





SeaGIS 1 + 2.o - Support for ecosystem based planning of the marine environment using GIS





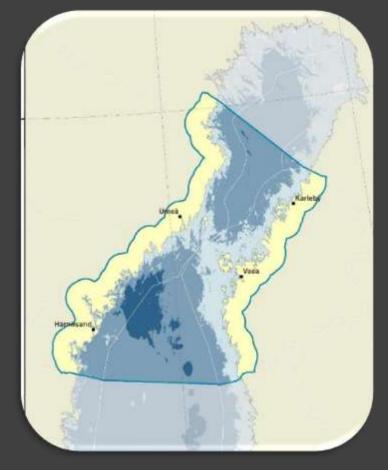




Cross-border solutions for integrated maritime governance

Activities in SeaGIS 2.0

- 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





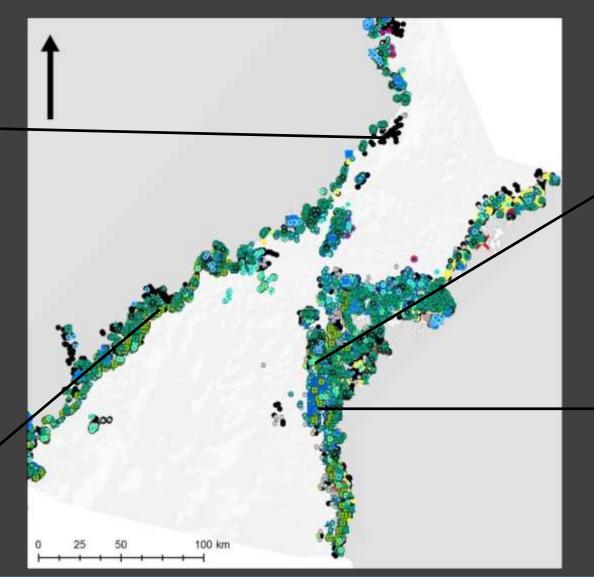


HELCOM Underwater Biotop modelling

30 000 observations classified into HUB





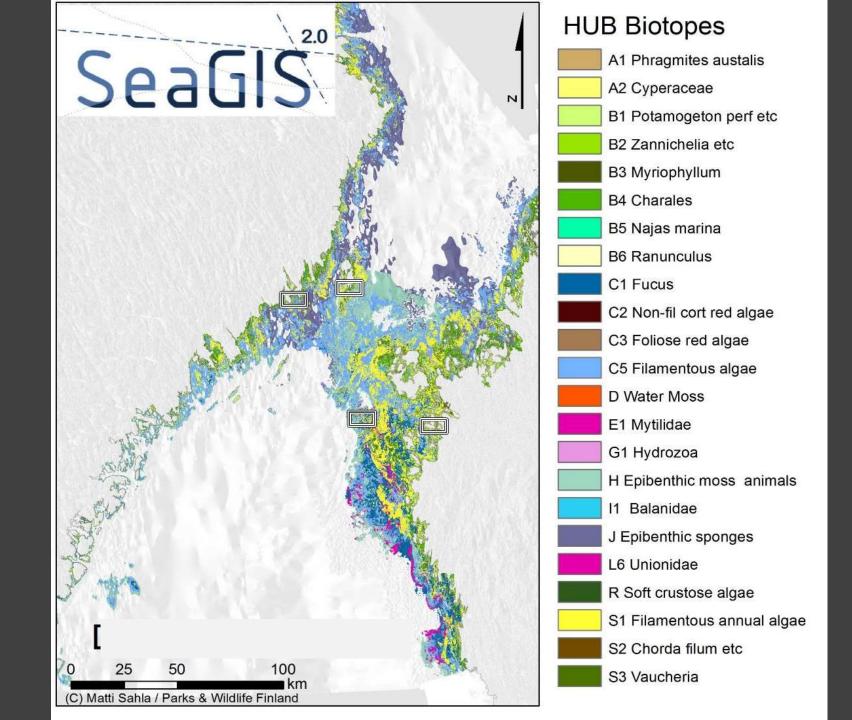


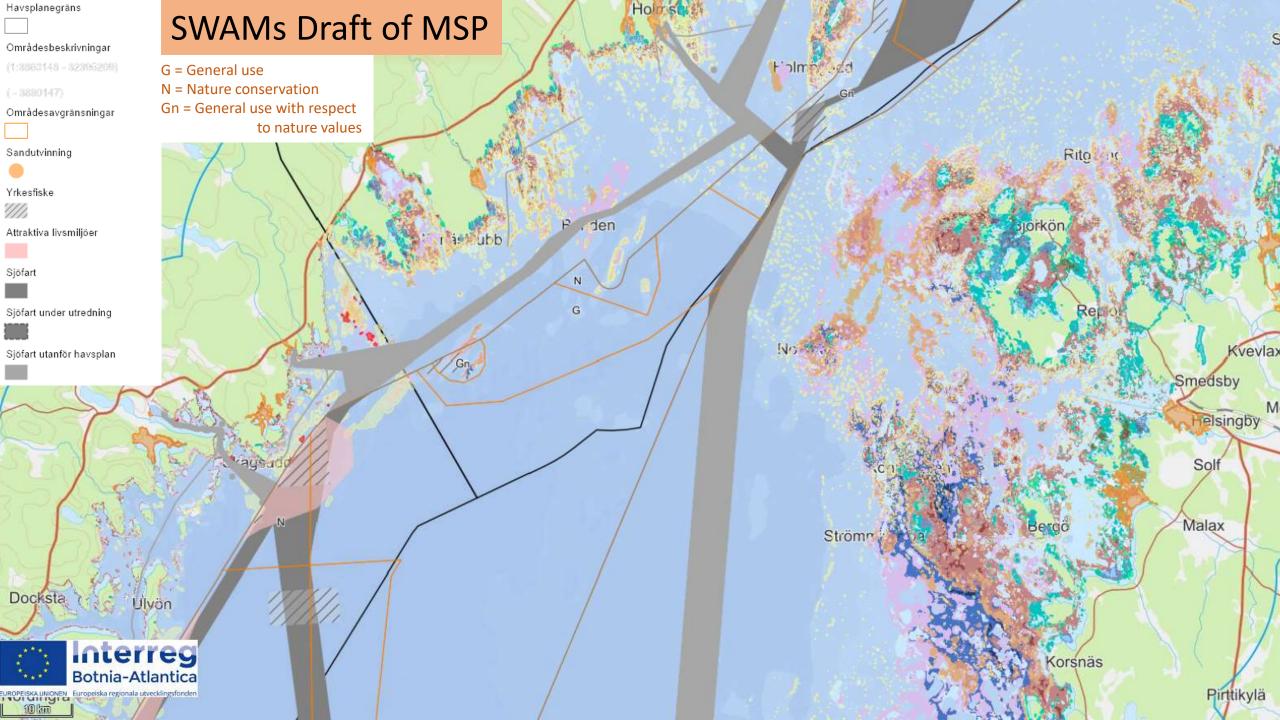




Bluemussel beds

Helcom Underwater Biotopes



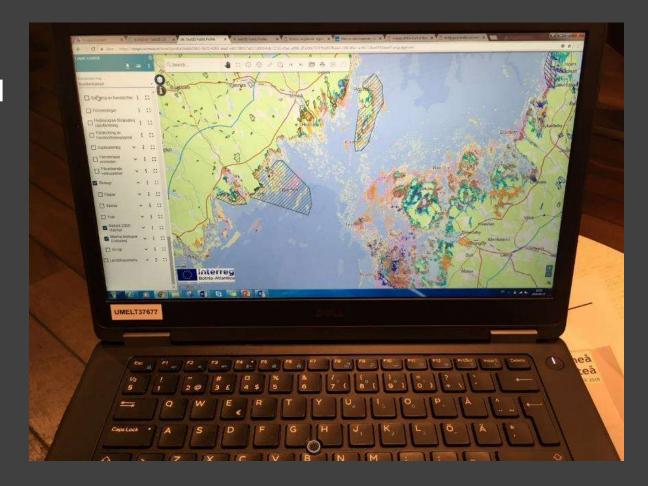


SeaGIS map service

- Library of maps for the sea and coastal zone, more than 500 layers
- Regional data
- Harmonized symbology, FIN-SWE data
- Open and accessible, even in mobile devices

Please use the Chrome web reader















What about blue growth?

- SeaGIS 1 + 2.0 have examined existing national and regional plans and strategies
- SeaGIS 2.0 conducted a series of recurring workshops and interviews









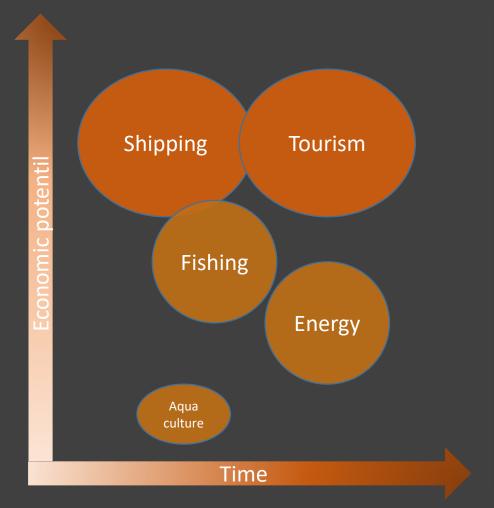


Themes:

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













Outcome of the interviews with municipalities

- Very low planning capacity in smaller municipalities
- Rather little interest in the sea
- Lack of knowledge about possibilities
- Concerns for more restrictions and "government control"
- Want to utilize resources to develop the municipality;
 - residential / vacation homes,
 - recreation and tourism
 - ports and industries, etc.



Havet som kommunal angelägenhet

Planeringsförutsättningar i kommunerna kring Kvarken

Örjan Pettersson, Umeå universitet Kjell Andersson, Åbo Akademi i Vasa

GERUM Kulturgeografisk arbetsrapport 2014-08-18







www.botnia-atlantica.eu-



www.seagis.org





How will the sea look like in 100 year?



-Effects of climate change?



-Resilience by connectivity?



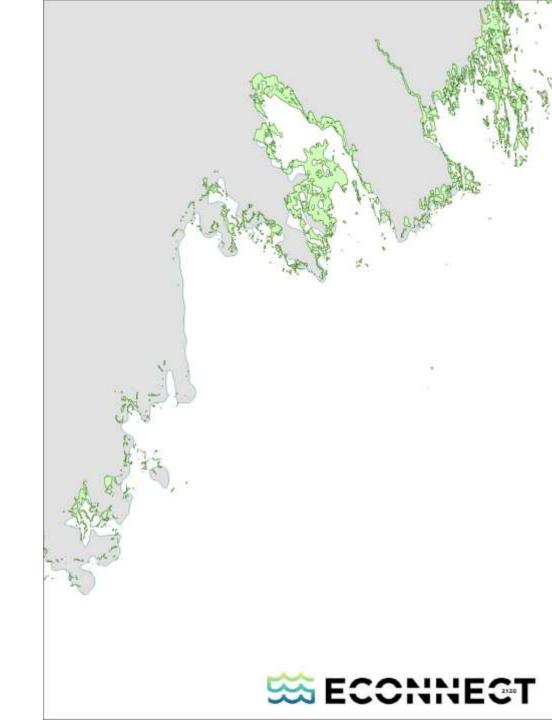
-Ecosystem services?



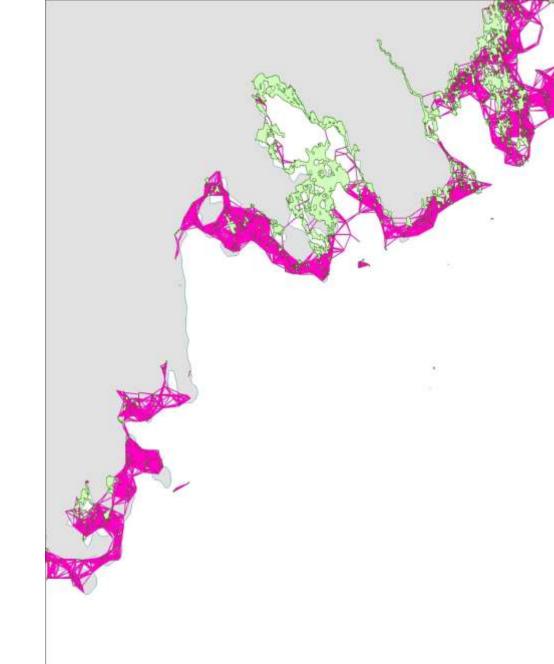
2018-2021

Chara meadows





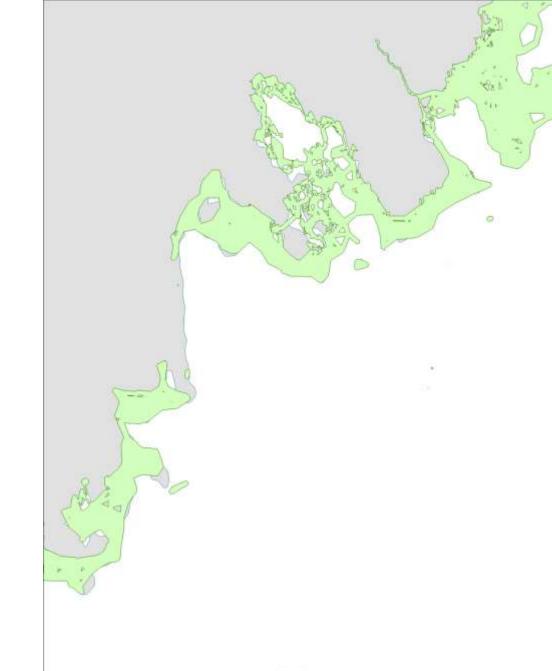
Chara meadows + Links (1 km)





Chara meadows + Links (1 km)

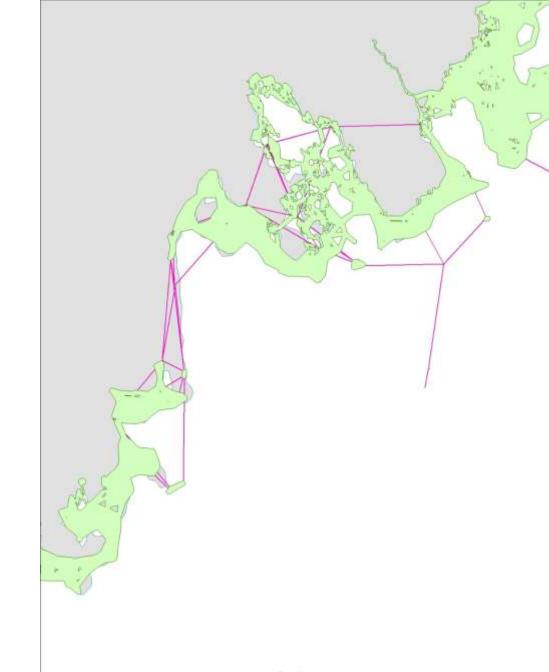
= good connected components





Chara meadows + Links (1 km)

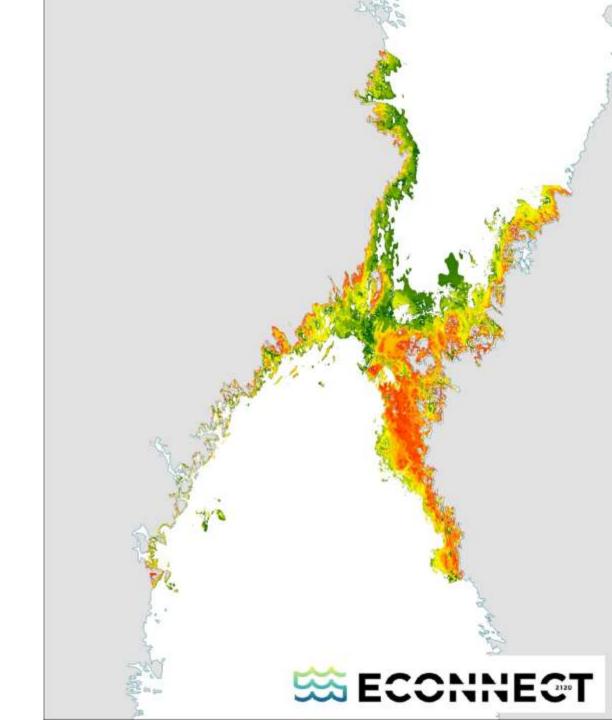
- = good connected components
- + longdistance links





High biological diversity

Analysed with Zonation including 23 HUB biotop maps



Lessons learned

- Sharing data makes you strong
- For regional questions (regional planning) you need regional data, check SeaGIS map services
- Low interest from municipalities in MSP
- We have to prepare for climate change











