




Strategic Research Agenda development within BONUS - the Joint Baltic Sea Research and Development Programme

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What is BONUS?



High excellence and relevance SRA, cooperation, human capacity building, policy makers and stakeholders

BONUS - Joint Baltic Sea research and development programme

- funded by the eight EU Member States and the European Community
- total funding of EUR 100 million for years 2011-2017

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

BONUS MISSION

To integrate the Baltic Sea System research into a durable, cooperative, interdisciplinary, well integrated and focused multinational programme in support of the region's sustainable development

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<p>(2004-2008)</p> <p>BONUS ERA-NET</p> <p>Pre-conditions for a joint Baltic Sea research programme</p> <p style="text-align: center; font-size: x-small;">ERANET</p>	<p>(2007-2011)</p> <p>BONUS+</p> <p>A joint call to test national funding institutions' collaboration mechanisms</p> <p style="text-align: center; font-size: x-small;">ERANET Plus</p>	<p>(2010-2012)</p> <p>BONUS strategic phase</p> <p>Strategic research agenda 2011-2017, developing framework for calls</p> <p style="text-align: center; font-size: x-small;">Article 185 of the EU Treaty</p>	<p>(2012 -2017)</p> <p>BONUS implementation phase</p> <p>Running of collaborative programme of the Baltic Sea states. Joint calls, deep integration of research policies, infrastructures, training programmes, end-user focused dissemination</p>
			<p>(2018 -2022??)</p> <p>BONUS in Horizon 2020??</p> <p style="text-align: center; font-size: 2em;">??</p>

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BONUS Decision



DECISION No 862/2010/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 September 2010 on the participation of the Union in a Joint Baltic Sea Research and Development Programme (BONUS) undertaken by several Member States

BONUS EEIG shall ...

- establish appropriate stakeholder consultation platforms including representation from all relevant sectors
- establish a policy-driven Strategic Research Agenda
- regular updating of the Strategic Research Agenda and prioritisation of research themes to take account of emerging needs and the results and outcome of the previously implemented projects and on the basis of the wide stakeholder consultation procedures

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BONUS SCIENCE FOR A BETTER FUTURE OF THE BALTIC SEA REGION

BONUS SRA development

2006	2010	2011	2013	2014
BONUS-169 Science Plan and Implementation Strategy	Outline of the BONUS-169 Joint Baltic Sea Research Programme	BONUS Strategic Research Agenda 2011-2017	Policy framework analysis in the fields relevant to the BONUS programme	BONUS Strategic Research Agenda 2014-2015
Focus on marine environment		Inclusion of the catchment and coasts		Focus on sustainability???

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SPIS 2006

Seven research themes:

- LINKING SCIENCE AND POLICY
- UNDERSTANDING CLIMATE CHANGE AND GEOPHYSICAL FORCING
- COMBATTING EUTROPHICATION
- ACHIEVING SUSTAINABLE FISHERIES
- PROTECTING BIODIVERSITY
- PREVENTING POLLUTION
- INTEGRATING ECOSYSTEM AND SOCIETY

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'Pilot' BONUS+ call in 2007

- **Theme: Ecosystem approach to management**
- **16 projects are funded during 2009-2011 with participation of over 100 research institutes**
- **Total funding EUR 22 million; 2/3 Member States, 1/3 by FP7**
 - Contributions to 37 consultations
 - Members or observers in 570 stakeholder and scientific committees
 - 49 modifications made to policy documents and action plans
 - 153 suggestions for designing, implementing and evaluating the efficacy of pertinent public policies and governance

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Emphasis of the SRA



- Ecosystem approach – both marine and coastal aspects
- Interdisciplinary – incl. natural sciences, socio-economics
- Transnational – region-wide, cross-national approach
- Fit-for-purpose – demand for the research in the society, region
- Policy-driven – improvement and/or enhancement of the effectiveness of relevant policies
- Stakeholder and end-user focussed - integral part of the agenda, take up and use of the project results by end-users according to planned knowledge transfer measures

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Steps in creating the SRA



2010:

- **Summer** : open internet poll – 200 suggestions
- **Autumn**: stakeholder analysis & appointment of BONUS advocates
- **October**: BONUS Forum – ministries across sectors
- **October – February 2011**: national workshops in all BONUS countries

2011:

- **March**: Strategic Orientation Workshop – 70 experts
- **August**: approval of the SRA by BONUS Steering Committee

Altogether > 800 stakeholders involved

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Structure of the research agenda

Five strategic objectives:

Understanding the Baltic Sea ecosystem structure and functioning

19 themes:

• Biogeochemical processes	• Biodiversity
• Food webs	• Hazardous substances

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Structure of the research agenda

Five strategic objectives:

Understanding the Baltic Sea ecosystem structure and functioning

Meeting the multifaceted challenges in linking the Baltic Sea with its coast and catchment area

19 themes:

• Biogeochemical processes	• Biodiversity
• Food webs	• Hazardous substances
• Catchment land cover	• Coastal systems
• ICZM	• Eco-innovation

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Structure of the research agenda

Five strategic objectives:

- Understanding the Baltic Sea ecosystem structure and functioning
- Meeting the multifaceted challenges in linking the Baltic Sea with its coast and catchment area
- Enhancing sustainable use of coastal and marine goods and services of the Baltic Sea

19 themes:

- Biogeochemical processes
- Food webs
- Catchment land cover
- ICZM
- Maritime risks
- Fish stock assessments
- Fisheries management
- Biodiversity
- Hazardous substances
- Coastal systems
- Eco-innovation
- Pollution by shipping
- Sustainable aqua ctr

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- Improving the capabilities of the society to respond to the current and future challenges directed to the Baltic Sea region

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- Eco-innovation
- Pollution by shipping
- Sustainable aqua ctr
- Governance and policy
- Lifestyles and well-being
- Maritime spatial planning

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Structure of the research agenda

Five strategic objectives:

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

19 themes:

- Biogeochemical processes
- Food webs
- Catchment land cover
- ICZM
- Maritime risks
- Fish stock assessments
- Fisheries management
- Biodiversity
- Hazardous substances
- Coastal systems
- Eco-innovation
- Pollution by shipping
- Sustainable aqua ctr
- Governance and policy
- Lifestyles and well-being
- Maritime spatial planning
- Integrated monitoring programmes
- Innovative measurement techniques
- ICT services

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BONUS calls 2012-2014

	2011	2012	2013	2014	2015	2016	2017	2018
Strategic phase			Implementation period of the calls					
<i>BONUS strategic research agenda</i>								
<i>Stakeholder consultation platforms</i>								
<i>Implementation modalities</i>								
SOW1								
SOW2								

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BONUS calls 2012-2014

BONUS research themes	Calls					
	Call 2012		Call 2013		Call 2014	
	Thematic 2012	Innovation 2012	Thematic 2013	Innovation 2013	Thematic 2014	Innovation 2014
i.1. Dynamics of biogeochemical processes	•					
i.2. Changing biodiversity	•					
i.3. Food web structure and dynamics	•					
i.4. Impacts of hazardous substances	•					
ii.1. Changes in catchment land cover patterns	•					
ii.2. The role of the coastal systems	•					
ii.3. Integrated coastal management			•			
ii.4. Eco-technological approaches				•		
ii.5. Maritime risk analysis and management				•		
ii.6. Effects of air and water pollution by shipping				•		
ii.7. Improving stock assessment, spatial heterogeneity of stocks	•					
ii.8. Evaluation framework for fisheries management	•					
ii.9. Sustainable aquaculture in the Baltic Sea					•	
iii.1. Governance structures, performance and policy instruments	•					
iii.2. Linking ecosystem goods and services to human lifestyles and well-being				•		
iii.3. Maritime spatial planning				•		
iv.1. Integrated monitoring programmes	•					
iv.2. Innovative measurement techniques			•			•
iv.3. User-driven ICT services			•			•

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BONUS Call 2012



- Opened on 12 November 2012
- Minimum of 3 countries, 2 BONUS participating states
- Common rules in line with FP7

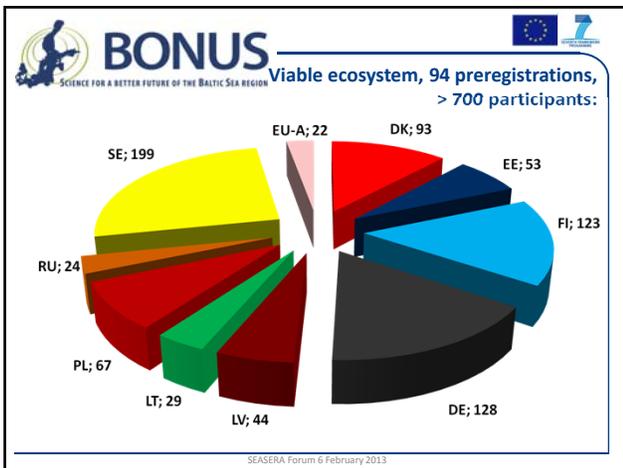
Viability ecosystem

- Ten themes
- Total funding EUR 31 million
- Max EUR 4 million per project
- Max duration 4 years
- Dead line 12 February 2013
- Russia involved in 7 themes
- Funded by BONUS and the EU

Innovation

- Three themes
- Total funding EUR 7 million
- Max EUR 0.5 million per project
- Max duration 3 years
- Dead line 12 March 2013
- Russia not involved
- Funded by BONUS, the EU and additional innovation funders

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BONUS SRA development



Year	Key Milestone	Focus
2006	BONUS-169 Science Plan and Implementation Strategy	Focus on marine environment
2010	Outline of the BONUS-169 Joint Baltic Sea Research Programme	
2011	BONUS Strategic Research Agenda 2011-2017	Inclusion of the catchment and coasts
2013	Policy framework analysis in the fields relevant to the BONUS programme	
2014	BONUS Strategic Research Agenda 2014-2015	Focus on sustainability?

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Policy framework analysis



- will serve as a background for updating the BONUS strategic research agenda
- aims at identifying the knowledge needs arising from the relevant policies at the global, European and the Baltic Sea Region levels
- covers more than 80 policy documents and initiatives in the areas of e.g. environment, maritime activities, fisheries, climate change, agriculture, as well as research strategy and knowledge management
- will be available within one month

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BONUS activities in 2013



- **Managing BONUS call 2012** – decisions in May-June
- **SRA update**
 - Joint BONUS – HELCOM stakeholder event 4 March 2013 – discussion on emerging research needs from the policy perspective
 - Strategic Orientation Workshop 3-5 September 2013 – drafting of the updated SRA
- **BONUS call 2013** – in November 2013 ??
- **Consideration of options towards Horizon 2020**

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EU Strategy for the Baltic Sea Region



- BONUS benefits from the EU macroregional policy – it created a platform for networking towards innovation funders
- BONUS call 2012 'Innovation' is jointly with EUSBSR flagship programme BSR Stars
 - BSR Stars speeds up innovation in the Baltic Sea Region using transnational cooperation to create strengthened competitiveness and sustainable growth

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THANK YOU!



For questions on BONUS call:
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