



INtegrating SPatIal pRocesses into Ecosystem models for sustainable utilization of fish resources (INSPIRE)

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BONUS



- The only joint research and development programme addressing the issues of one particular European regional sea;
- A unique funding mechanism integrating the national and European Community research and development in funds for a certain purpose;
- Brings together the research communities of marine, maritime, economical and societal research to address the major challenges faced by the Baltic Sea region;





BONUS cont-d

- Objective: to integrate the Baltic Sea system research into a durable, cooperative, interdisciplinary and focused multinational programme in support of the regions sustainable management;
- Duration 2010-2016; total budget 100 mio eur;
- BONUS call 2012: VIABLE ECOSYSTEM: 87 proposals submitted; 7 funded.



INSPIRE

Integrating spatial processes into ecosystem models for sustainable utilization of fish resources

Addresses BONUS Theme 3.3. *Improving stock assessments and resolving spatial heterogeneity and temporal dynamics of the Baltic Sea fish stocks*



INSPIRE will fill in critical gaps in knowledge on

- the mechanisms of changes in spatial distributions of different life-history stages of fish (due to various drivers such as climate, fishing and species interactions);
- the impact of such changes on the structure and function of the Baltic ecosystem(s);
- the sensitivity and robustness of analytical fish stock assessment, particularly for flatfish.



INSPIRE will provide answers

- What habitat (both pelagic and benthic) conditions characterize the spatial distributions of cod, herring, sprat and flounder?
- To what extent do fishing and species interactions affect the local and basin-scale distribution of exploited stocks?
- What drives spatial connectivity and migrations of different fish species/populations?
- How does stock structure and separation of natural populations impact stock assessment outcomes?

Participant no.	Institution	Country	ΡΙ
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Clupeid field surveys



BONUS - INSPIRE





Data

- Free and open access principle;
- Scientists generating the data have an opportunity to have first publication of the data (as much as possible in Open Access journals);
- Moratorium period, in which the project consortium will have privileged or exclusive access to the data;
- Whenever relevant, INSPIRE data will be submitted to ICES database and made thereby freely available.



Support activites

• Training school on: 'Science delivery for sustainable use of Baltic Sea fishery resources'

• Concluding symposium on: 'Integrating spatial processes into ecosystem models for sustainable utilization of fish resources'



THANK YOU



