

SRCH: Strategic Research for the Chesapeake

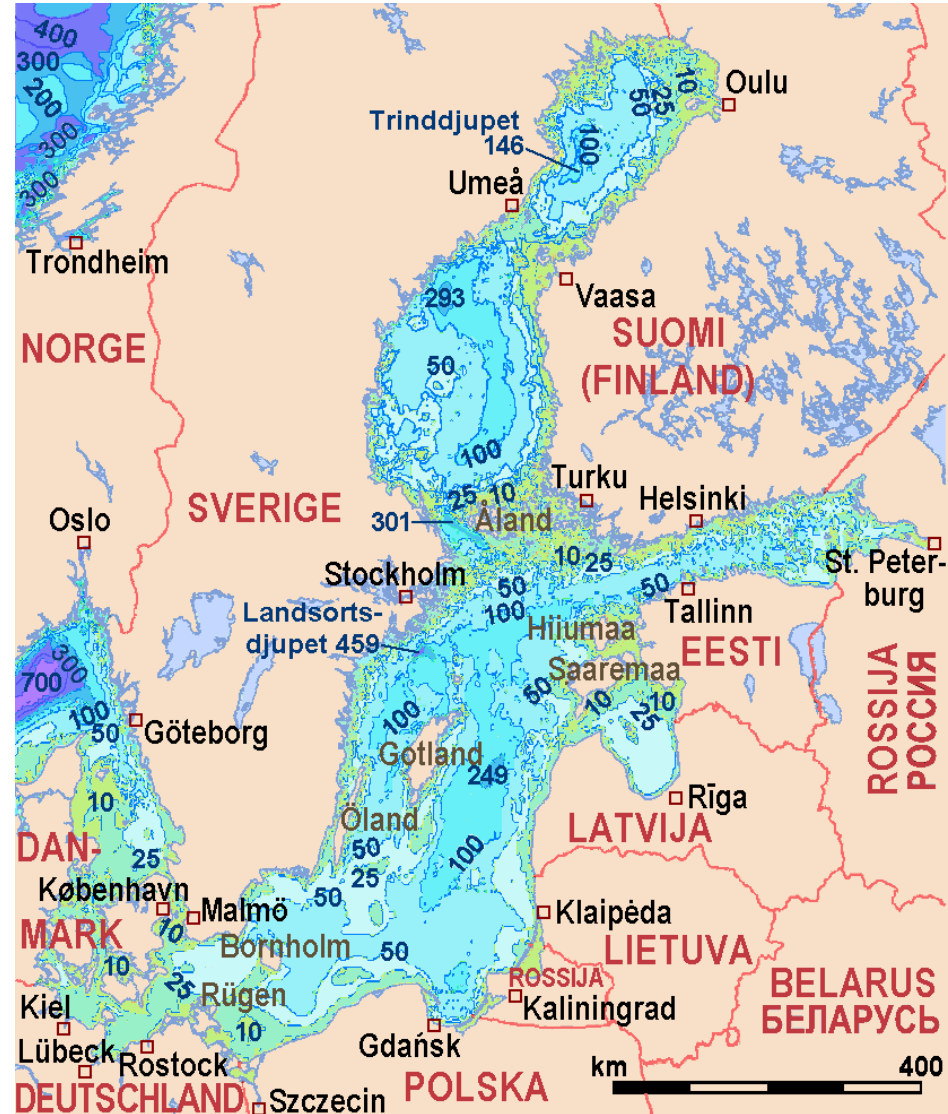
Learning from the Baltic

Don Boesch

Presentation to CBP STAC

December 6, 2016

Baltic Sea



BONUS VISION

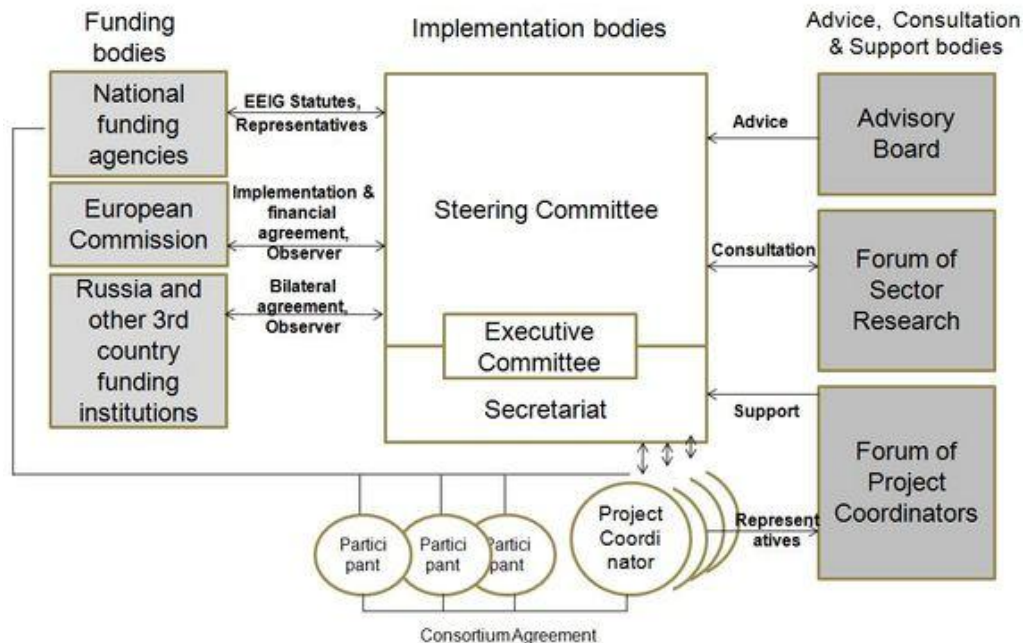
Economically and ecologically prosperous Baltic Sea region where resources and goods are used sustainably and where the long-term management of the region is based on sound knowledge derived from multidisciplinary research.



www.bonusportal.org | www.bonusprojects.org

BONUS History & Structure

- 2003-2008 BONUS ERA-NET
- 2009-2011 BONUS+ 22m €
- 2011-2017 BONUS EEIG 100m €



Funders

European Commission
 Innovation Fund Denmark
 Estonian Research Council
 FiRD Coop (Academy of Finland)
 Forschungszentrum Jülich
 Beteiligungsgesellschaft (Germany)
 Ministry of Education & Science Latvia
 Research Council of Lithuania
 National Centre for Research &
 Development (Poland)
 Swedish Agency for Marine & Water
 Management
 Swedish Environmental Protection Agency
 FORMAS (Sweden)

Strategic Plan and Objectives



1. Understanding the Baltic Sea ecosystem structure and function
2. Meeting the multifaceted challenges in linking the Baltic Sea with its coast and catchment
3. Enhancing sustainable use of coastal and marine goods and services of the Baltic Sea
4. Improving the capabilities of the society to respond to the current and future challenges directed to the Baltic Sea region
5. Developing improved and innovative observation and data management systems, tools and methodologies for marine information needs in the Baltic Sea region

www.bonusportal.org

Closely coordinated with the **Baltic Marine Environmental Commission (HELCOM)**

BONUS Projects 2014-2018

Ecosystem structure & function

- 1.1 Dynamics of biogeochemical processes
- 1.2 Changing biodiversity
- 1.3 Food web structure and dynamics
- 1.4 Impacts of hazardous substances

CURRENT STATUS OF THE KEY THEMES' COVERAGE

BAMBI, BIO-C3

Linking the Sea with coast & catchments

- 2.1 Changes in catchment land cover patterns
- 2.2 The role of the coastal systems
- 2.3 Integrated coastal management
- 2.4 Eco-technological approaches

SOILS2SEA

COCOA

BALTCOAST

MICROALGAE, OPTITREAT, PROMISE, SWERA, ZEB

Sustainable use of goods & services

- 3.1 Maritime risk analysis and management
- 3.2 Effects of air and water pollution by shipping
- 3.3 Improving stock assessments, spatial heterogeneity of stocks
- 3.4 Evaluation framework for fisheries management
- 3.5 Sustainable aquaculture in the Baltic Sea

STORMWINDS

SHEBA

INSPIRE

Societal responses to current & future directions

- 4.1 Governance structures, performance and policy instruments
- 4.2 Linking ecosystem goods and services to human lifestyles and well-being
- 4.3 Maritime spatial planning

CHANGE, GO4BALTIC, GOHERR, MIRACLE

BALTICAPP

BALTSPACE

Observation & data management

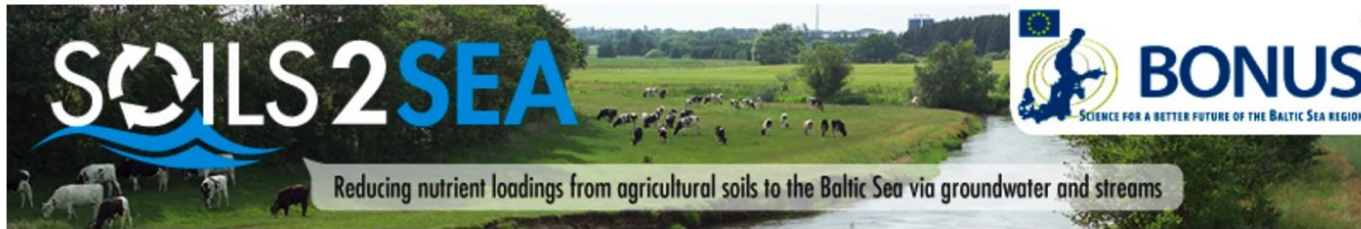
- 5.1 Integrated monitoring programmes
- 5.2 Innovative measurement techniques
- 5.3 User-driven ICT services

BLUEPRINT

AFISMON, FERRYSCOPE, FISHVIEW, HARDCORE, PINBAL

ANCHOR, ESABALT, GEOILWATCH

Examples of BONUS Projects



Young Scientist Training & Networking

- International summer schools
- Congresses
- Communications training
- Blogs
- Young Scientist Club



BONUS Website

Highlight

Available for downloading



News

21.11.2016
Call for abstracts and registration is now open for the BONUS Symposium 2017, 17-19 October 2017, Tallinn

18.11.2016
SAVE THE DATE – celebrating 10 years of BONUS on 3-4 May 2017, Helsinki

10.11.2016
The heads of BONUS, HELCOM, VASAB and Baltic Earth in 'hot seats' at the EUSBSR Strategy Forum in Stockholm

08.11.2016
12 project proposals from the 'BONUS call 2015: Blue Baltic' move to grant agreement negotiations

25.10.2016
SAVE THE DATE – BONUS Symposium 2017 on 'Science delivery for sustainable use of the Baltic Sea living resources', 17-19 October 2017, Tallinn

20.10.2016
The BONUS e-bulletin is back online

[All news](#)

News from projects

04.12.2016
Documentary: BONUS SOILS2SEA: Reducing Nutrient Loadings into the Baltic Sea

28.11.2016
Register now! Course in Decision Analysis for Environmental Management, February 2017, Helsinki.

11.11.2016
New BONUS MIRACLE publication

Project blogs



02.12.2016 14:57
Stakeholder Workshop in Denmark (The Social Side of SOILS2SEA - BONUS SOILS2SEA)
[Read more](#) | 0 Comments

[BONUS projects' website](#)

Strategic research agenda



Developed together with over 800 stakeholders across the Baltic Sea region, this serves as the backbone of the BONUS programme.

[Read more](#)

Call information



BONUS call 2015: Blue Baltic closed in March 2016 for independent evaluations. The final outcome of projects to be funded by late 2016.

[Read more](#)

Projects



Find out more about projects funded from BONUS calls open 2012-2015, as well as BONUS+ pilot projects implemented 2009-2011.

[Read more](#)

Participants



Find out more about implementing BONUS projects, including scientific and financial management and other information.

[Read more](#)

Young scientists



NEW! Contribute to the newly created 'Baltic Sea futures' blog by 1 November 2016 and have your say at the EUSBSR Annual Forum 2016!

[Read more](#)

Events



In horizon: Celebrating the 10th anniversary of BONUS, the 11th Baltic Sea Science Congress...

[Read more](#)

Publications



BONUS reports, newsletter, briefings, brochure and other can be obtained in soft copy downloads or in hard copy by post.

[Read more](#)

Tweets from @BONUSBaltic

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Excellent new video by BONUS SOILS2SEA: Reducing Nutrient Loadings into the Baltic Sea

[Embed](#) [View on Twitter](#)

Future of BONUS



Strategic Research for the Chesapeake (SRCH)

The Need

- Our world-class research capacity cobbles together funding from regional & national sources
- Except for limited agency programs (e.g. USGS) there is no strategic research enterprise to address goals of CBP
- Intra-regional collaboration is underdeveloped
- Much remains to be done to achieve restoration goals & tackle issues of sustainability, including climate change, rising seas & social developments

Steps Forward

- Assess state of Bay-related research funding
- Get input from & build support in scientific community
- Discuss with agencies how this SRCH can add long-term value w/o competing with existing programs
- Explore opportunities for Federal funding with Congress and Administration
- Develop SRCH strategic plan



Strategic Research for Chesapeake must:

1. Have a highly **strategic focus** determined through consultation among leaders in the scientific community, user organizations and funders;
2. Be based on **calls for proposals** that **address strategic needs** while **allowing for innovation** in the research approach;
3. Inspire and facilitate **interdisciplinary research**, especially across the natural and social sciences;
4. Encourage **regional collaboration** across institutions and states in the region;
5. Produce **peer-reviewed publications** that ensure highly credible results and contribute to global knowledge; and
6. Work with institutions and boundary organizations to achieve efficient and effective **push** (science affects management approaches) and **pull** (science responds to critical management needs);
7. Create a **virtuous circle**, building the capacity, competitiveness, and responsiveness of the regional scientific and technical community.