BONUS BASMATI

Baltic Sea Maritime Spatial Planning for Sustainable Ecosystem Services

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Itämeren merialuesuunnittelu ja ekosysteemipalvelut

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Turun yliopisto

BONUS
SCIENCE FOR A BETTER FUTURE OF THE BALTIC SEA REGION

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BONUS BASMATI facts

- BONUS Call 2015: Blue Baltic
- 2,8 milj. €
- Heinäkuu 2017 – kesäkuu 2020
- Seitsemän partneria, viisi jäsenvaltiota
- Koordinaattori: Henning Sten Hansen, Ålborgin yliopisto

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AALBORG UNIVERSITY
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RESEARCH INSTITUTE
FGI

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HIDROEKOLOĢIJAS
INSTITŪTS

Leibniz Institute for
Baltic Sea Research
Warnemünde
IOW

Nordregio

Turun yliopisto
University of Turku

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The overall aims of the project

- *The overall objective of the BONUS BASMATI project is to **develop integrated and innovative solutions for MSP** from the local to the Baltic Sea Region scale through **multi-level governance structures** and **interactive information technology** aiming at developing an ecologically and socio-economically sound network of **protected marine areas** covering the Baltic Sea*.

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Specific objectives

- Analyse **governance systems** and their information needs regarding MSP in the BSR for developing an operational, transnational model for MSP
- Develop **methods and tools** for assessments of plan proposals based on an approach including spatially explicit pressures and effects on maritime ecosystem services
- Create a **spatial data infrastructure** for the Baltic Sea Region facilitating broad access to information
- Design and develop an **innovative web-based decision support system** providing easy access to information through intelligent discovery

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Työpaketti 2: Governance and Maritime Spatial Planning

- WP2 investigates how the use of interactive modelling tools such as Baltic Explorer affects different categories of stakeholders and facilitates their interaction. The objectives of WP2 are:
  1. To establish the **conceptual framework** for the development of tools facilitating stakeholder participation in sustainable allocation of marine activities
  2. To **test stakeholder involvement tools**
  3. Draw lessons from these case study tests.

Institutionalisation of MSP in the Baltic Sea Region

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1) EU Directive on MSP

2) Countries' set up legal framework and assign responsible authorities

3) Sub-Regional Forums:

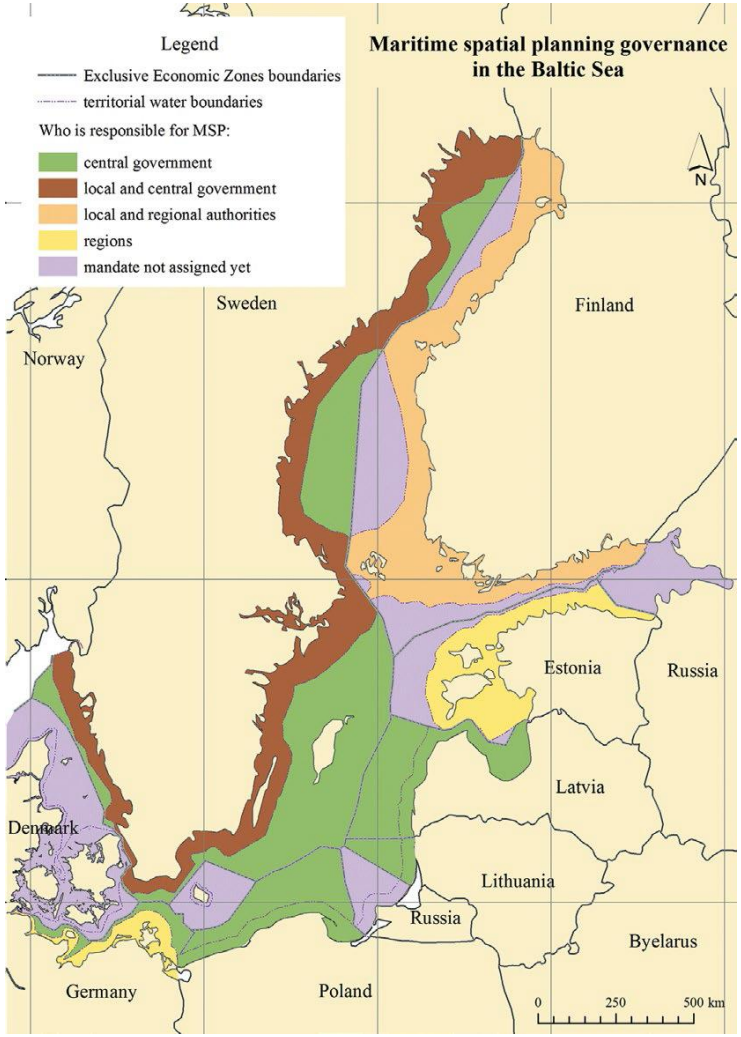
- Öresund Strait, Bothnian Bay collaborations

4) Regional institutions

- VASAB, HELCOM, HELCOM-VASAB Working Group in MSP

5) Project-base:

- SEAGIS; PlanBothnia; BaltCoast; BaltSeaPlan; PartiSEApate; Plan4Blue; Baltic SCOPE; BaltSpace



Source: Zaucha: VASAB, 2013

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Työpaketti 3: Data requirements and availability for Maritime Spatial Planning

- The objectives of the WP are:
  1. Define **data standards/minimum requirements** for MSP
  2. **Produce and acquire data** on ecosystem services as well as on anthropogenic pressures
  3. **Identify data gaps** and discuss the resulting quality and confidence of spatial plans
  4. **Anticipate future scenarios**, e.g. in relation to climate change that need to be considered in planning

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Työpaketti 4: Framework for assessment of effects of planning scenarios / alternatives

- The objectives of the WP are:
  1. To investigate the needs and perspectives of various levels of authorities in relation to sustainability assessment in planning
  2. To develop and adapt **a framework for sustainability assessment** to be used in maritime spatial planning processes
  3. To test the framework for various case studies on MSP
  4. To support the development of interactive communication tools for MSP participatory processes

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Työpaketti 5: Baltic Explorer – Information management and decision support system for MSP

- The aim of WP 5 is to **develop the Baltic Explorer**, which is a multi-channel platform offering an interactive web-map and large multi-touch display map applications for accessing, displaying and analysing harmonised cross-border data. Sub-objectives of WP5 are as follows:
  1. To define and implement visually coherent and context-aware Baltic Explorer map applications and map design
  2. To identify, design and implement efficient spatio-temporal multi-criteria analysis tools supporting cross-border MSP in the case studies.

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Työpaketti 6: Case studies

- Three case studies, which will function as test-beds for the development of the context-aware Baltic Explorer prototype of a decision support system. The tasks of WP6 are as follows:
  1. Identify relevant case studies
  2. To explore and develop **stakeholder interaction**
  3. Perform a case study addressing specific challenges on providing data and context aware modelling and impact assessment tools concerning ecosystem services
  4. Identify a primary test-bed concerning basic functionality and usability issues regarding the Baltic Explorer.

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Case studies

The Pan-Baltic case study evaluates transboundary and cross-border aspects of the MSP. The case examples are international: maritime tourism and commercial shipping. Conceptions on MSP, stakeholder involvement, and ecosystem services are investigated among the stakeholders around the Baltic Sea.




The Danish-German case study investigates opportunities for mussel farming in the south-western Baltic Sea. The focus will be on finding suitable sites and evaluating these sites based on ecosystem services. The study relies on high-quality data sets and extensive spatial analyses on environmental conditions and human activities.

The Latvian case study focuses on Marine Protected Areas (MPAs). Identifying suitable locations for adequately protecting benthic habitats is important for ensuring wide range of ecosystem services. The case study creates a tool for assessing the impact and value of alternative sea use options.


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Emphasis on stakeholder involvement

- To **raise awareness** concerning processes and challenges (Blue growth strategies, sustainability, ecosystems approach, etc.)
- To **learn** from each other (some countries have just started to implement the EU directive on maritime spatial planning)
- To **facilitate collaboration** across borders

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Hankkeen lopputuotteet…?

- Kansainvälisiä tieteellisiä julkaisuja
- Raportti- ja ohjeistusdokumentteja
  - Esim. “Guidelines for practitioners and policymakers outlining methods, tools and best practices for cross-border MSP planning focusing on issues relating to stakeholder mobilization and involvement in the process”
- Baltic Explorer -ratkaisut
- Aineistoja
  - Esim. “Database including spatial data on ecosystem services and (anthropogenic) pressures”

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The BONUS BASMATI project

Maritime Spatial Planning (MSP) requires a spatially explicit framework for decision-making, and on that background the overall objective of BONUS BASMATI is to develop integrated and innovative solutions for MSP from the local to the Baltic Sea Region scale. This is to be realised through multi-level governance structures and interactive

Kiitos!

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