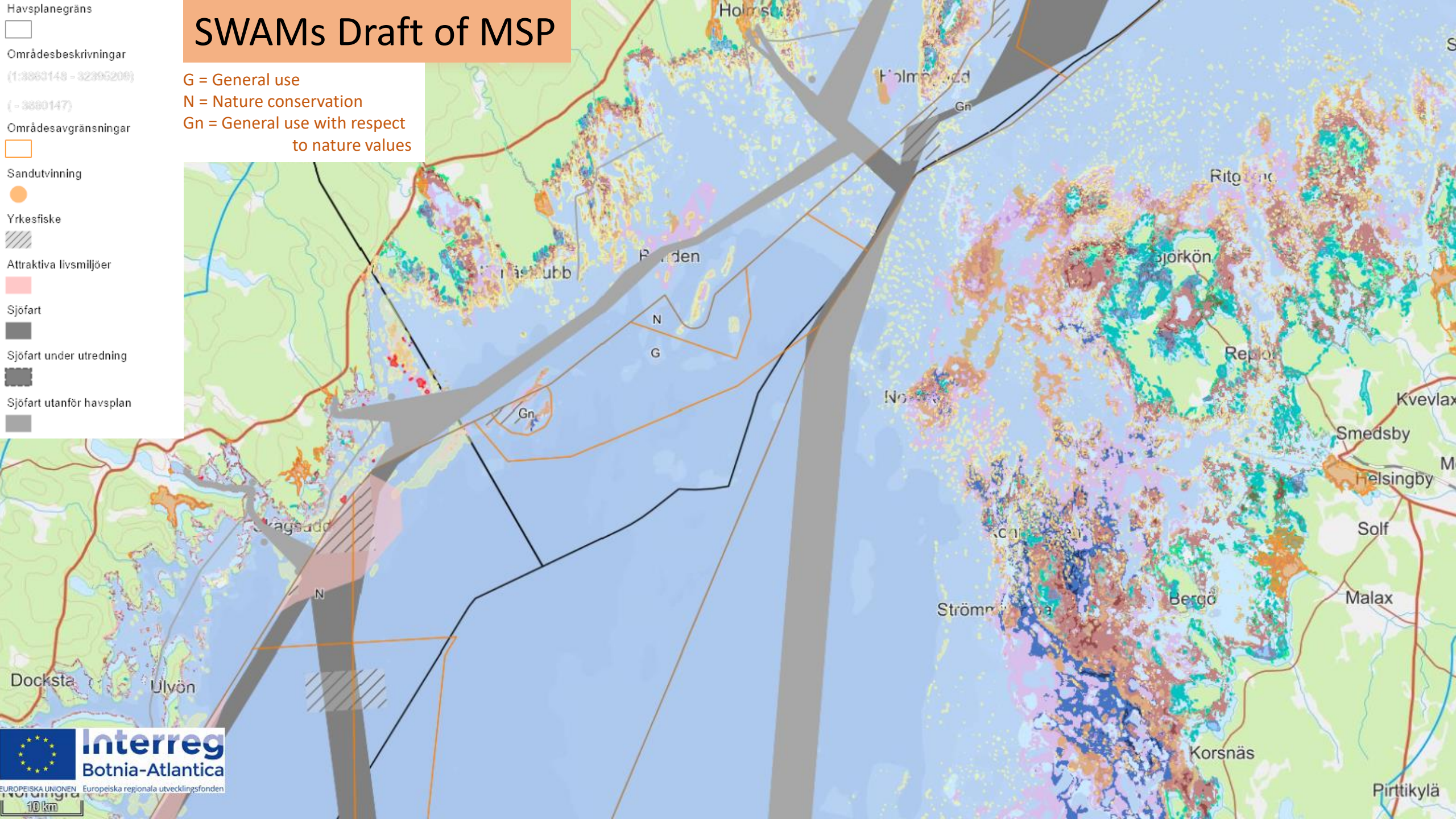


HUB Biotopes

- A1 Phragmites austalis
- A2 Cyperaceae
- B1 Potamogeton perf etc
- B2 Zannichelia etc
- B3 Myriophyllum
- B4 Charales
- B5 Najas marina
- B6 Ranunculus
- C1 Fucus
- C2 Non-fil cort red algae
- C3 Foliose red algae
- C5 Filamentous algae
- D Water Moss
- E1 Mytilidae
- G1 Hydrozoa
- H Epibenthic moss animals
- I1 Balanidae
- J Epibenthic sponges
- L6 Unionidae
- R Soft crustose algae
- S1 Filamentous annual algae
- S2 Chorda filum etc
- S3 Vaucheria

SWAMs Draft of MSP

G = General use
N = Nature conservation
Gn = General use with respect to nature values



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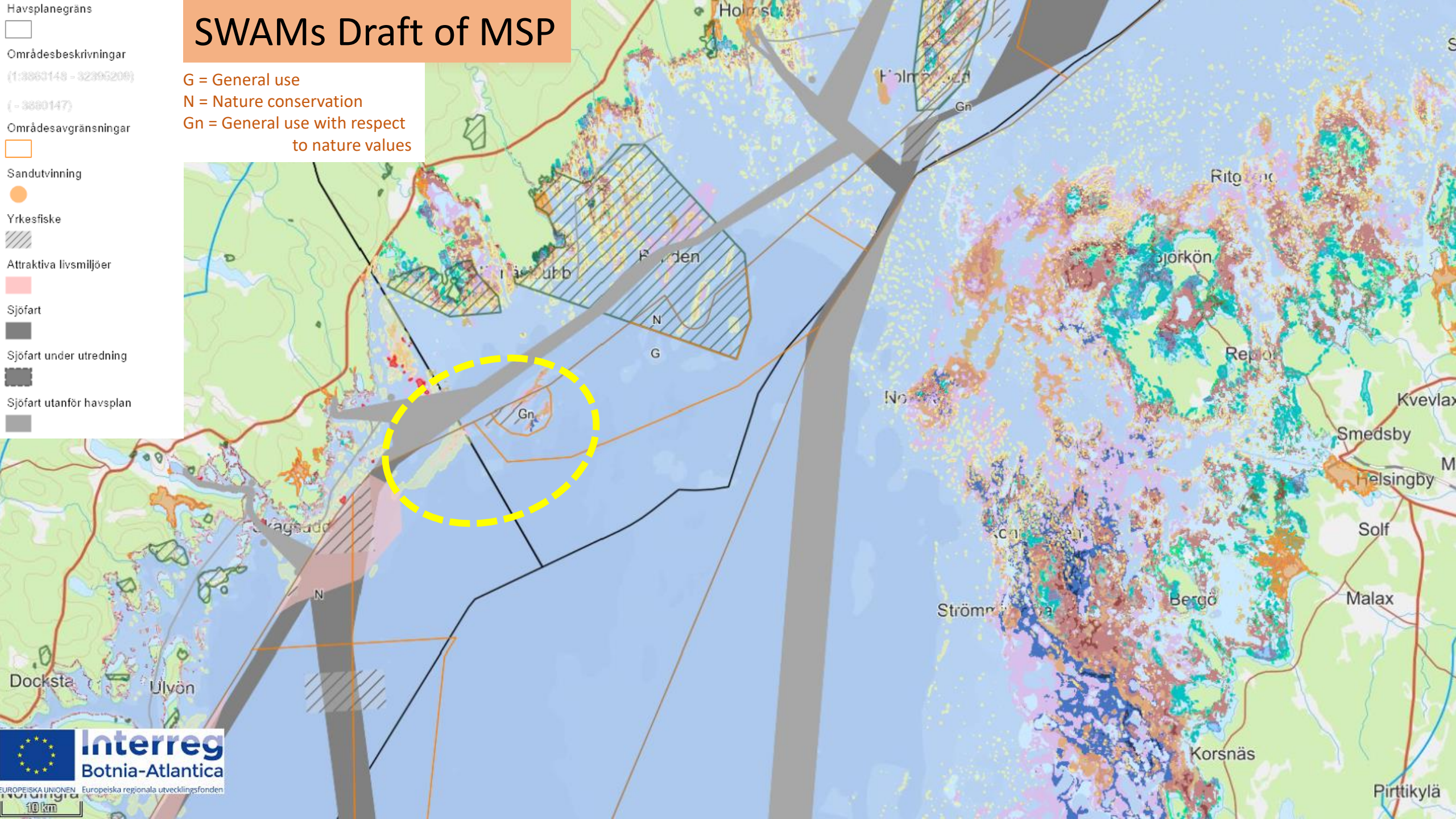

SWAMs Draft of MSP

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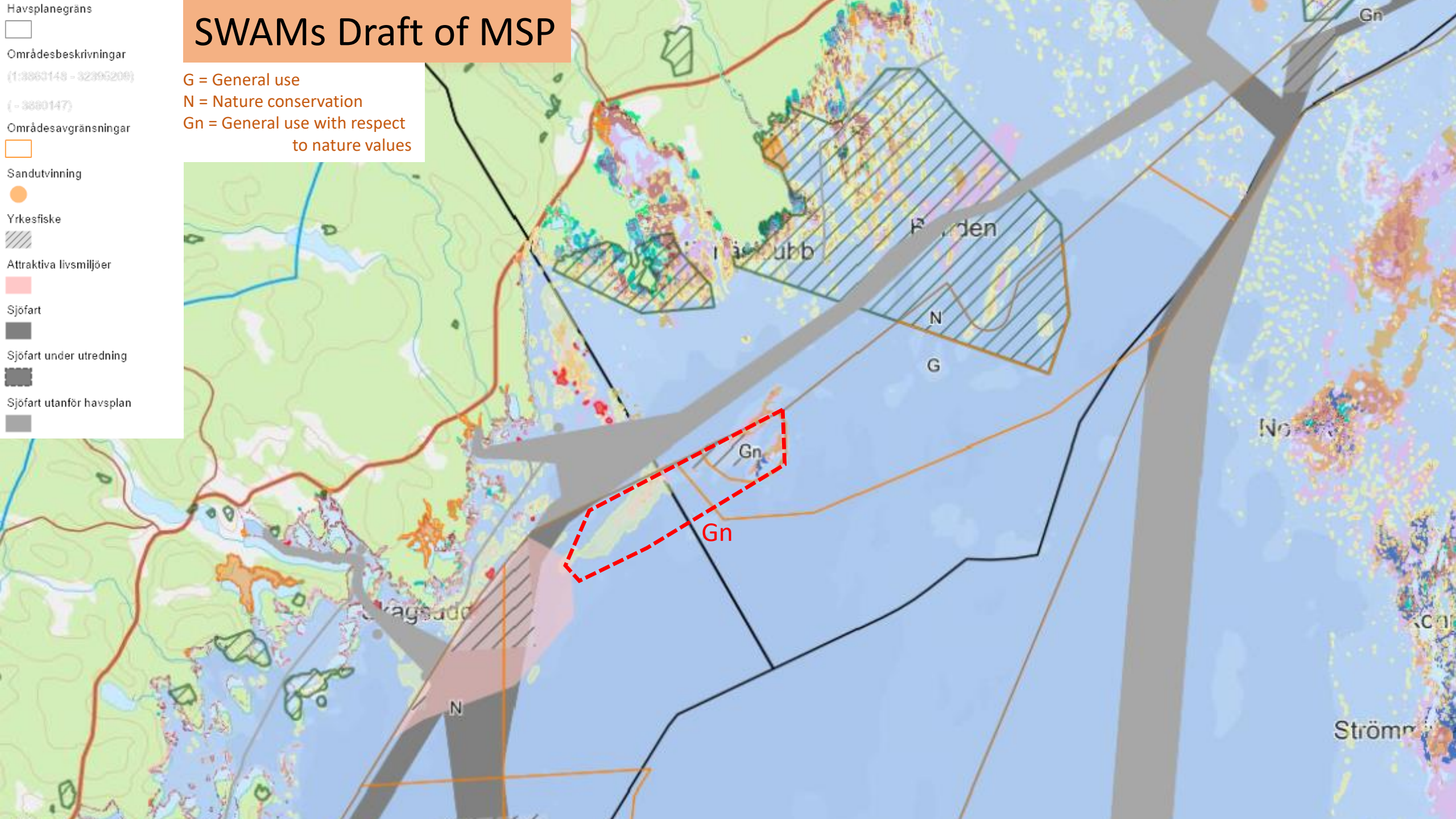
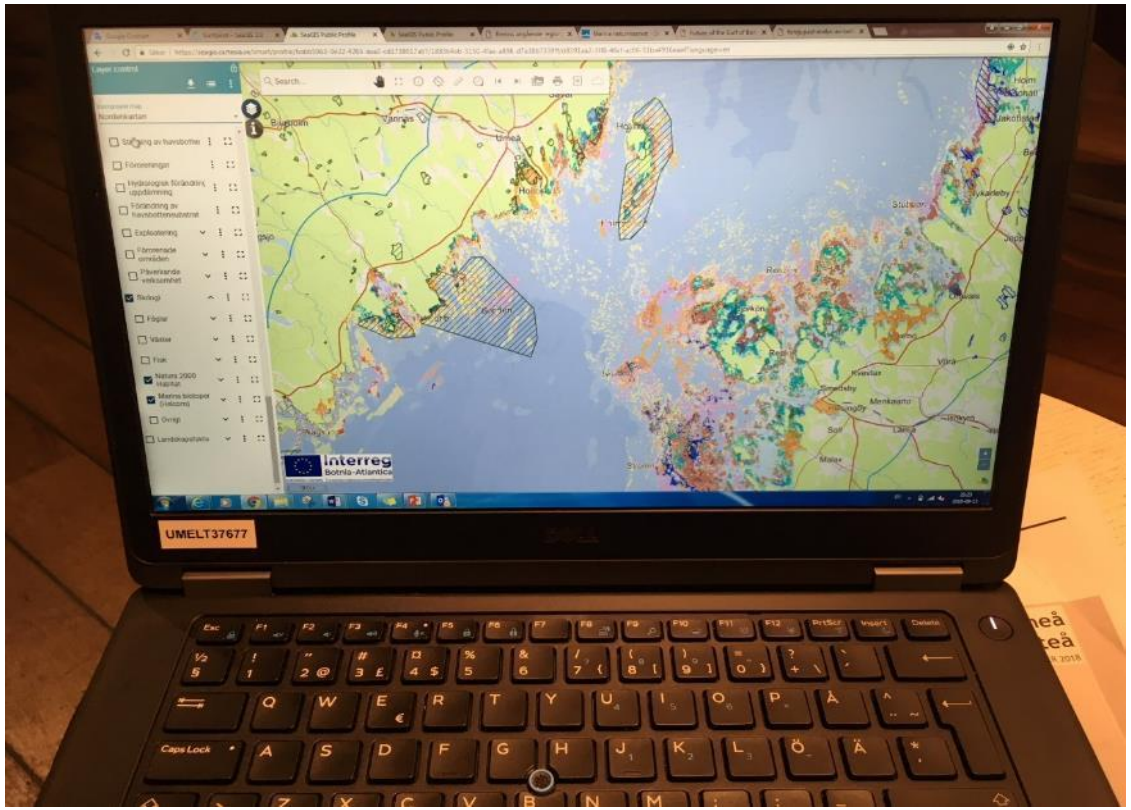


SeaGIS map service

- Library of maps for the sea and coastal zone
- Harmonized symbology between corresponding FI-SE data
- Open and accessible, even in mobile devices
- And much more …



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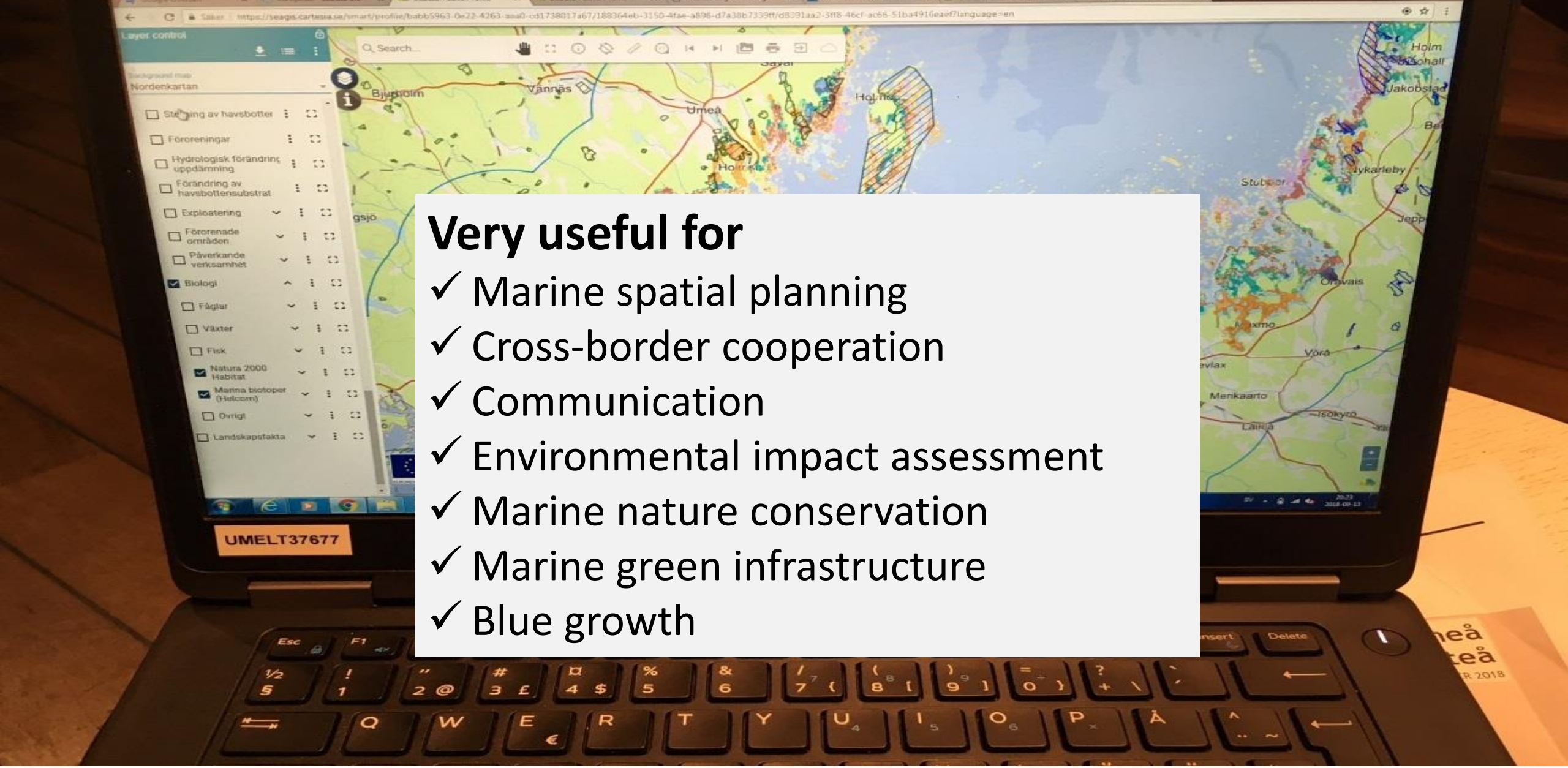

Very useful for

- ✓ Marine spatial planning
- ✓ Cross-border cooperation
- ✓ Communication
- ✓ Environmental impact assessment
- ✓ Marine nature conservation
- ✓ Marine green infrastructure
- ✓ Blue growth

What about blue growth?

Activities within the project:

- ✓SeaGIS 2.0 has examined existing national and regional plans and strategies

- ✓SeaGIS 2.0 has conducted a series of recurring workshops and interviews

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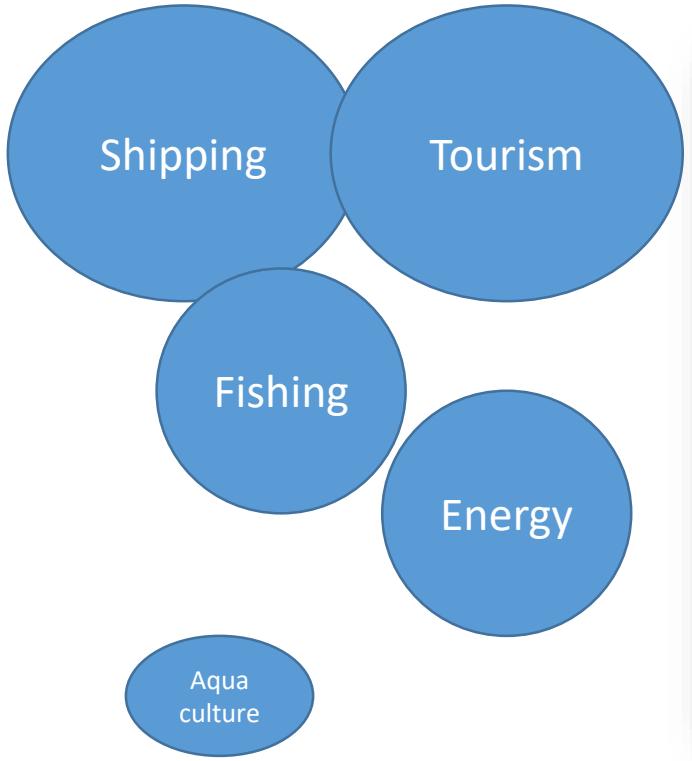
Themes:

1. Fishing and aquaculture
2. Shipping and infrastructure
3. Energy (mainly wind power)
4. Coastal tourism
5. Recreation and nature conservation

(6. Island communities)



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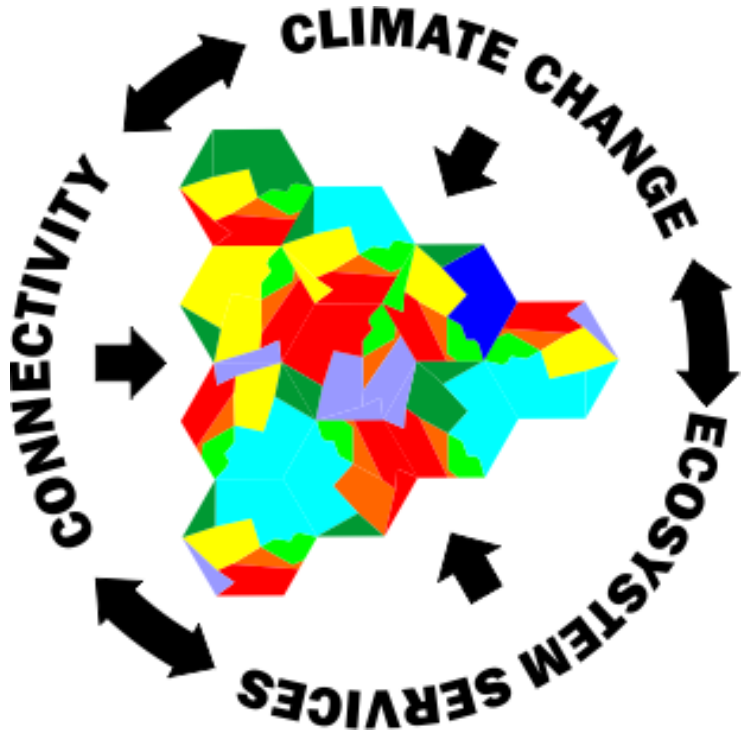

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2018-2021

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Thank you for listening!

Johnny Berglund

Project manager SeaGIS 2.0

County Administrative Board of Västerbotten

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