





Multi-method Assessment for Resilient Ecosystem Services and human-nature system integration (MARES)

Presentation of the main results

BONUS MARES has been funded from BONUS (Art. 185), funded by the EU















About BONUS MARES -project

- Sustainable management of the marine environment requires better understanding on the socio-economic benefits that ecosystems provide.
- Improved understanding is also needed on the interactions between environmental change and the capability of ecosystems in providing ecosystem services.
- MARES responded to the challenge by reviewing studies on ecosystem services and their valuation methods. A big step was developing an open access tool which brings this information available for decision making.
- Research was conducted during 2018-2020
- Research Partners
 - Pellervo Economic Research PTT, Finland
 - Estonian Marine Institute / University of Tartu, Estonia
 - GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany
 - e2 Research, Finland

















BONUS MARES -project

- Enhanced science integration in the field of ecosystem services
- Created an interactive web-based tool to support decision making

Main outputs:

- 1. Systematic Literature Review
 - 2. Geospatial Toolkit







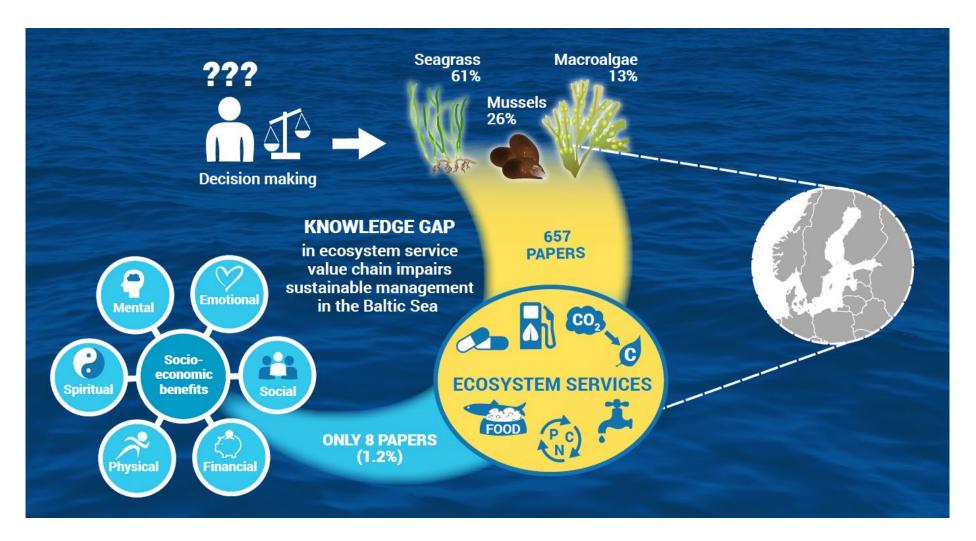








Systematic literature review revealed a knowledge gap

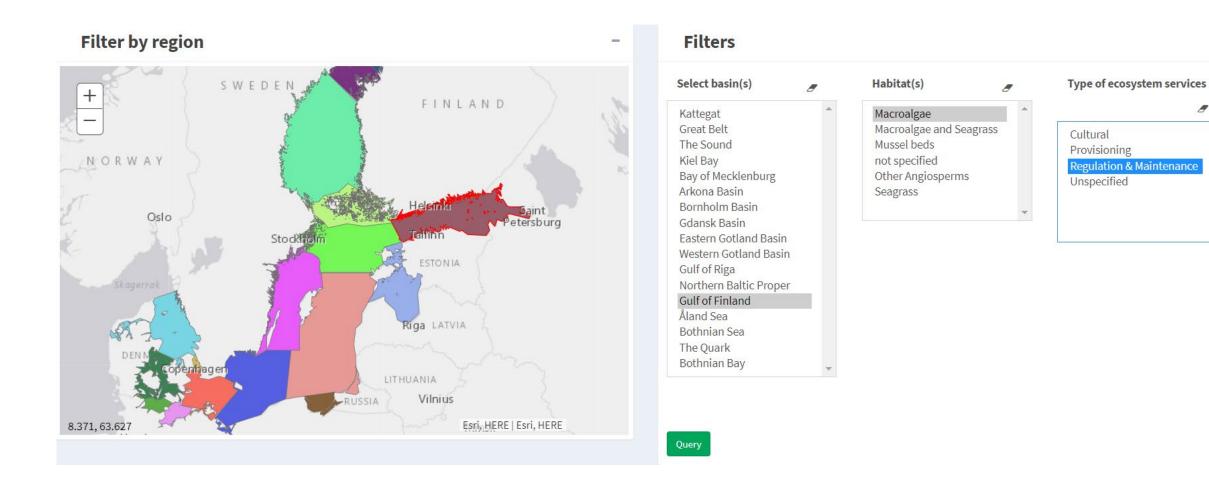








Geospatial toolkit facilitates exploration of the review results...

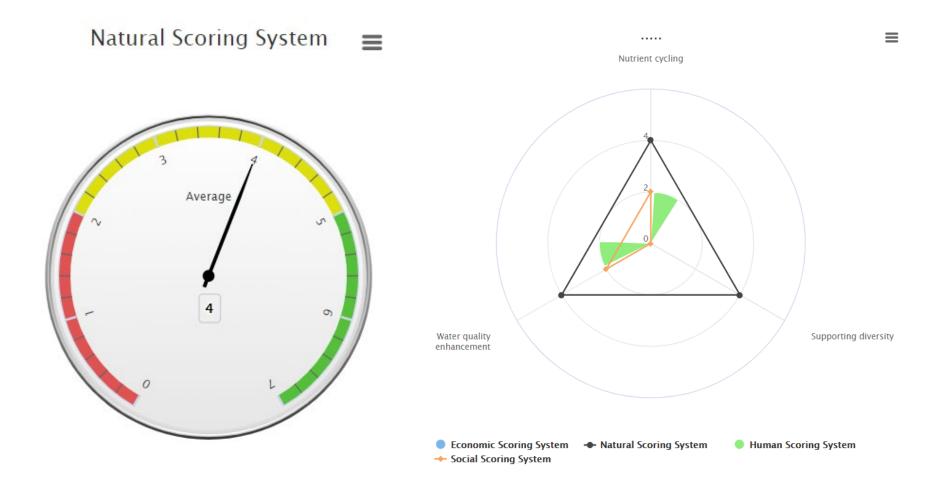








...with varying illustrations









... as well as adding your information on ecosystem service and their valuation methods

Add your feedback Ecosystem service * **Multidimension method** Economic score * Do not know Description of ecosystem service Natural score * **Economic dimension methods** Do not know Market price (Economic) Human score * Natural dimension methods Habitat Do not know Spatial proxy methods (Biophysical) Human and social dimensions methods Social score * Species Preference assessment (Socio-cultural) Do not know Region Reference *







...and exploring the current status of knowledge on ecosystem services' valuation methods based on the Eco-GAME matrix

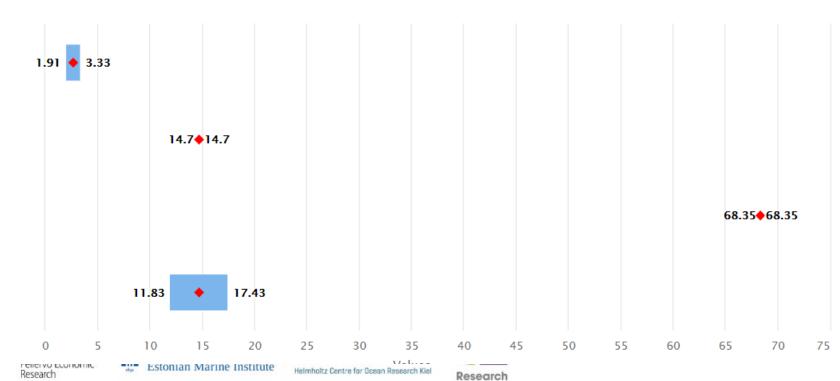


Natural water purification & Market price (Economic) Integrated modelling framework (Biophysical) Preference assessment (Socio-cultural)

Provision of resource & Market price (Economic) Integrated modelling framework (Biophysical) Preference assessment (Socio-cultural)

Natural water purification & Market price (Economic) Preference assessment (Socio-cultural) Integrated modelling framework (Biophysical)

Carbon sequestration & Market price (Economic) Statistical models (Biophysical)









Everything is captured in 3 Policy Briefs









MARES Website and Publications

https://sisu.ut.ee/mares/about-mares

MARES Geospatial Toolkit

http://www.sea.ee/esq/review/main#

http://www.sea.ee/esq/participatory/tool







