Stakeholder conference on mussel farming and water quality

Introduction by Nardine Stybel (EUCC-D)

Rostock, 19.03.2019



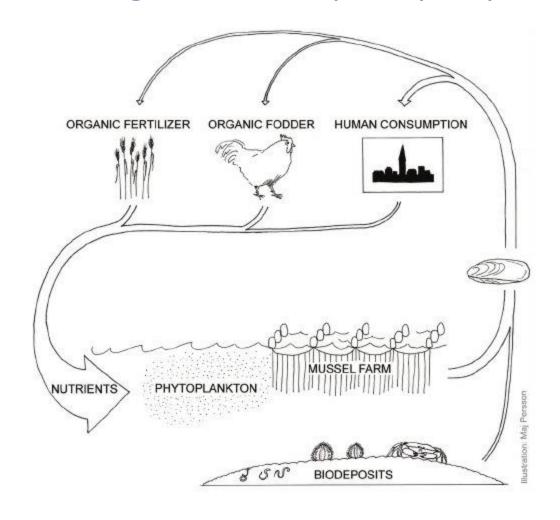
Baltic Blue Growth



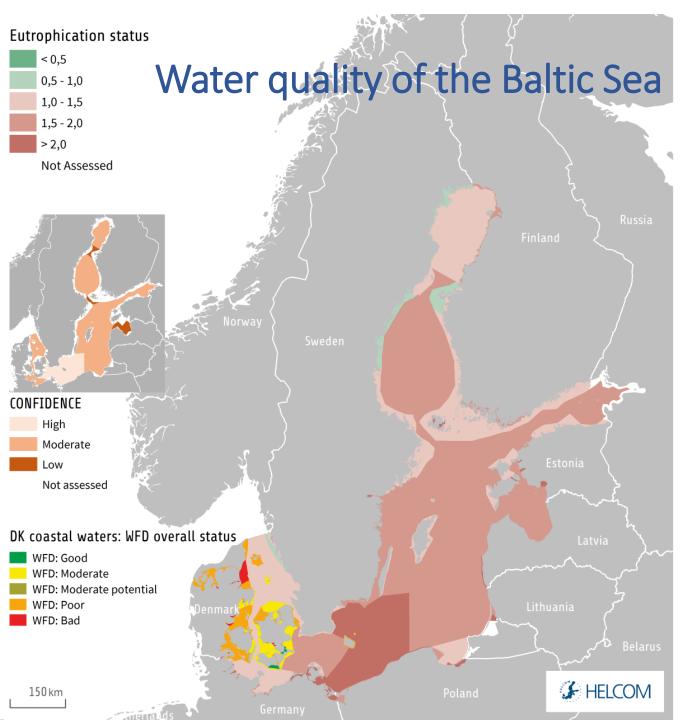




Mussel farming for water quality improvement

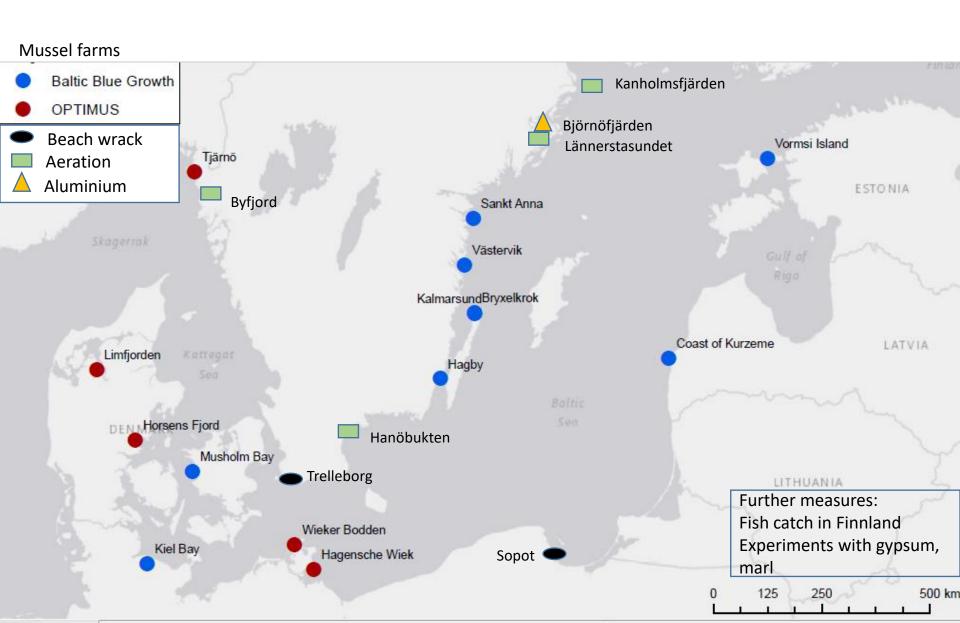


The Agro-Aqua recycling system of nutrients from sea to land, Odd Lindahl et al. 2005



Integrated status of eutrophication in the Baltic Sea 2011-2016

Trails for water quality improvements

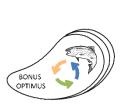


BONUS OPTIMUS (2017-2020)

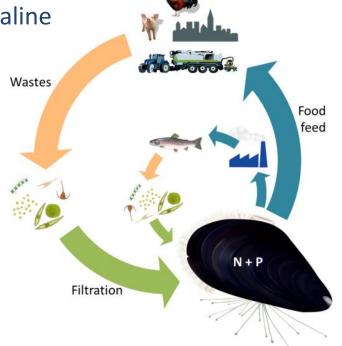
Aims to:

- provide robust evidence-based documentation of ecological, social and economic aspects of farmed mussel as a mitigation tool for eutrophication
- optimize aquaculture techniques and processing of farmed mussels to sustainable protein-rich feedstuff for fish

 test feasibility of mitigation mussel farms in low saline areas of the Baltic Sea



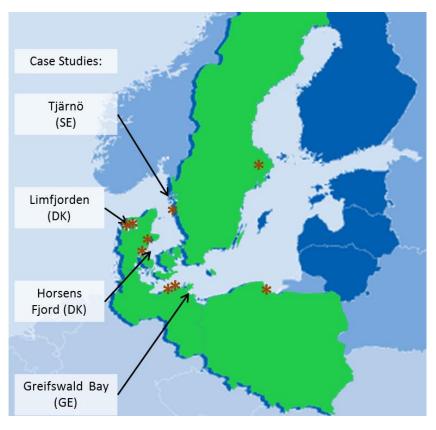




Working tasks

Mussel production capacity and costs optimization

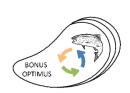
- -Test of settling material
- -Monitoring of production volume and labour effort
- -Production potential in GWB \



Environmental impacts of mussel mitigation culture

- -Measurements of water clarity/ particle depletion
- -Measurements of sediment chemistry
- -Development of methods for mitigation of sediment impacts

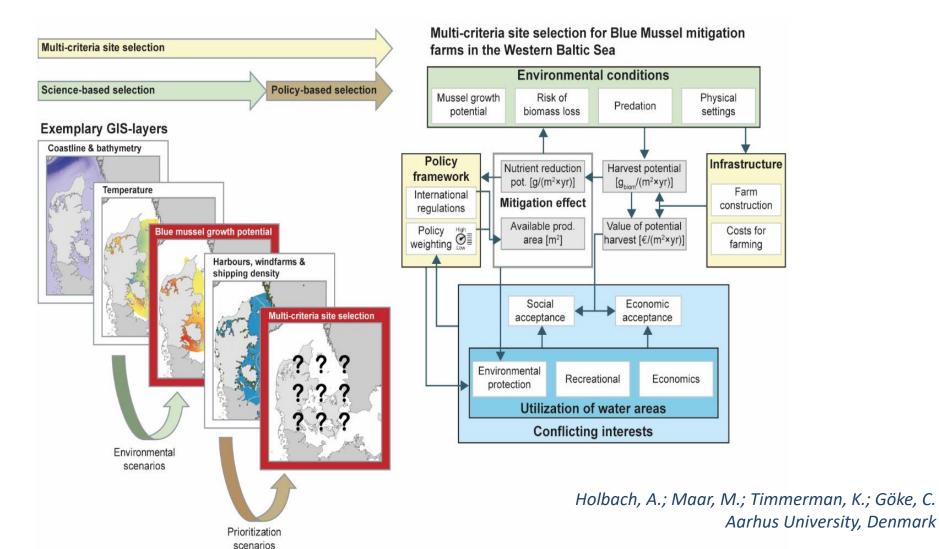
Talk by A.L. Buer







Multi-criteria site selection of mussel farming for MSP

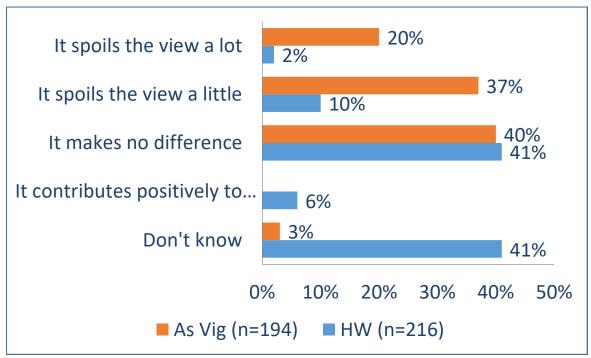






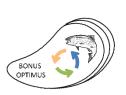
Social acceptance of the mitigation concept

In your opinion, how is the view over Hagensche Wiek/As Vig affected by mussel?



Petersen, L., Stybel, N., Posern, M. Aarhus University, Denmark & EUCC-D

→ Guidelines of how to mediate social acceptance on mussel mitigation cultures





Economic feasibility & value of mussel mitigating cultures

- -cost-efficient techniques for processing of mussel meal
- tests of mussel meal in fish feed



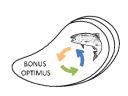
-analysis of the cost effectiveness of mussel farming

-exploration of alternative policies for payments of ecosystem services

-socio-economic potentials of improved water transparency



Talk by M. Inacio





More from BONUS OPTIMUS

www.bonus-optimus.eu

Researchgate/OPTIMUS

Coastal & Marine magazine 1-2019

- Danish Technical University, National Institute of Aquatic Resources;
 Coordinator: Prof. Jens Kjerulf Petersen
- Aarhus University, Denmark
- Leibniz-Institute for Baltic Sea Research Warnemünde, Germany
- EUCC The Coastal Union Germany, Germany
- Swedish University of Agricultural Sciences, Sweden
- University of Gothenburg, Sweden
- Institute of Oceanology of the Polish Academy of Sciences, Poland
- GRAIN Wood A/S, Denmark
- Hjarnø Havbrug A/S, Denmark





09:30	Gerald Schernewski	Welcome
	Leibniz-Institute for Baltic Sea Research Warnemuende	
09:40	Nardine Stybel, EUCC – The Coastal Union Germany	Overview about projects BONUS OPTIMUS & BBG
	Efthalia Arvaniti, Submariner Network	
10:00	Roland Lemcke	Mussel farming in Schleswig-Holstein, current
	Ministry of Energy, Agriculture, the Environment,	situation, research activities and gaps
	Nature and Digitalization Schleswig-Holstein	
10:25	Anna-Lucia Buer	Mussel farming in Mecklenburg-Vorpommern -
	Leibniz-Institute for Baltic Sea Research Warnemuende	chances in low saline coastal waters
10:50	Per Dolmer	Mussel farming in Denmark – nutrient-catch cultures
	Orbicon A/S	of blue mussels – example Mariager Fjord
11:15	Tim Staufenberger	Practical experiences of a small mussel farm
	Kiel Marine Farm	
11:40		Discussion
12:15		Lunch + Possibility to work with ODSS
		(Operational Decision Support System)
13:15	Maria Posern, EUCC – The Coastal Union Germany	Combination of floating wetlands with mussel
		cultivation
13:40	N.N.	Planned IMTA Rostock
	Federal State Institute of Agriculture and Fishery MV	
14:00	Joanna Przedrzymirska	Proposal of a harmonized approach on how to
	Maritime Institute in Gdansk	include mussel farms in the MSP process
14:25	Miguel Inacio	Ecosystem services of mussel farming
	Leibniz-Institute for Baltic Sea Research Warnemuende	
14:50	Angela Schultz-Zehden	Ecosystem Service payments for mussel farms in the
	Submariner Network	Baltic Sea
15:15		Final discussion