BONUS

Creating the science and technology basis for sustainable blue growth in the Baltic Sea

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A sustainable Blue Growth Agenda for the Baltic Sea Region (SWD (2014) 167 final)

Maritime economy can only thrive if marine resources are used in a sustainable manner

- Strenghts of the Baltic Sea region:
 - Low unemployment
 - High growth rates and low government dept ratios
 - Strong research and innovation activity
 - Tradition of close cooperation





What is **BONUS**?

Click to the BONUS movie





Funded by the eight EU member states and the EU; EUR 100 million for 2011-17

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

MISSION Integrating the Baltic Sea System research into a durable, cooperative, interdisciplinary and focused transnational programme in support of the region's sustainable development





BONUS strategic research

agenda process

LAND-COAST-SEA CONTINUUM & INNOVATION POLICY LANDSCAPE MAPPING **BLUE GROWTH IN** NORTHERN REGIONAL SEAS BONUS 2006 2010 & BONU Strategic 201 BONUS research & Strategic research agenda 2011-2017, up takts to reach and telecoment prop innovation 2013 Programme In the core: agenda 2014 Outline **BONUS** strategic 2018-2022 2018-2012 research agenda process, 2015 a systemic approach responding to 2017 the dynamic development in relevant policy fields

FOCUS ON BALTIC SEA ECOSYSTEM



BONUS calls & projects



Three calls => 28 projects running

[2007: Ecosystem approach to management 16 projects, 2009-2011, EUR 22 million]

2012: Viable ecosystem and Innovation 20 projects funded for 2014-2017, EUR 33 million

2014: Sustainable ecosystem services 8 projects funded for 2015-2017, EUR 17 million

2015: Blue Baltic launched on 9 November in 2015 **Total funding minimum of EUR 30 million Projects to be implemented during 2017-2020**



Project examples



Hazardous substances CHANGE seeks to alter antifouling practices of leisure boats by considering individual attitudes and behaviour, market actors and legal framework Land-coast interaction SOILS2SEA reducing nutrient loadings from agricultural soils to the Baltic Sea via groundwater and streams **Marine living resources INSPIRE** improves fish stock assessments and the knowledge basis on spatial dynamics of fish resources **Maritime risks STORMWINDS** Designs an operational risk management system to improve safety of wintertime navigation in the Baltic **Pollution by shipping** Enhances on-board treatment of polluted bilge water to achieve zero ZEB emissions into the Baltic Sea

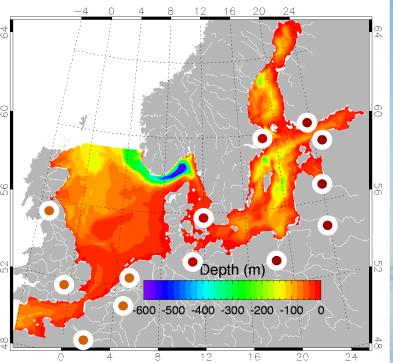


Next phase



Extend BONUS to the North Sea Time line: 2018-2022, volume 200 mill. EUR Rational:

- similar challenges from climate and sea level change
- interconnected seas impacted by water exchange with the North Atlantic
- runoff from large, densely populated and heavily exploited catchment areas
- homogeneous cultures and visions for exploiting marine resources, high potential for the 'blue growth' in the whole region, enhancing global level competitiveness
 similarities in policy setting (HELCOM, OSPAR)







From blue growth challenges to programme's objectives

Fragmentation => delays and increases costs of development.

Gaps in interdisciplinary knowledge => lack of sustainable solutions

Lack of identified synergies and trade-offs among sectors => slow development of best strategies and smart specialisation

Insufficient knowledge exchange

Lack of consideration of human health and wellbeing

Overcoming fragmentation in research and innovation

Supporting ecosystem based management

Fostering sustainability of blue growth

Transferring knowledge to practice

Supporting human wellbeing



THANK YOU!

Further information <u>www.bonusportal.org</u> bonus@bonuseeig.fi









Swedish Agency for Marine and Water Management









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