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Interreg
Central Baltic



MAREA

Next generation of ecosystem service maps, can we reach flow?

Louise Forsblom, Elina Virtanen, Susanna Jernberg
Finnish Environment Institute
MAREA project final event 2.11.2022





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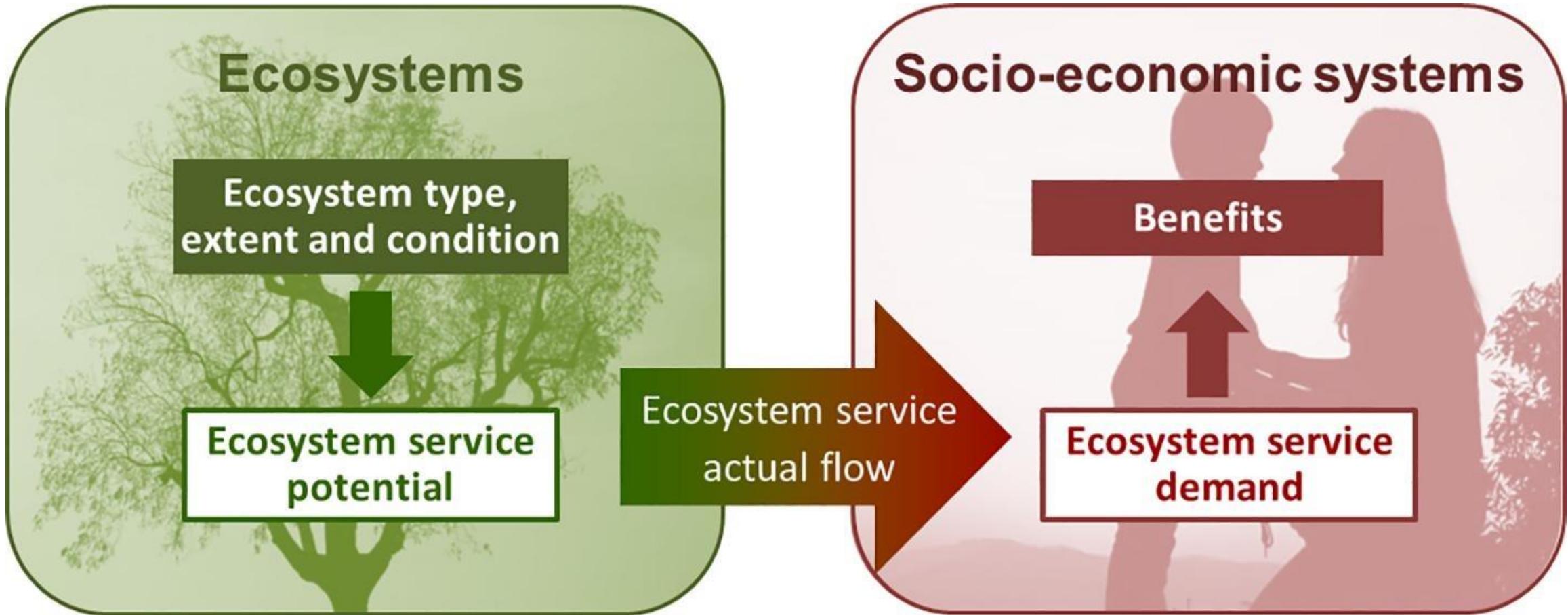


MAREA

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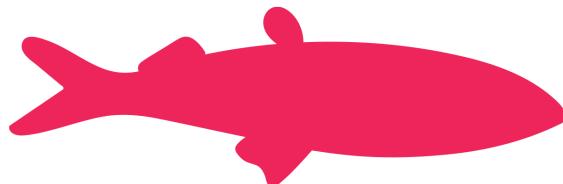
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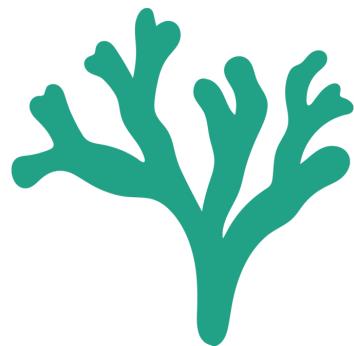


Ecosystem Services classified according to Common International Classification of Ecosystem services (CICES v.5):

Provisioning
services



Regulating and
maintenance
services



Cultural
services



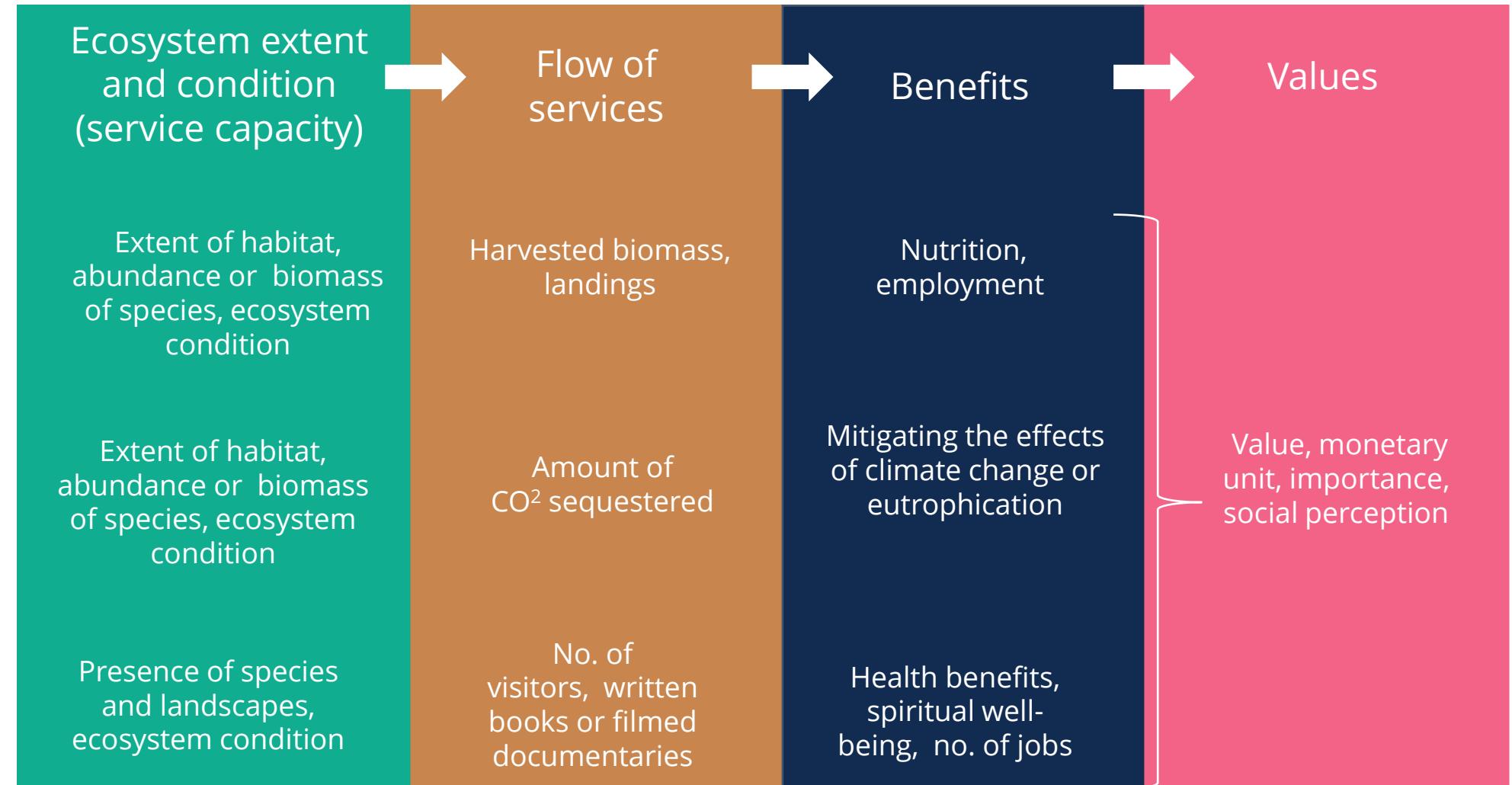
Framework with examples of ecosystem service indicators



 **Provisioning**

 **Regulating**

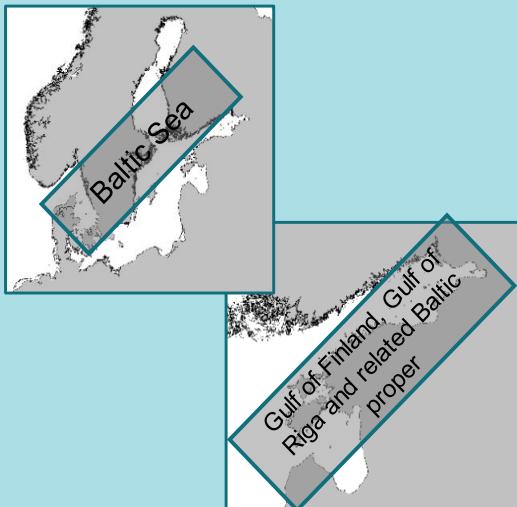
 **Cultural**



Selection criteria

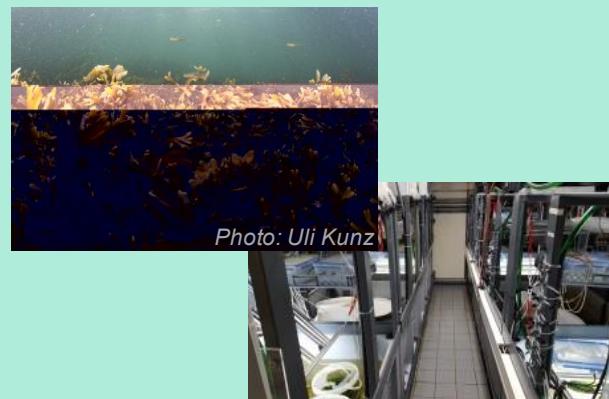
Relevance

Only services relevant for the Baltic Sea and the study area



Process-based

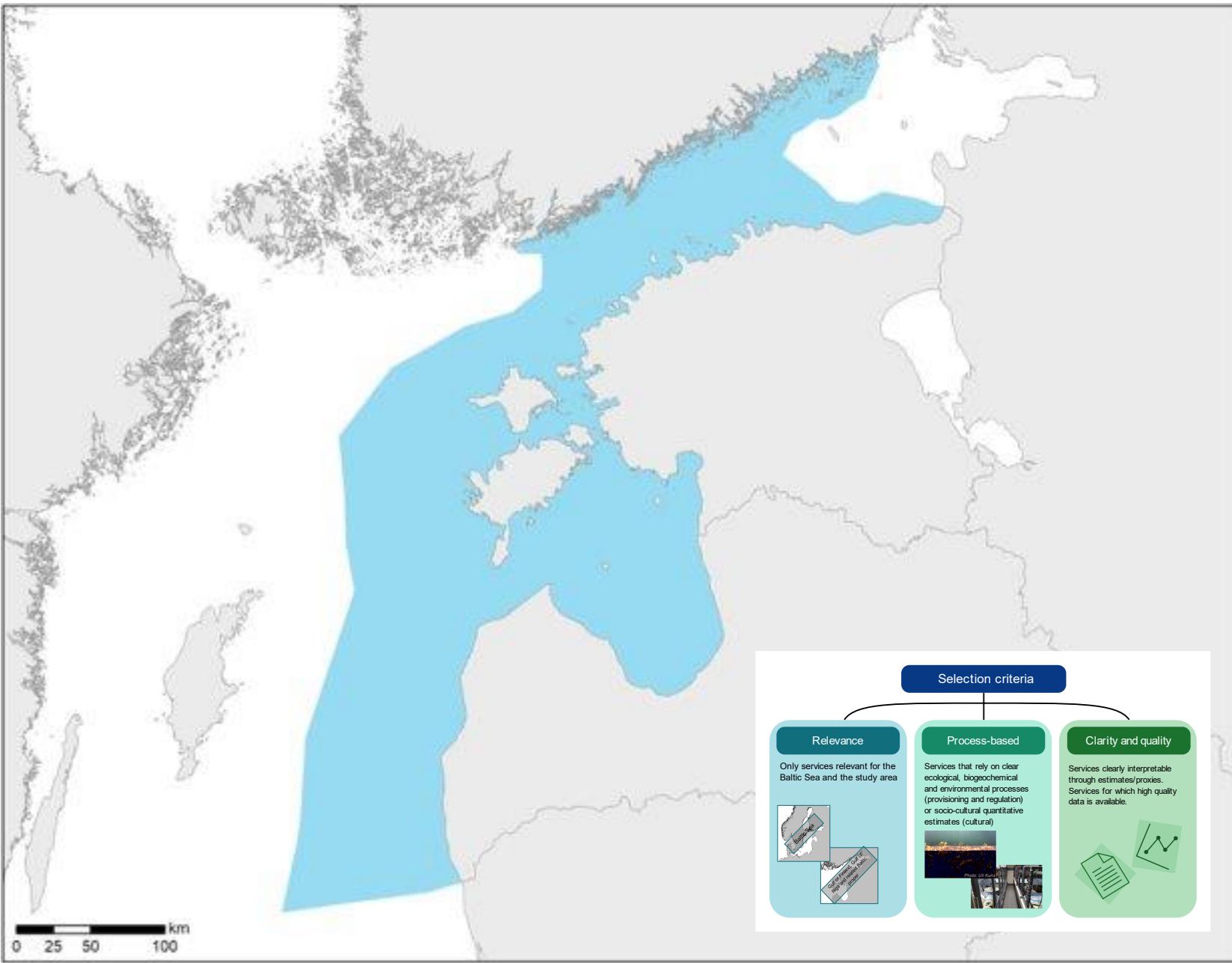
Services that rely on clear ecological, biogeochemical and environmental processes (provisioning and regulation) or socio-cultural quantitative estimates (cultural)



Clarity and quality

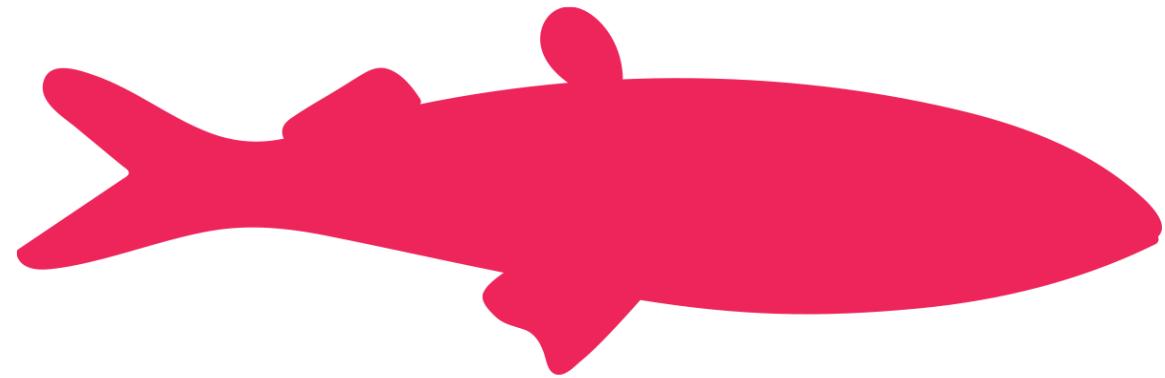
Services clearly interpretable through estimates/proxies. Services for which high quality data is available.



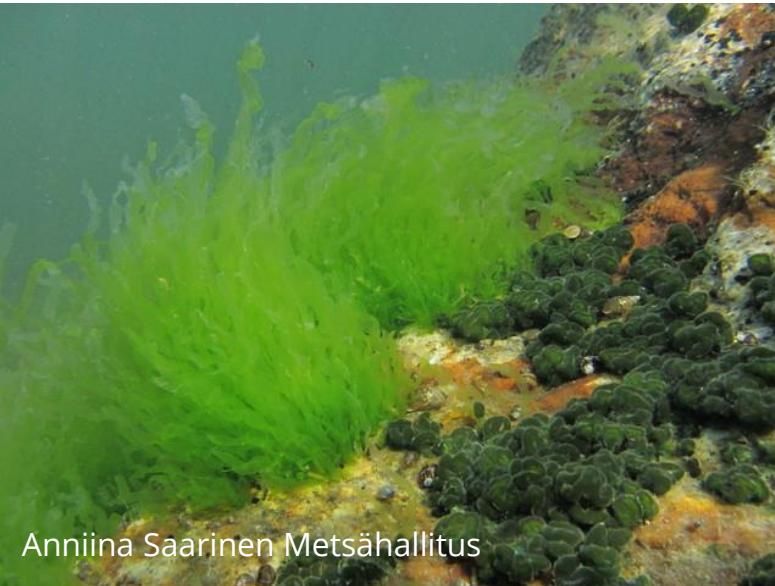


Schematic & map Francisco Barboza & Jonne Kotta University of Tartu

Provisioning



Provisioning



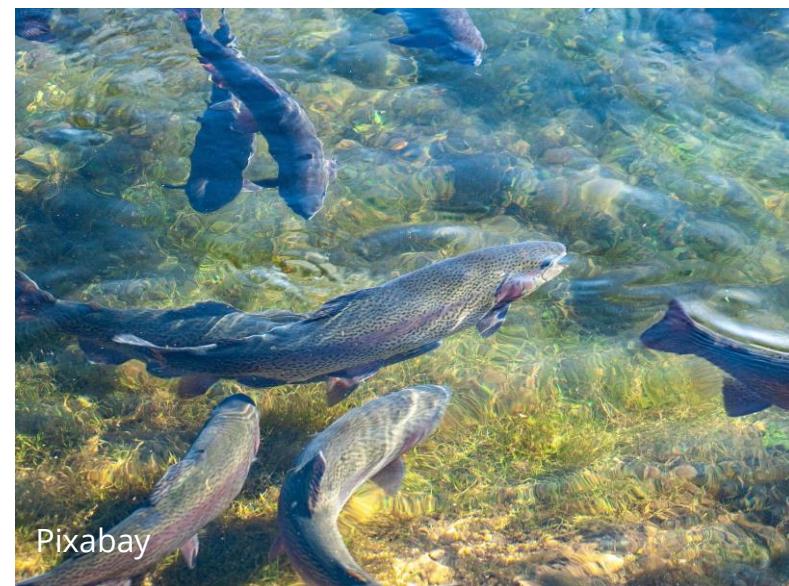
Anniina Saarinen Metsähallitus



Juuso Haapaniemi Metsähallitus

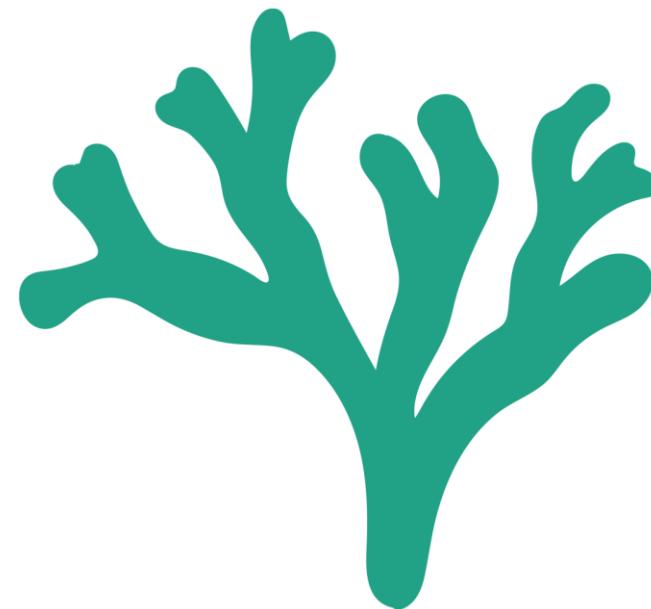


Heidi Arponen Metsähallitus



Pixabay

Regulating

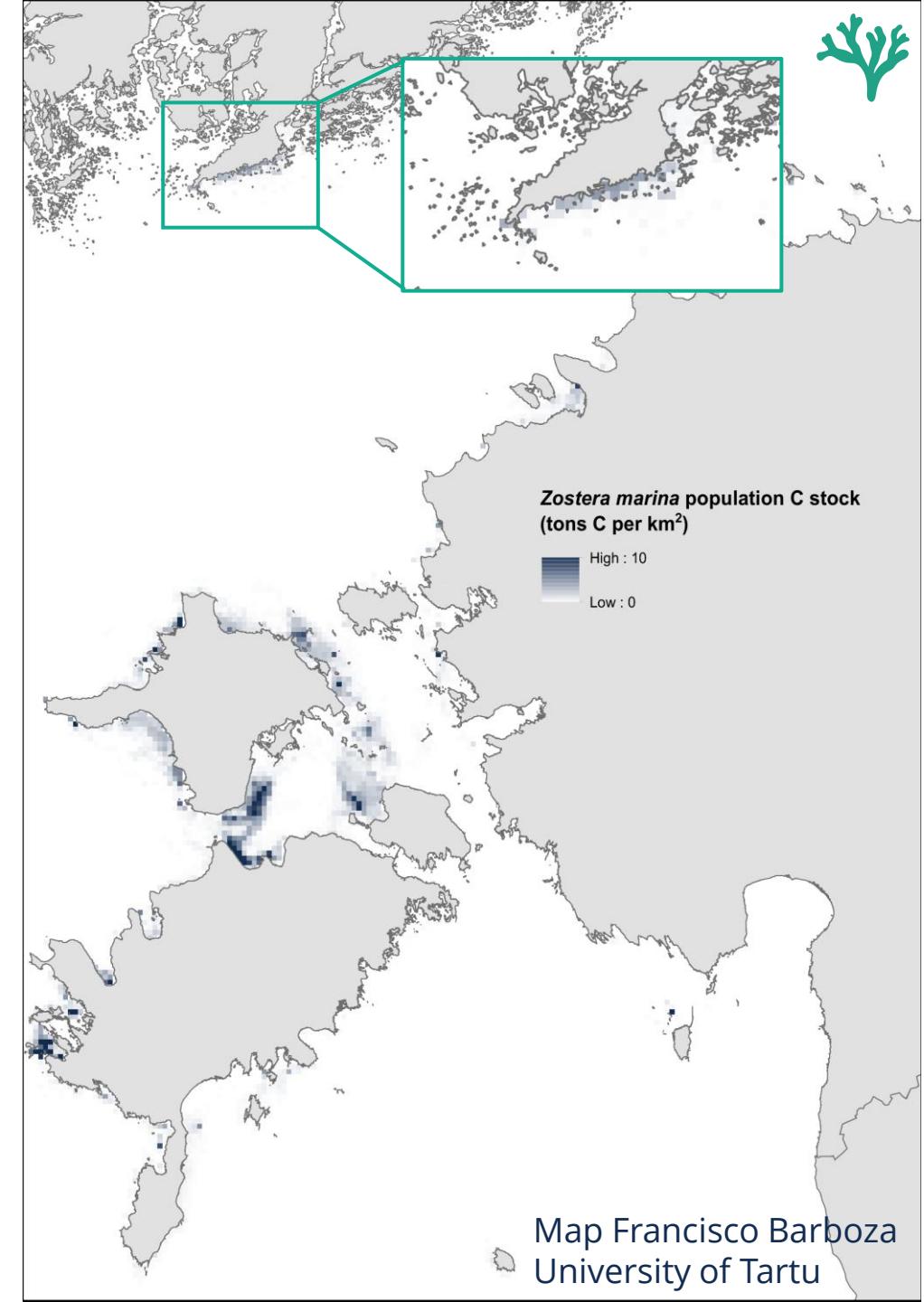


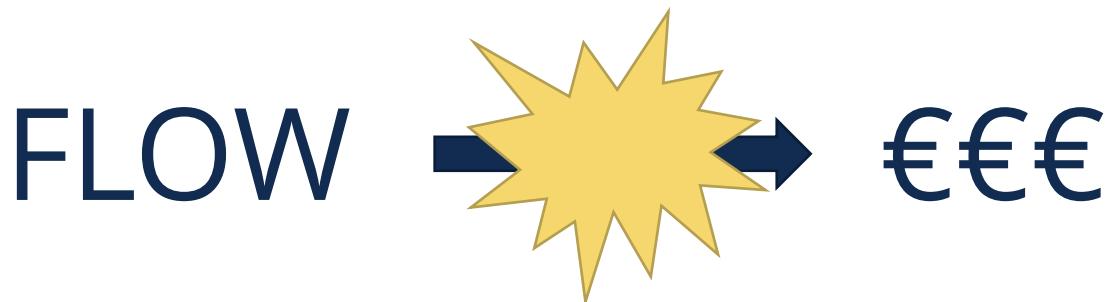
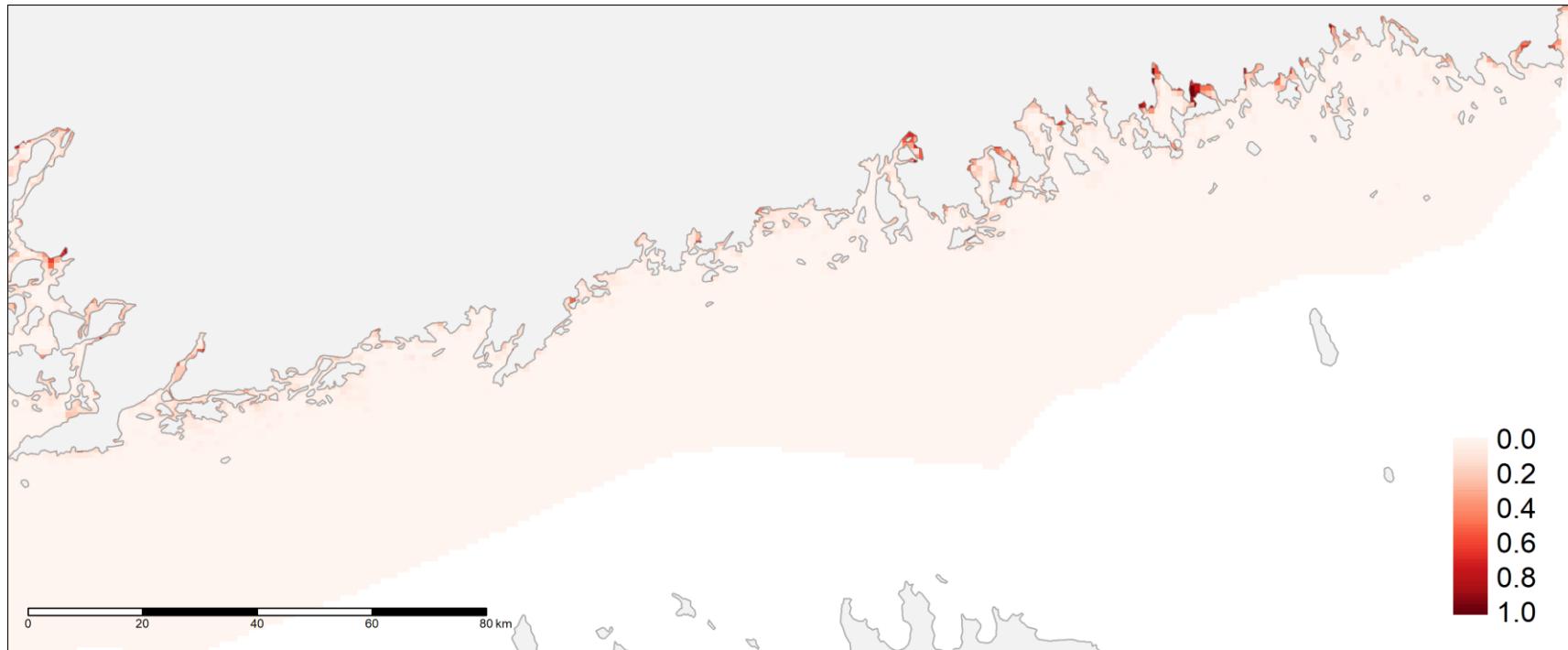
Regulating

Carbon storage (flow)



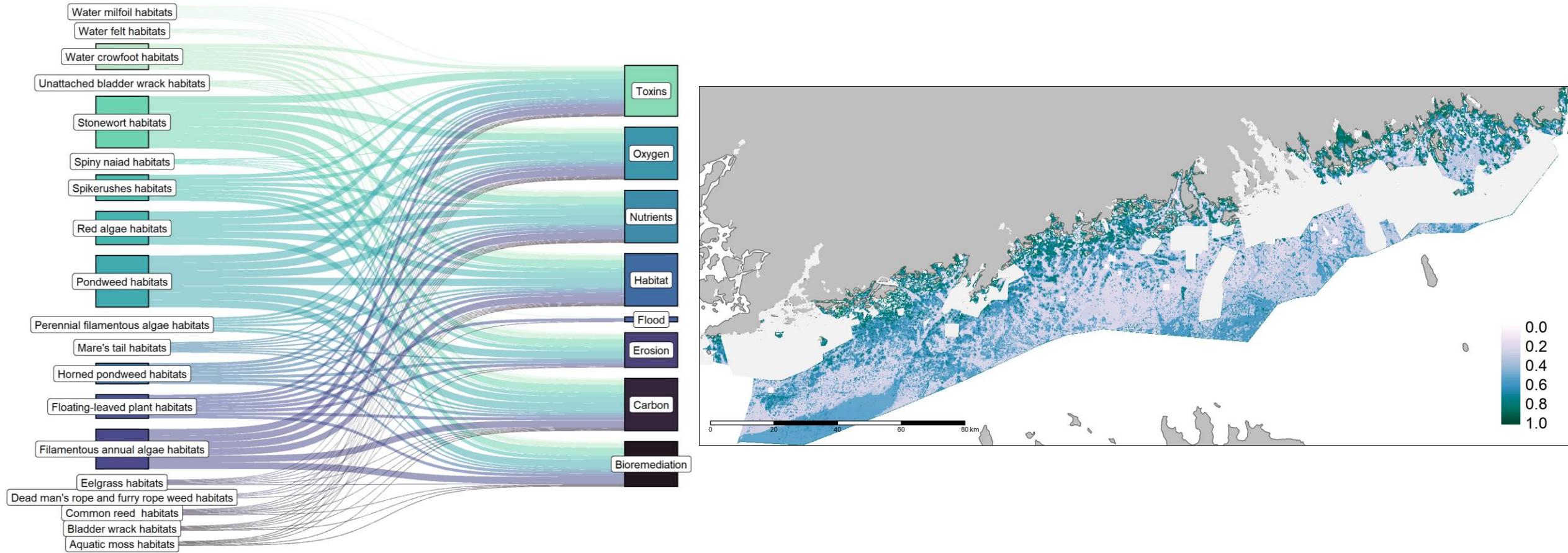
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Applications for capacity maps





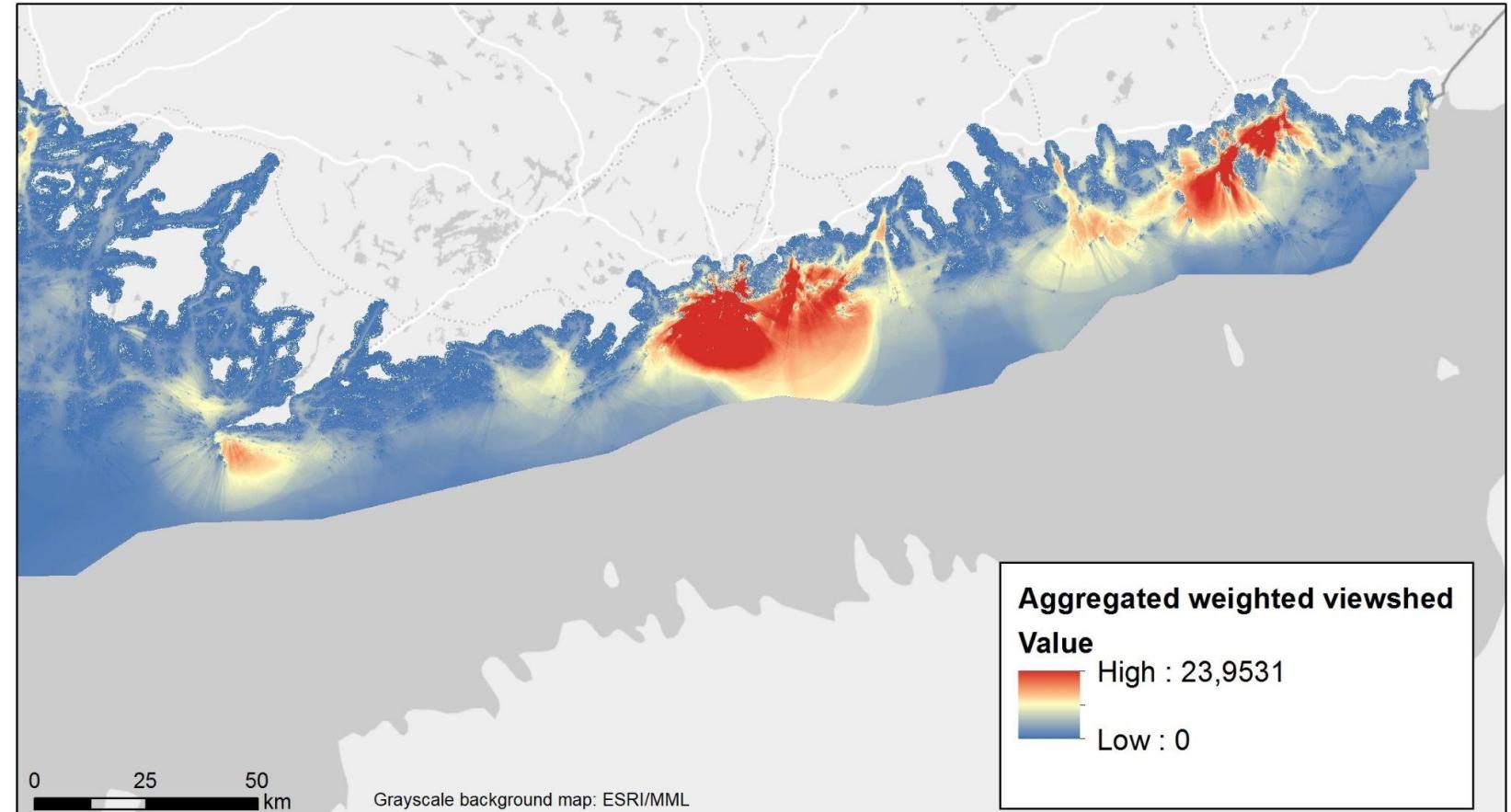
Aesthetic experience / recreation (capacity)



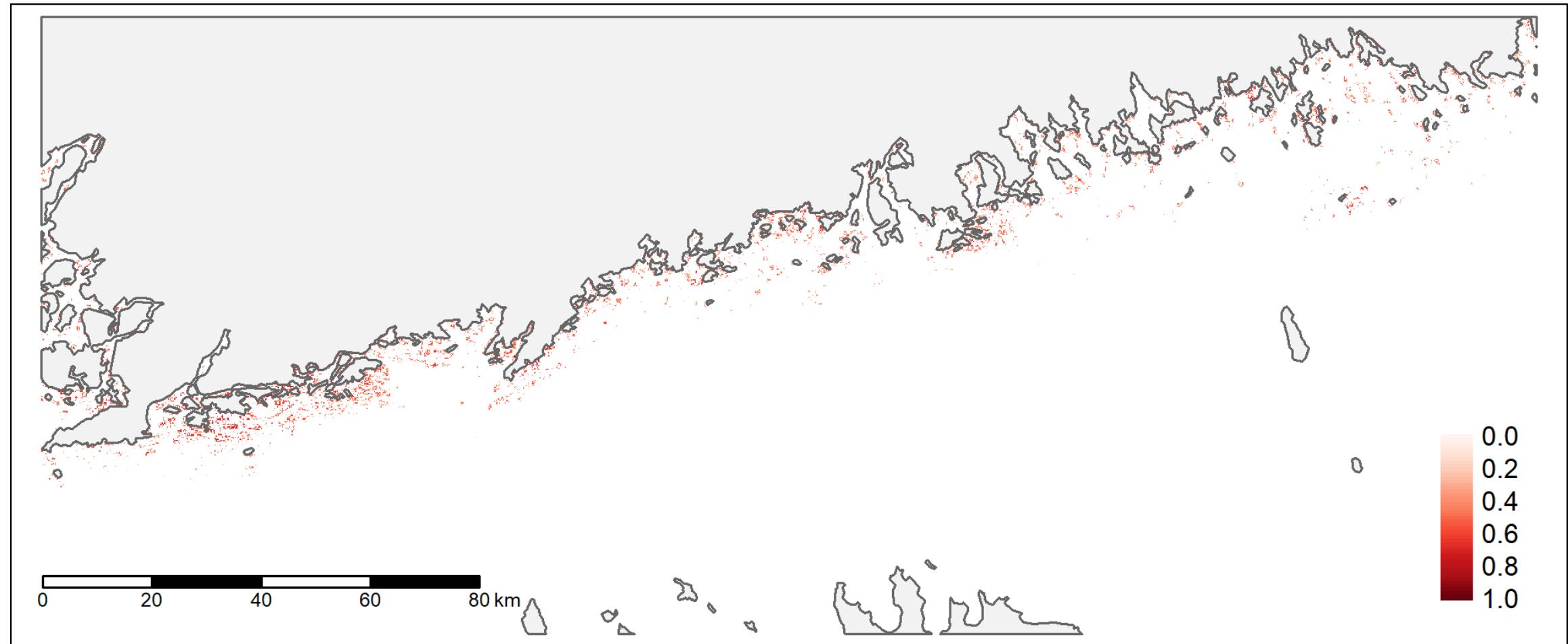
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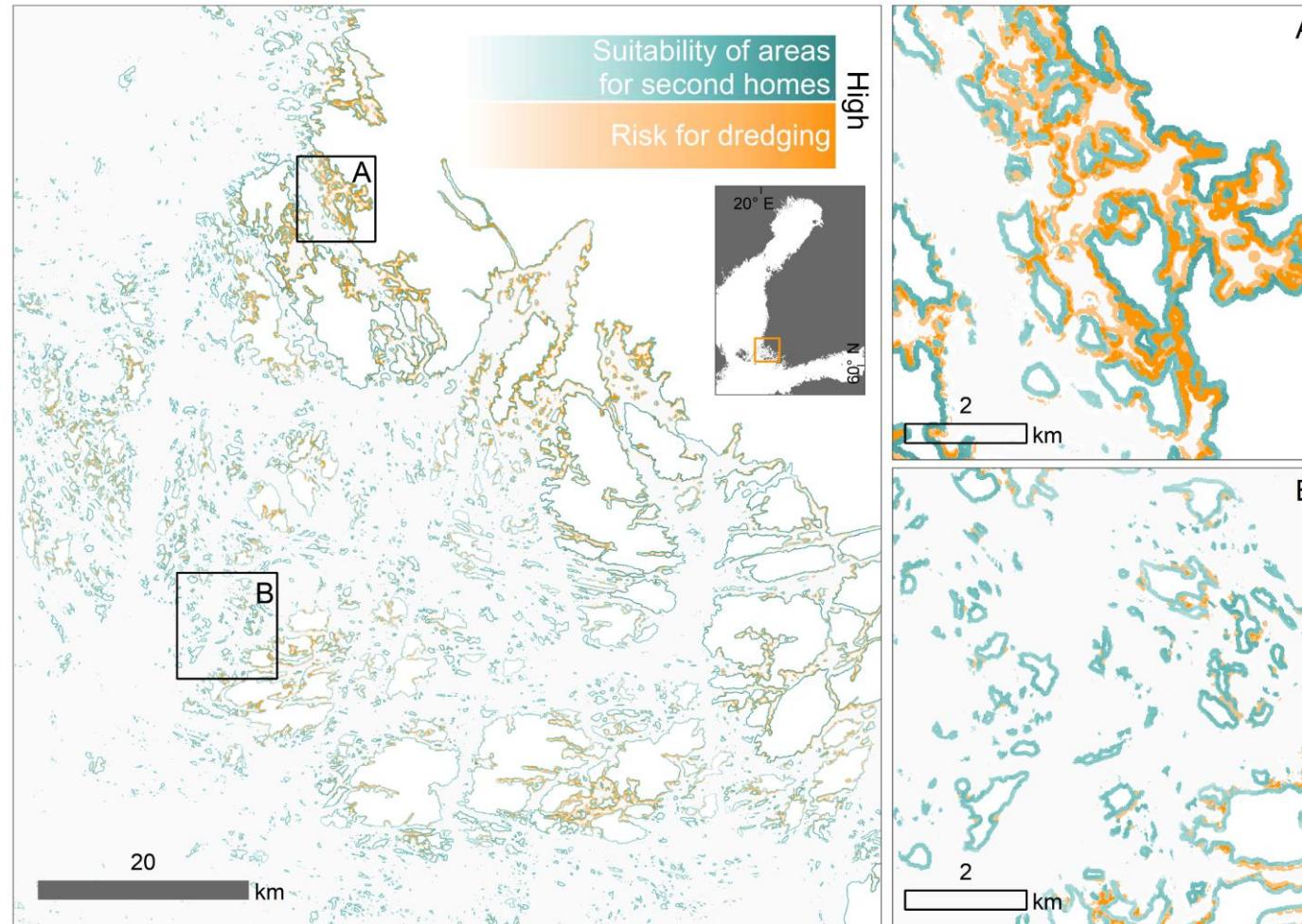
Anu Suonpää Metsähallitus



Map Marco Nurmi SYKE



Applications for cultural service maps





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Thank you!



PELL
Pellervo Economic
Research



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