



Co-funded by the  
European Maritime and  
Fisheries Fund of the  
European Union

# Literature review and information collection

Economic, social and cultural impacts and existing models  
in national MSP in the Baltic Sea region and beyond

Swedish Agency  
for Marine and  
Water Management



DANISH MARITIME AUTHORITY



REPUBLIC OF ESTONIA  
MINISTRY OF FINANCE



Nordregio



SATAKUNTALIITTO  
The Regional Council of Satakunta



Ålandskapsregering

# Aim of the literature review and information collection

Supporting preparation of recommendations on developing a **framework** for social and economic analysis for the purposes of MSP.

- The review is **not a separate deliverable**, but it will be published on project website anyway, so that planners can make use of it.
- This is a **working document**, and can be revised and updated as needed

# Literature review presents

- **Previous experiences** in conducting regional economic and social analysis in the Baltic Sea
- The **role** of assessing economic, social and cultural impacts in **MSP**
- **Coherent view of current knowledge** via a systematic literature review
- Information collection on **current practices** of applying ESA in national MSP
- Comparing the review and information collection results shows **the knowledge gaps**

# Previous experiences in conducting regional economic and social analysis in the Baltic Sea

## USE OF MARINE WATERS ANALYSIS

Contribution of selected **activities** on regional and national economies and human welfare

### APPROACHES

- 1) Marine water accounts
- 2) Ecosystem services

### ACTIVITIES & SERVICES

- 1) Fish and shellfish harvesting
- 2) Aquaculture
- 3) Tourism and leisure
- 4) Energy production
- 5) Transport

### MAIN INDICATORS

- 1) Gross value added
- 2) Employment
- 3) Consumer surplus

## COST OF DEGRADATION ANALYSIS

Impact on citizens' well-being of not achieving the **good environmental status**

### APPROACHES

- 1) Thematic
- 2) Ecosystem services

### THEMES & SERVICES

- 1) Eutrophication
- 2) Recreation
- 3) Biodiversity (underwater meadows and foodwebs)

### INDICATORS

- 1) Willingness to pay
- 2) Consumer surplus

# The **role** of assessing economic, social and cultural impacts in **MSP**

- The EU MSP directive requires taking into account **environmental, economic and social aspects in national MSP** ➔ Considerable freedom in choosing the approaches
- The **ecosystem approach** is emphasized in MSP
- ESA is needed to **fully apply the ecosystem approach** and to **implement ecosystem based management**
- This has also been acknowledged in HELCOM **Ministerial Declaration** this year!

# The **role** of assessing economic, social and cultural impacts **in MSP**

Comprehensive MSP planning requires consideration of **all aspects of value associated with marine biodiversity**

- Extractive uses
- Non-extractive uses

There is a **tendency to focus on the extractive uses**

- This may be due to lack of information on the welfare effects and value of non-extractive uses

# Coherent view of current knowledge via a systematic literature review

Systematic review of the existing **scientific and grey literature**

Literature searches recovered **348 articles** and reports: Manual reading of abstracts

Relevant articles had to describe spatial assessment of economic, social or cultural impacts: **43 documents** were deemed relevant and subject of closer qualitative analysis

**16 documents**  
considering Baltic  
Sea region

**27 documents**  
described other sea  
areas



# Coherent view of current knowledge:

Methods and tools applicable for assessing the **economic** impacts in MSP:

- Costs-benefit analysis
- Cost-effectiveness analysis
- Environmental-economic accounting
- Environmental impact assessment





# Coherent view of current knowledge

## Methods and tools applicable for assessing the **socio-cultural** impacts in MSP:

- Questionnaires and personal interviews
- Generic feature mapping
- Participatory mapping
- Observation approaches
- Document research: Viewshed analysis
- Expert based approach
- Assessing social capital in the context of ecosystem services



# Information collection on **current practices** of applying ESA in national MSP

**Questionnaire was sent out to Pan Baltic Scope contacts**

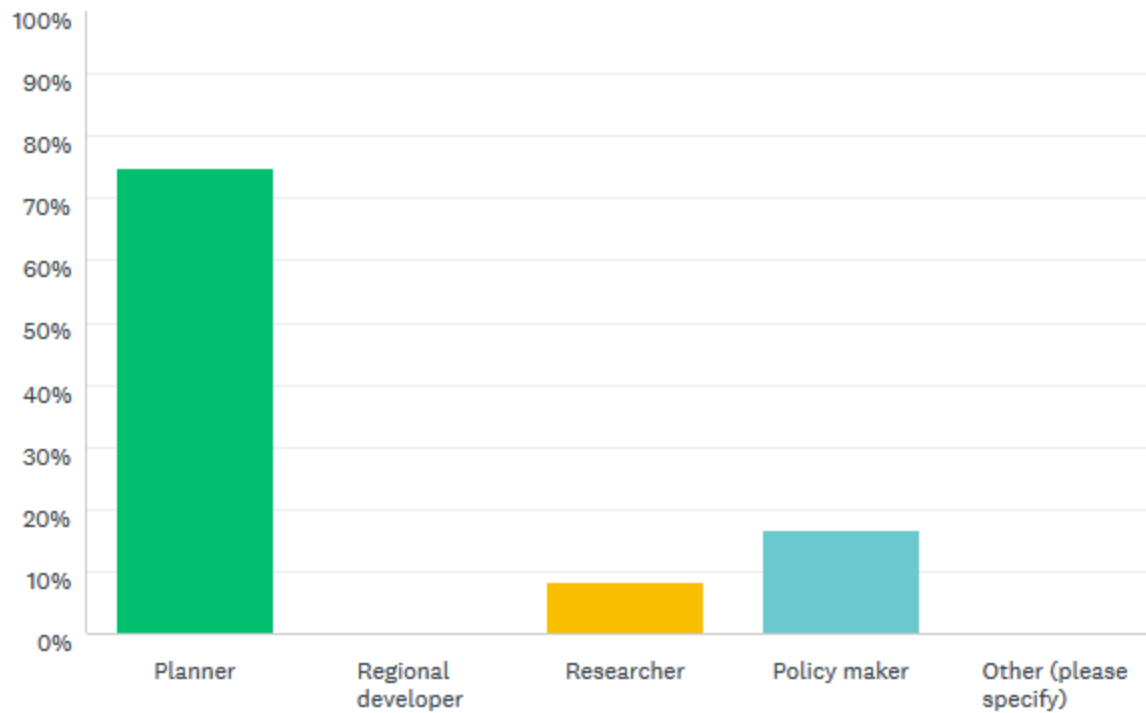
**Conducted via Survey Monkey**

**The information collection was open 9-19 November 2018**

- **11 respondents**
- **Mostly planners**
- **All other Baltic Sea region countries replied except Russia**

## What is your role in maritime spatial planning?

Answered: 12 Skipped: 0

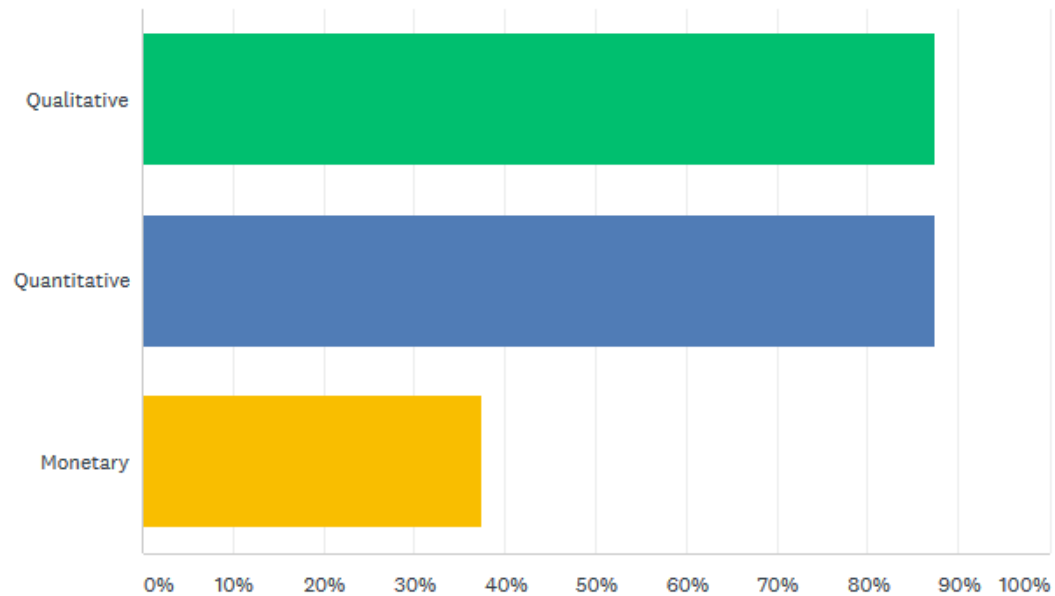


Economic and social analyses questionnaire

# Type of assessment

In relation to assessing sectoral interests, please indicate the type of ...

Answered: 8 Skipped: 4

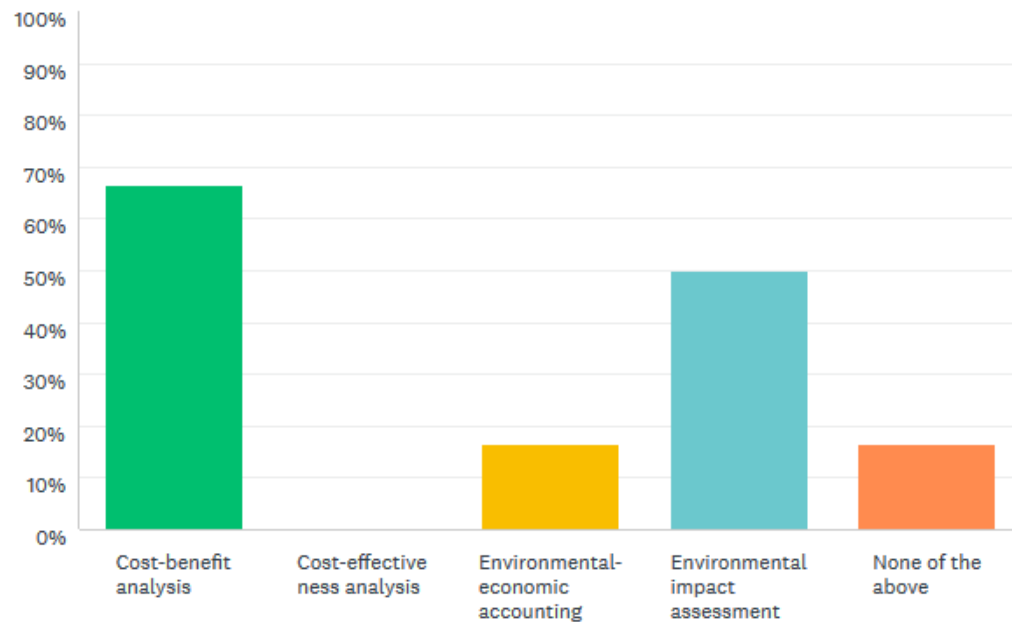


Economic and social analyses questionnaire

# Economic impacts

If there are existing tools, methods or approaches to assess economic...

Answered: 6 Skipped: 6

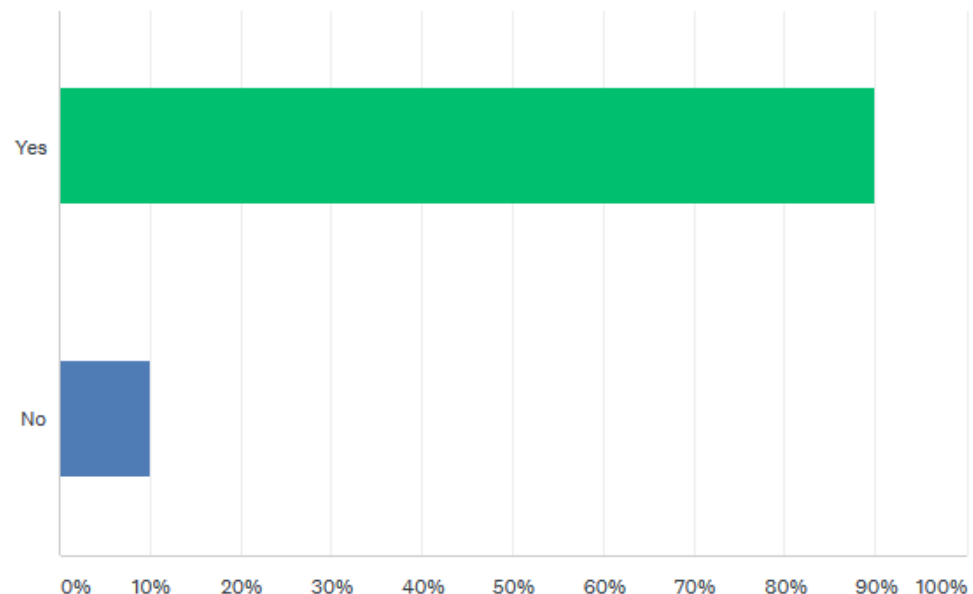


Economic and social analyses questionnaire

# Are marine and coastal socially and culturally important objects mapped?

Are the marine and coastal socially and culturally important objects a...

Answered: 10 Skipped: 2

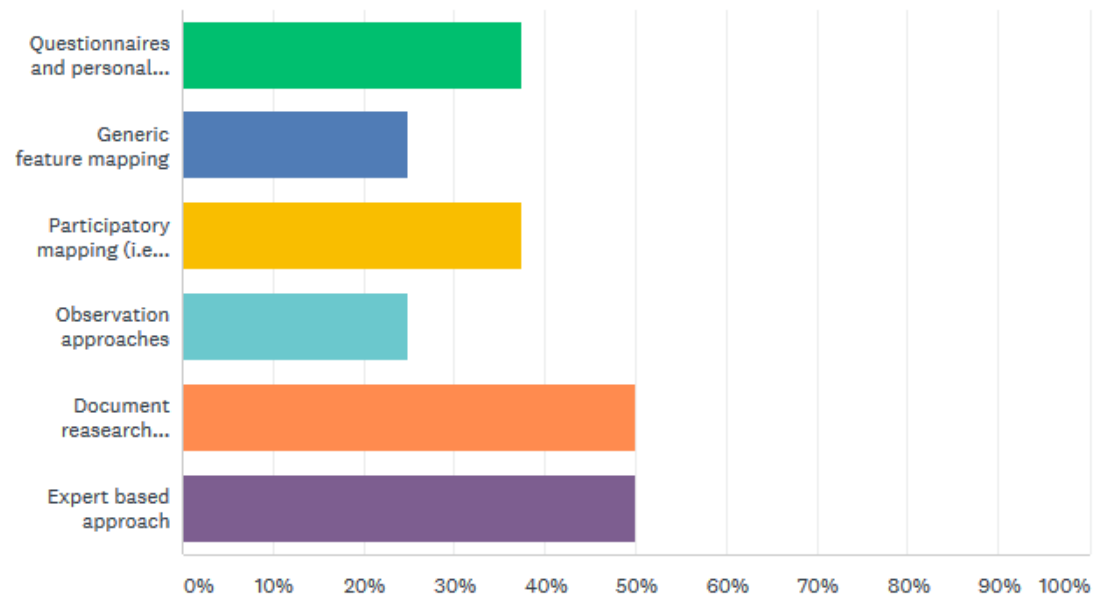


Economic and social analyses questionnaire

# Marine and coastal socially and culturally important objects

If the marine and coastal socially and culturally important objects an...

Answered: 8 Skipped: 4



Economic and social analyses questionnaire