BONUS
for safer and cleaner shipping in the Baltic

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What is BONUS?

An Article 185 TFEU action implemented jointly by eight Baltic Sea states and the European Union

MISSION: Integrating the Baltic Sea system research into a durable, cooperative, interdisciplinary and focussed transnational programme in support of the region’s sustainable development

12.02.2016
SIMSA 2016 Workshop, Helsinki
Five BONUS Strategic objectives are:
1. Understanding the Baltic Sea ecosystem structure and functioning
2. Meeting the multifaceted challenges in linking the Baltic Sea with its coast and catchment area
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
Altogether eleven challenges for achieving sustainable use of the Baltic Sea ecosystem goods and services have been identified in the BONUS SRA:

- Evaluating and developing relevant policies and collective governance
- Adapting to a more sustainable way of living
- Adapting to the effects of climate change
- Restoring good environmental status of the Baltic Sea and its coasts
- Mitigating eutrophication that affects today nearly the entire Baltic Sea
- Achieving sustainable and safe use of exploited coastal and marine ecosystem goods and services
- Planning of the use of marine space that fulfils the intensifying and diversifying needs from society
- Making fisheries management effective in order to secure the stability of the ecosystem and reproduction capacity of the Baltic Sea fish stocks
- Achieving safe maritime traffic imposing no risks to the environment
- Minimising the environmental threat of increasingly diversified use of chemicals and new materials
- Creating cost-efficient environmental information system

See BONUS publication No. 14.
Three themes particularly relevant to safe and clean shipping in the Baltic are highlighted.

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<td>1.1 Dynamics of biogeochemical processes</td>
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<td>1.2 Changing biodiversity</td>
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<td>1.4 Impacts of hazardous substances</td>
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<td>2.1 Changes in catchment land cover patterns</td>
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<td>2.2 The role of the coastal systems</td>
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<td>2.3 Integrated coastal management</td>
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<td>2.4 Eco-technological approaches</td>
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<td>3.1 Maritime risk analysis and management</td>
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<td>3.2 Effects of air and water pollution by shipping</td>
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<td>3.3 Improving stock assessments, spatial heterogeneity of stocks</td>
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<td>3.4 Evaluation framework for fisheries management</td>
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<td>3.5 Sustainable aquaculture in the Baltic Sea</td>
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<td>4.1 Governance structures, performance and policy instruments</td>
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<td>4.2 Linking ecosystem goods and services to human lifestyles and well-being</td>
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<td>4.3 Maritime spatial planning</td>
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<td>5.1 Integrated monitoring programmes</td>
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<td>5.2 Innovative measurement techniques</td>
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The expected outcomes: 3.1

- Methods, tools and recommendations for multidisciplinary shipping risk analysis
- Analysis of the effect of situational awareness on risk levels and selecting the safest route
- Methods and tools for the prevention of maritime accidents and crisis management
- Evaluation of the risks and providing solutions for mitigation of the risks associated with the offshore energy developments
The expected outcomes: 3.2

- Improved knowledge on effects of the ships’ pollution on the Baltic Sea ecosystem
- Assessments of the effect of environmentally improved operations of vessels, including reduction of emissions and noise
- Analysis of the economic, societal and ecological impacts of environmental requirements for shipping
The expected outcomes: 5.3

- New information and communication technology-based tools and services to address the contemporary and future user-driven marine and maritime information needs
Call 2015 Blue Baltic covers themes 1.3, 1.4, 2.4, 3.5, 4.2, 4.3, 5.1, 5.2 and 5.3. Proposal submission deadline is 10 March 2016. The new projects are expected to start operating in January 2017, the earliest.
Blue circles denote BONUS ‘research’ proposals and orange circles denote BONUS ‘innovation’ projects. Arrowas indicate cross-project cooperation interests as expressed by consortia.
Clustering and collaboration among the BONUS projects

Three guiding principles:

- ‘bottom-up clustering’: the most productive and successful are those activities, which are initiated by motivated project partners

- ‘clustering with purpose’: each clustering activity must have its specific purpose and objective that would go beyond the tasks of individual projects and strengthen the overall programme-level impact

- ‘variable configuration of clusters’: as most of the BONUS projects are multifaceted, they can form different configurations of clusters in order to achieve one or another objective
A clustering activity contributing to the update of HELCOM's Integrated thematic assessment on maritime activities and response to pollution at sea in the Baltic Sea region (previously issued in 2010, BSEP 123)

A sub-task of this activity could be summarising the innovative input towards enhancement in situation awareness and navigational information support in order to achieve safe transportation of people and goods in the Baltic Sea. Preliminarily timing: September 2016, Tallinn.

BONUS shipping cluster have had an initial discussion on cooperation possibilities during the IWNTM conference, August 2015. HELCOM has currently initiated drafting Integrated assessment on maritime activities. There is an agreement with HELCOM Secretariat that the draft will be sent for comments by BONUS shipping projects (through BONUS secretariat). BONUS will arrange a seminar presenting the findings of its projects at (or as back-to-back) the 16 HELCOM Maritime WG meeting, Tallinn, 5-6 September 2016.

Travel costs for contributing INNO project representatives (max 1 per project) can be covered by BONUS. (Total limit ca. EUR 2500).
THANK YOU!

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