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Baltic Sea Maritime Spatial Planning for Sustainable Ecosystem Services

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Helping to *Think About* Better Planning…

Andrea Morf, Søren Eliasen, Elin Cedergren, Nordregio

& BASMATI Team

Pan Baltic Scope FIAXSE, Stakeholder Meeting Umeå 2019

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Science for a better future of the Baltic Sea region

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IOW

Nordregio

Turun yliopisto
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Baltic Sea: Complex, changing problems…

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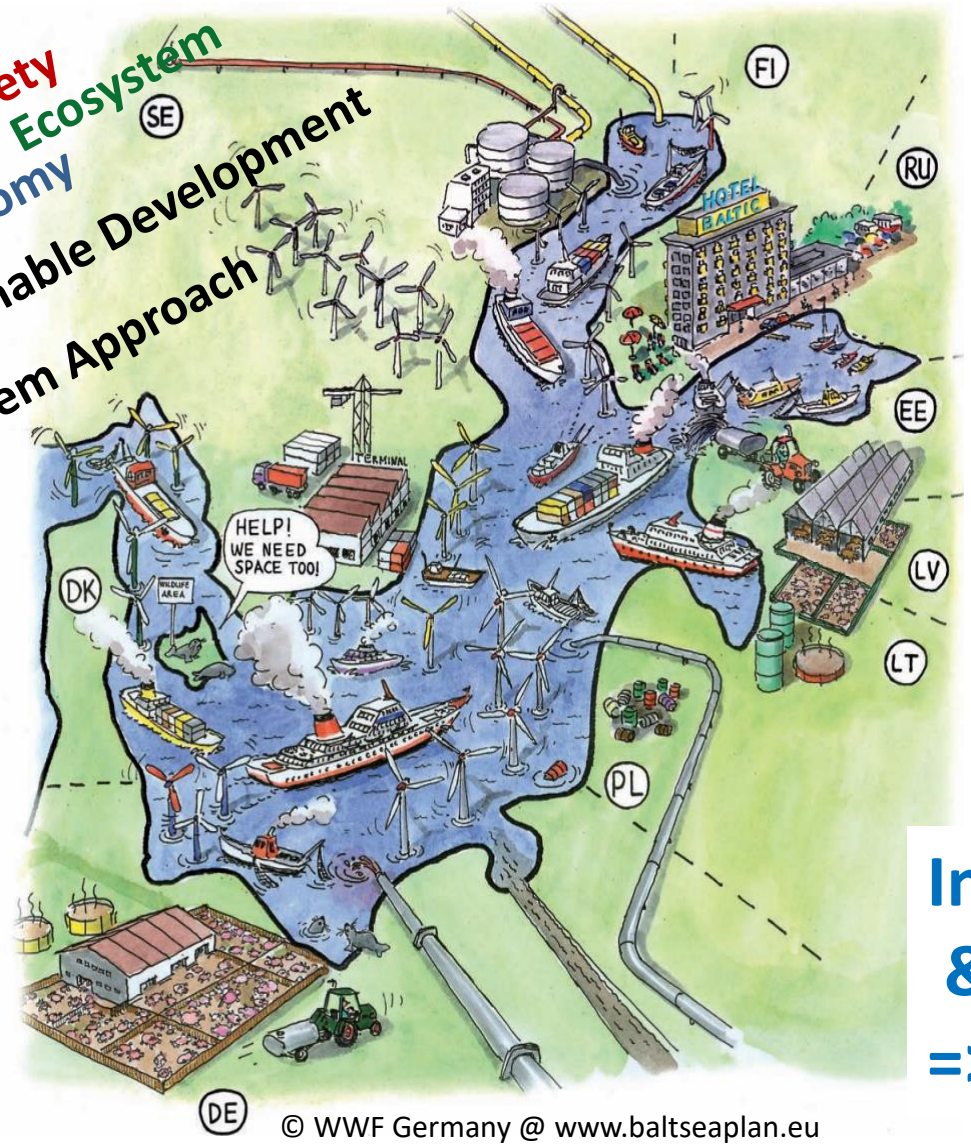
Society
Ecosystem
Economy
Sustainable Development
Ecosystem Approach



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? ? ?

-/-

+/+

+/-

€ SEK #VALUE?

Integration, participation & learning in MSP
=> Science: help reflect!

BOUNUS BASMATI *Research project*
6 Work Packages

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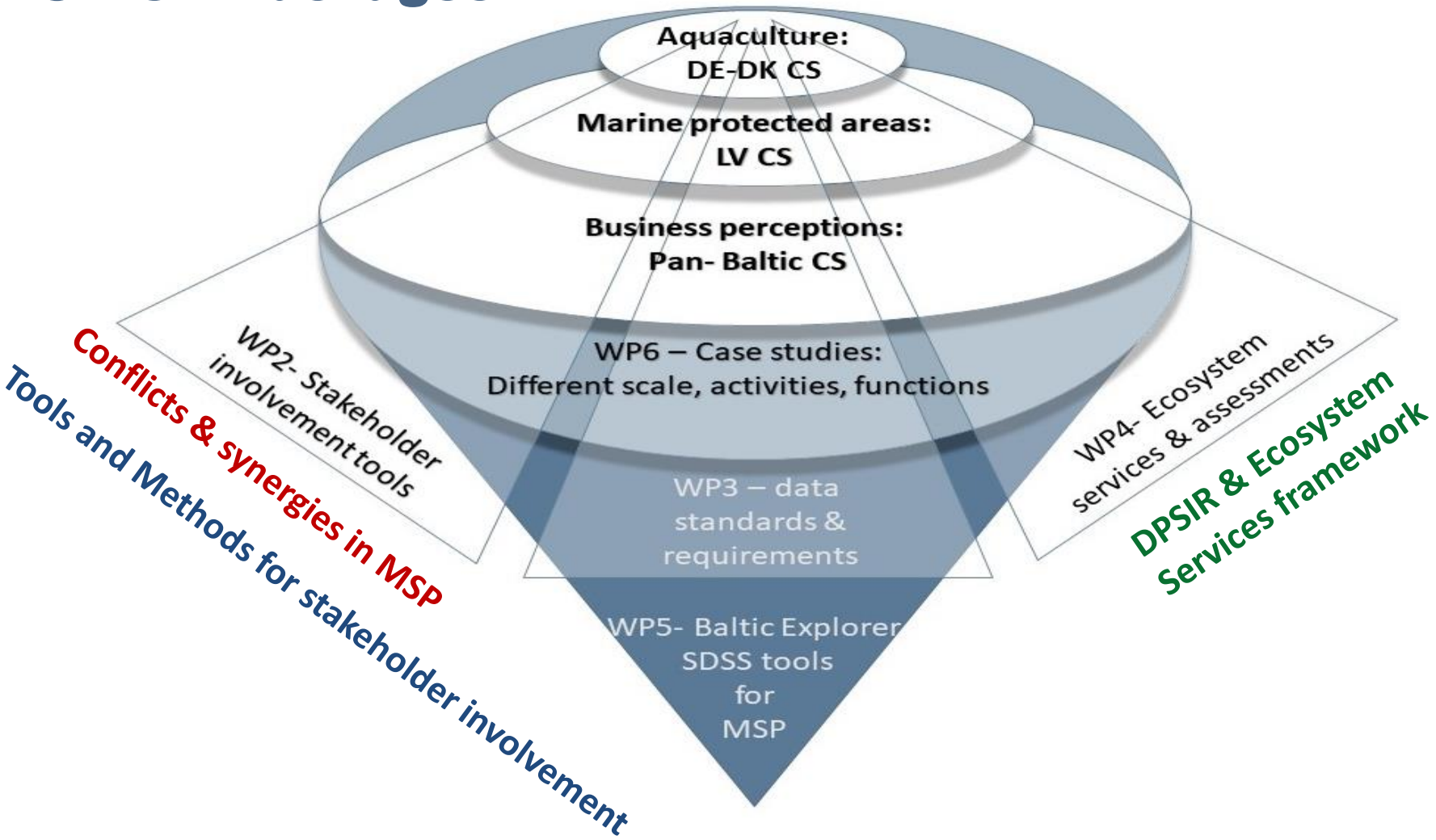

WP 2 Governance and MSP: Governance Systems & Stakeholder Involvement

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- **Analyse governance systems**
  - Structures & tools for **stakeholder involvement**
  - **Conflicts & synergies** in MSP
- **Analyse/advise case studies** from stakeholder & governance perspective

⇒Innovation in stakeholder involvement in BSR MSP

⇒Tool mapping & testing => Baltic Explorer?

WP 2 Governance & MSP: Conflict => Coexist => Synergies

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5 Dimensions to consider

(Baltic Scope, BaltSpace, BASMATI, Pan Baltic Scope)

1. Context +trends

Economic, societal, environmental

2. Institutions + institutional actors

Governance systems, levels, regulations

3. Process +plan

Planning & mgmt., facilitation, communication, learning

MSP focus

4. Uses +users

Interaction, time, place, technology

5. Knowledge

data, methods, tools

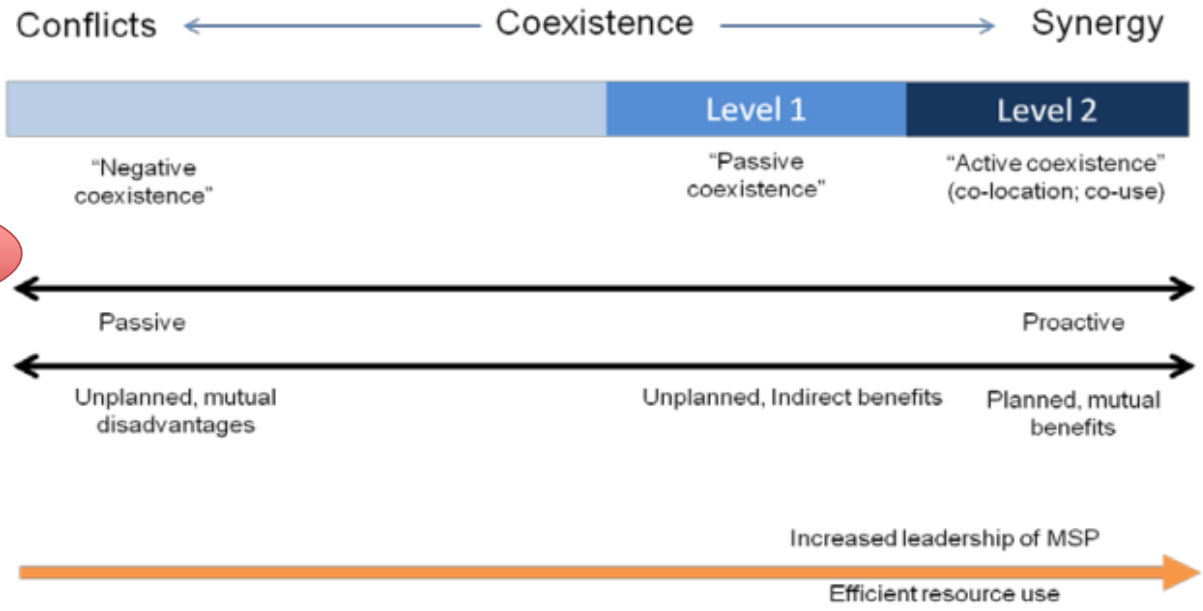

Figure 1. Conflicts and synergy as expressions of coexistence. ICES WKCCMSP REPORT, 2016, adapted

WP 3 Data Base & Requirements

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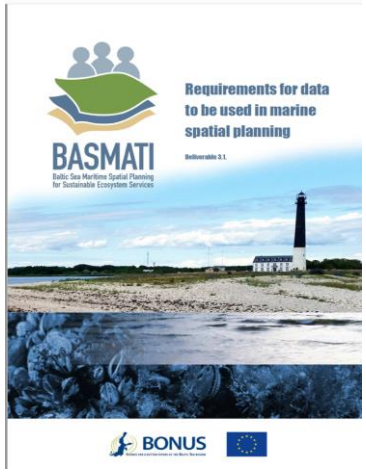
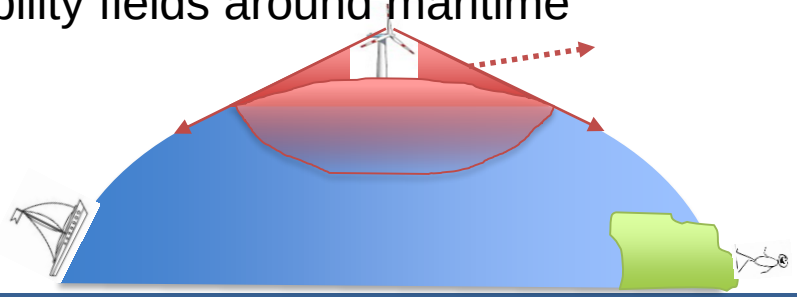


Standards for data properties

- Spatial scale: vertical, horizontal
- Time: frequency, occurrence, time line
- Level of confidence
- Guidelines promoting high meta data quality

Project Database: BalticSeaAtlas

- Case study data, activities & ecosystem services
- Transform stakeholder needs to spatial information e.g. visibility fields around maritime infrastructure



WP 4 Analytical framework

Structure & conceptualise sustainability assessment in MSP

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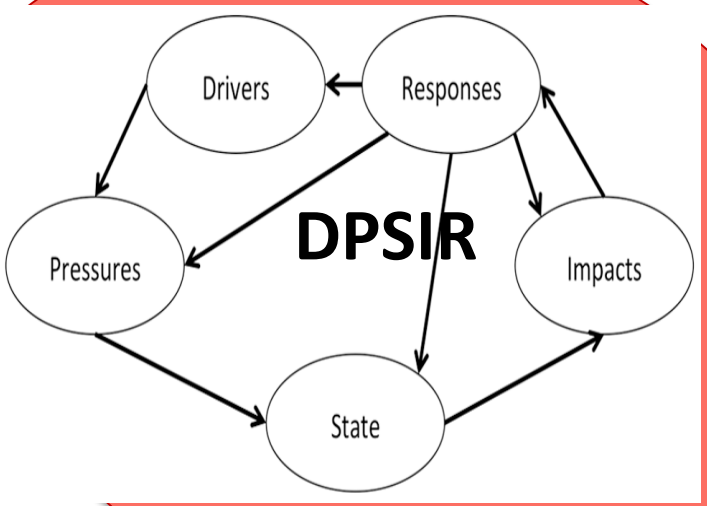

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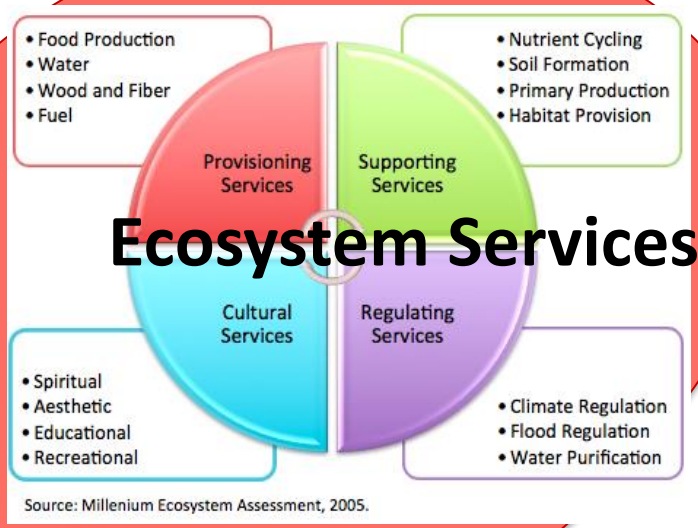

Source DPSIR; https://journals.plos.org/plosone/article/figures?id=10.1371/journal.pone.0070766

WP 4 Framework to structure & conceptualise sustainability assessment in MSP

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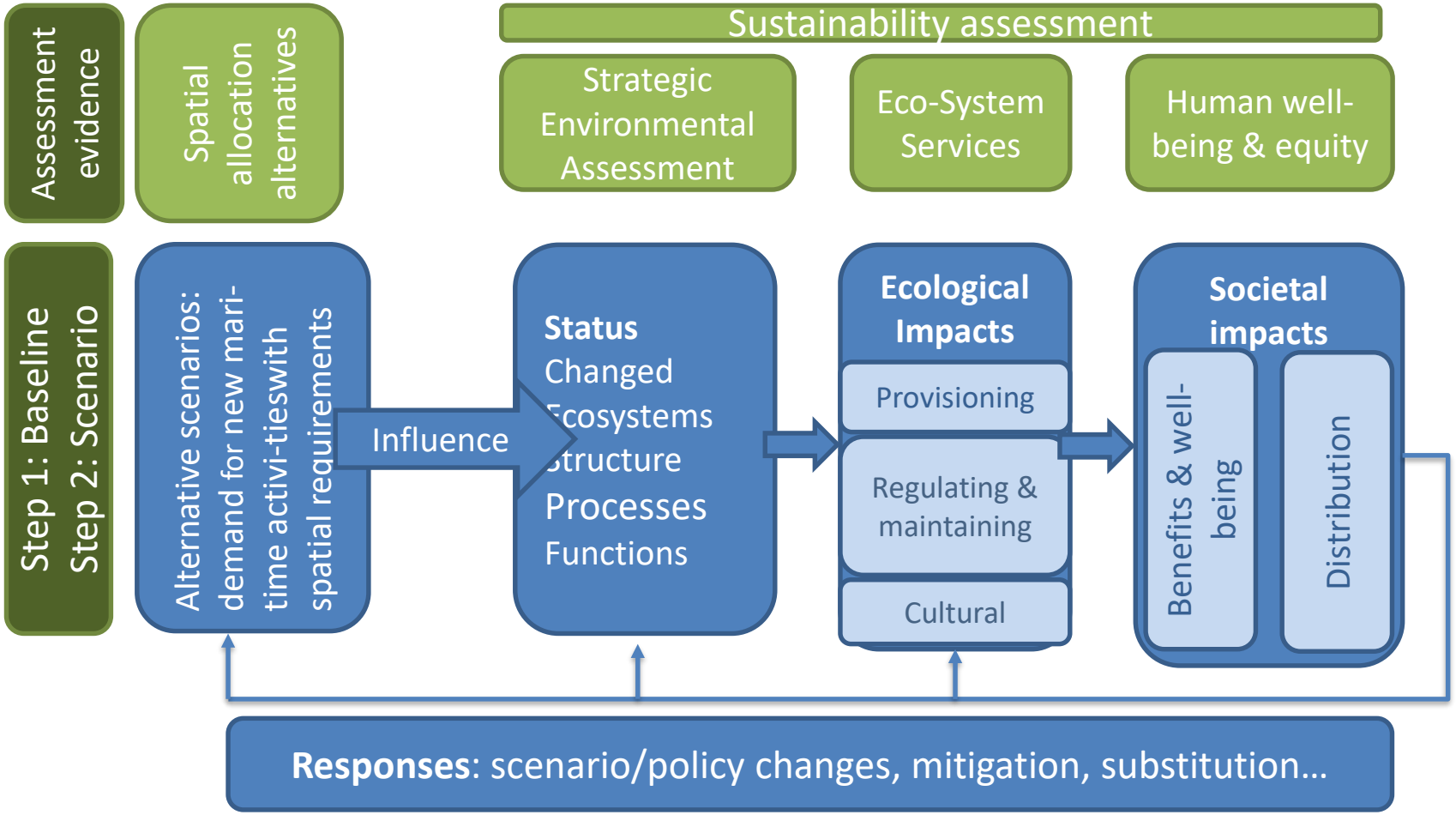

WP 5 Baltic Explorer – Spatial Decision Support tool for MSP

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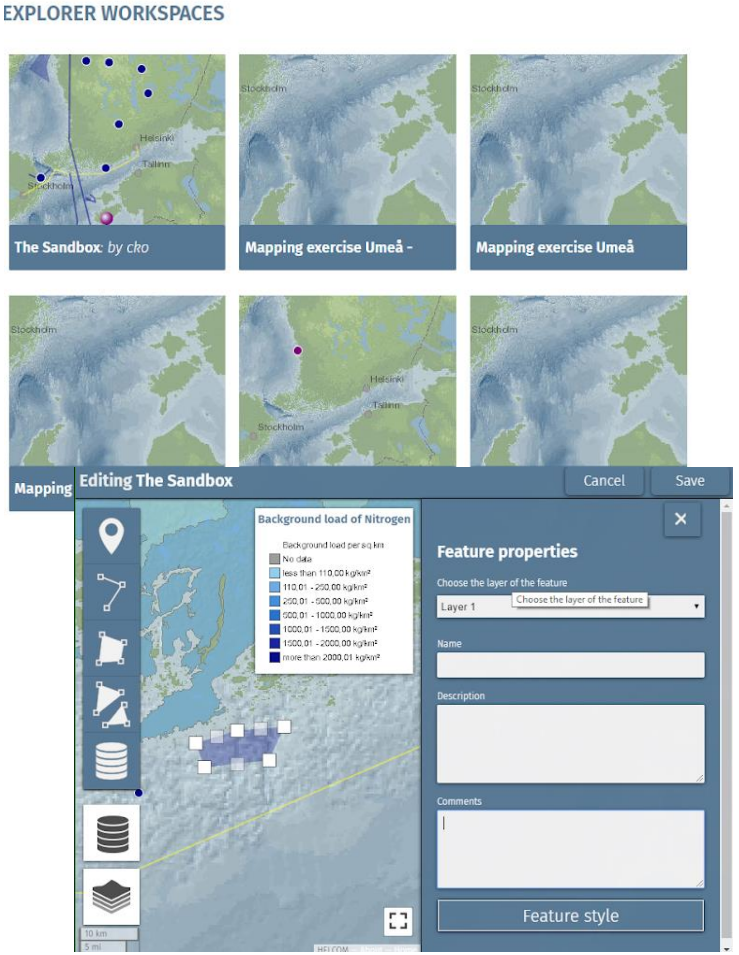
- Multiple planned functionalities:
  - **Interactive, for collaborative planning**
  - **Mobile phone ⇔ large touch-screen**
  - **Explore data**
  - Cumulative impact assessment, suitability & co-location analysis
- Web application, free online access
- Open-source at end of project
- More coming & testing: FGI & workshop!



WP6 3 BSR Case studies @ different scales

The BONUS BASMATI project

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three Baltic Sea case studies.

Tourism & shipping
Business perceptions

Marine protected areas

Aquaculture

Case Studies

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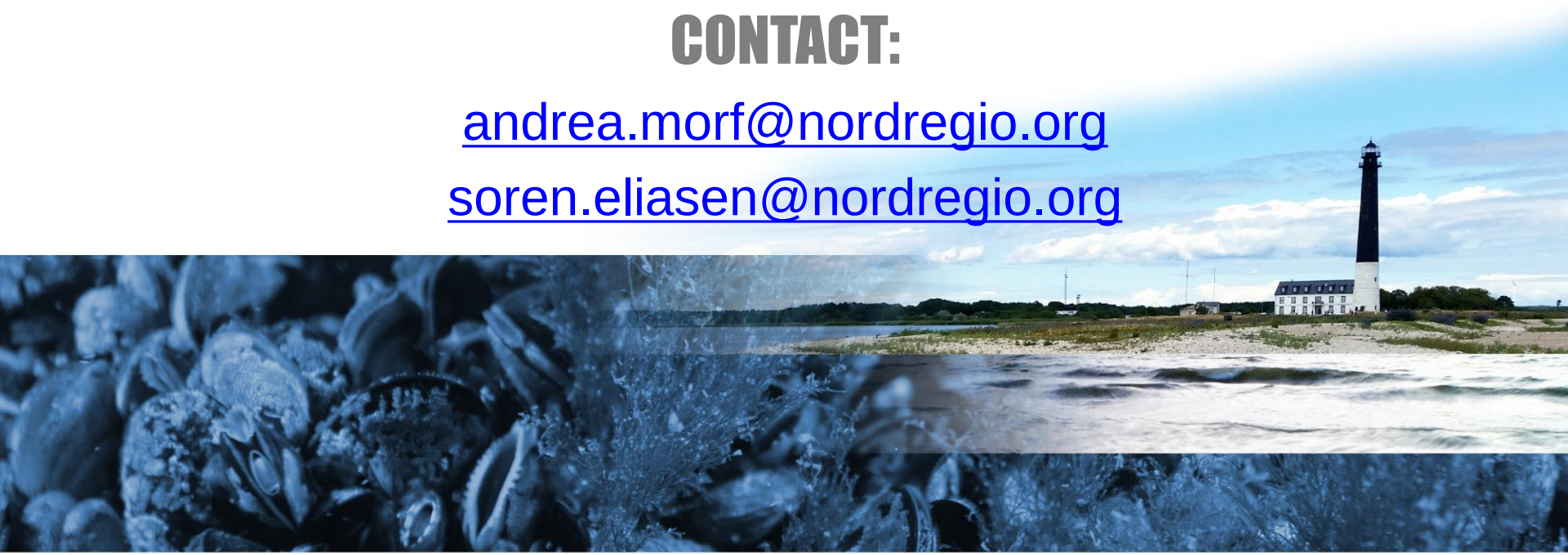
THANKS A LOT!

CONTACT:

andrea.morf@nordregio.org

soren.eliasen@nordregio.org



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Extra slides - in case needed

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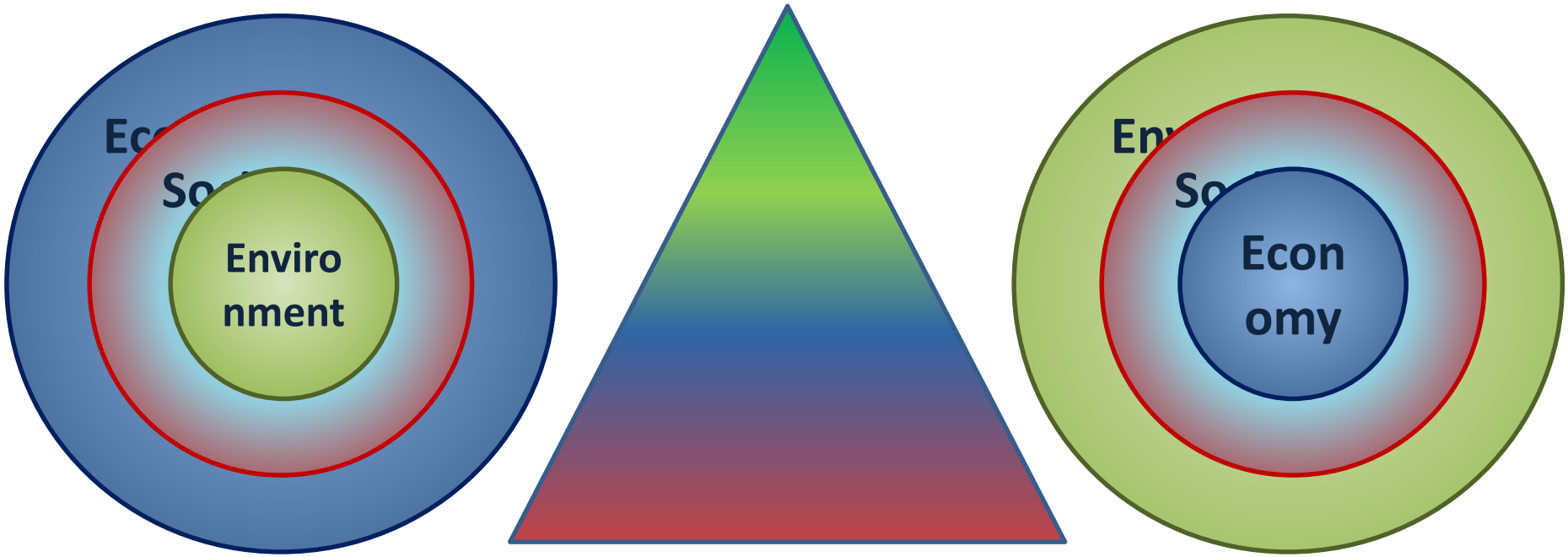
Values: Balancing Sustainability Pillars

What sets boundaries?

=> Different views!



WP 6 Case studies

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- The **Latvian case study** aims to support a MPA designation process that, besides meeting the conservation goals, would consider social and economic issues to ensure that MPA sites are, chosen to maximize ecological, social and economic benefits while minimizing associated costs.
- The **Danish-German case study** on aquaculture investigates mussel farming opportunities in the south-western Baltic Sea.
- The **Pan-Baltic case study** takes a stakeholder and business perspective by focusing on two Baltic-wide business sectors – maritime transport and marine and coastal tourism.

BONUS BASMATI produces knowledge on:

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- coastal and marine ecosystem services
- spatial scenario assessment frameworks
- sustainability indicator assessment
- decision support systems for planning scenarios
- interactive planning and stakeholder involvement
- societal needs in planning

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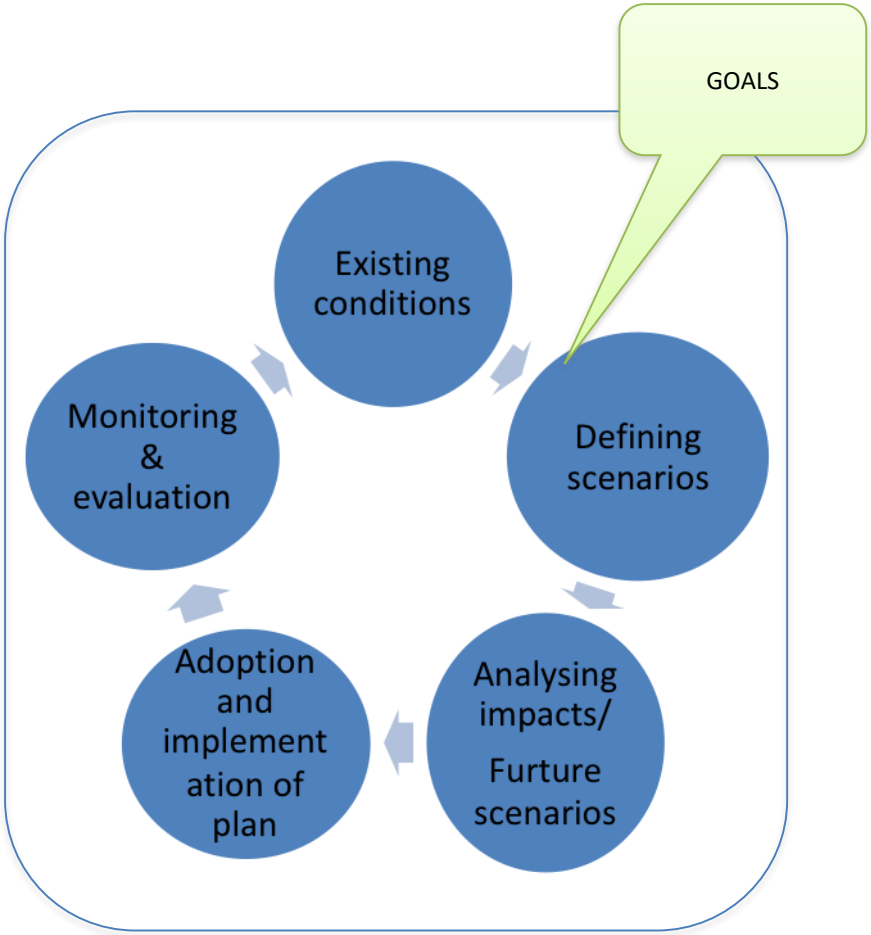
MSP steps

MSP is a **public process** of analyzing and allocating the spatial and temporal distribution of human activities in marine areas to achieve **ecological, economic, and social objectives** that usually have been specified through a political process (UNESCO-IOC, 2012).

Guidelines (e.g. Helcom-VASAB) recommend assessment of different plan alternatives in an interactive process with stakeholders