

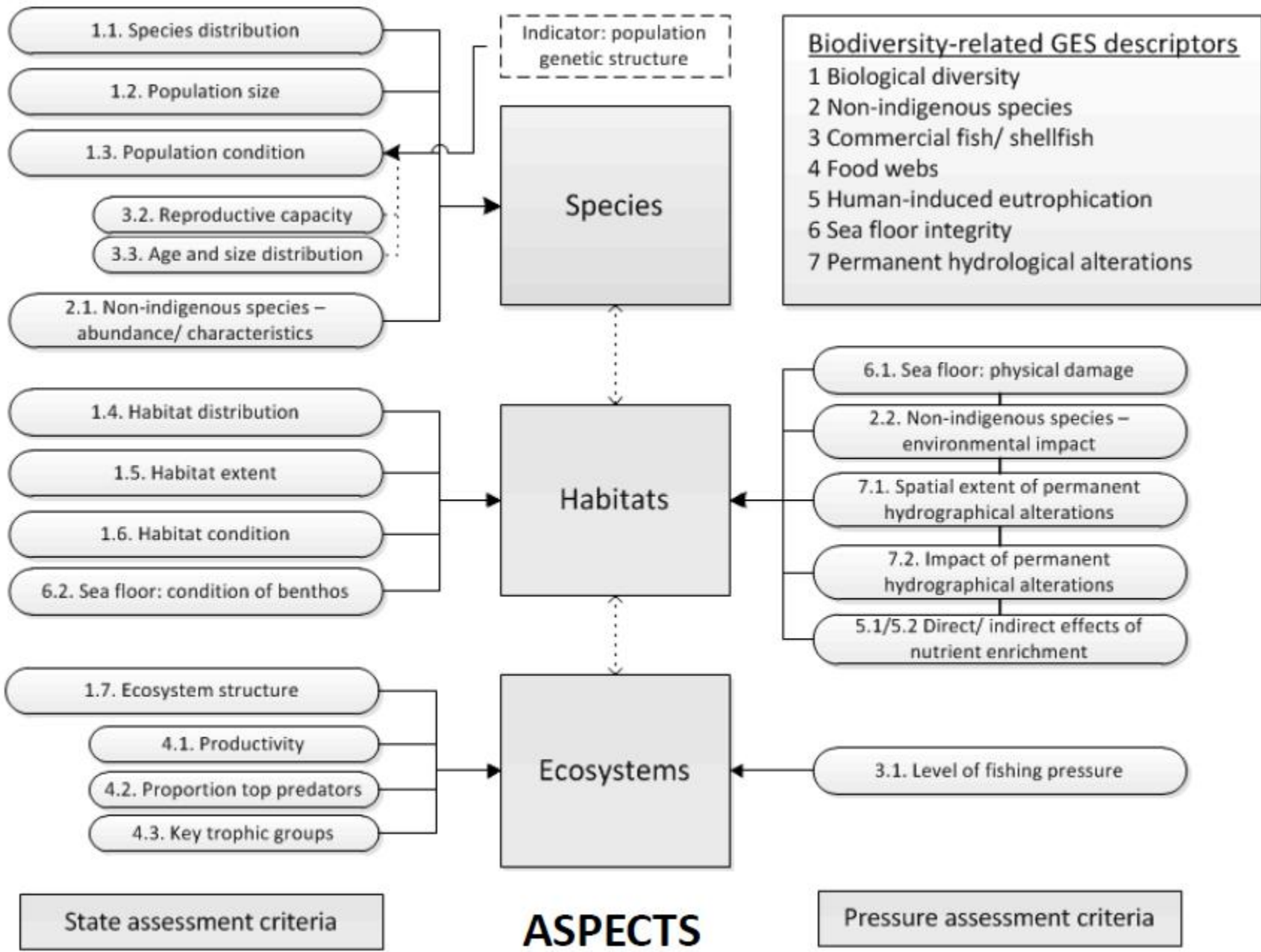
DEVOTES: Development of innovative tools for understanding marine biodiversity and assessing good environmental status

Laura Uusitalo



Definition and performance of pelagic GES indicators: joint workshop MyFISH/EURO-BASIN. Copenhagen 3-5 April 2013.

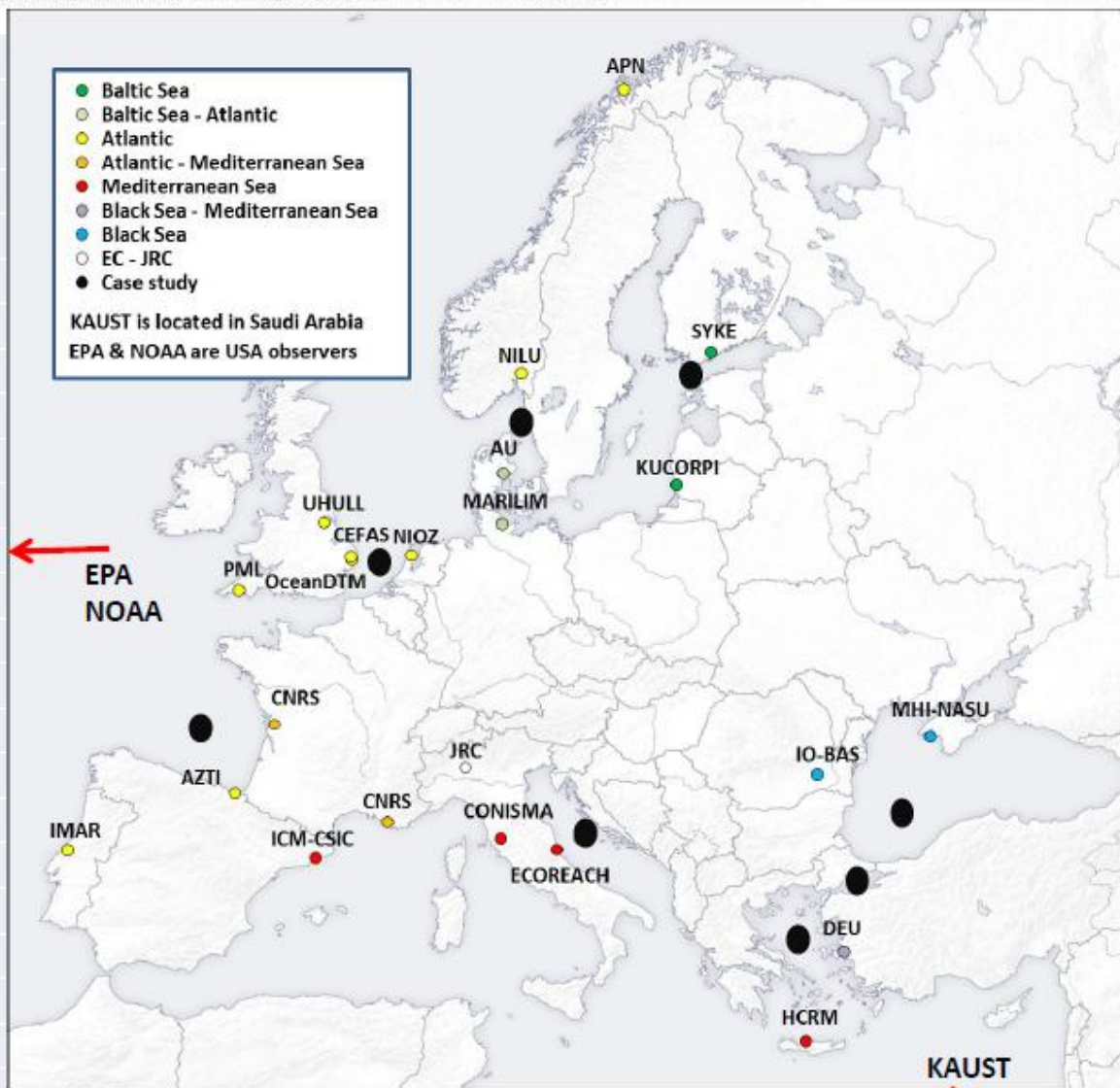




- Improve our understanding of the impact of human activities and climate change on marine biodiversity. **WP1:** 'Human pressures and climate change'.
- Identify the barriers and bottlenecks that prevent GES from being achieved **WP2:** 'Socio-economic implications of GES'.
- Test indicators and develop new, innovative ones to assess biodiversity in a harmonized way throughout the 4 regional seas. **WP3:** 'Indicator testing and development'
- Develop, test and validate innovative integrative modelling and monitoring tools to improve our understanding of ecosystem and biodiversity changes, for integration into a unique and holistic assessment **WP 4:** 'Innovative modelling tools'
WP5: 'Innovative monitoring techniques'.
WP6: 'Integrative assessment'
- Propose and disseminate strategies and measures for ecosystems' adaptive management, including the active role of industry and relevant stakeholders **WP7:** 'Outreach, stakeholder engagement and product dissemination'.

DEVOTES details

Number	Partner	Country
1	AZTI	Spain
2	NILU	Norway
3	SYKE	Finland
4	Aarhus University	Denmark
5	University of Hull	UK
6	CEFAS	UK
7	PML	UK
8	IMAR	Portugal
9	IO-BAS	Bulgaria
10	JRC	EU
11	HCMR	Greece
12	KUCORPI	Lithuania
13	APN	Norway
14	University of Ancona	Italy
15	NIOZ	Netherlands
16	CSIC	Spain
17	Dokuz Eylul Uni	Turkey
18	MHI-NASU	Ukraine
19	MARILIM	Germany
20	CNRS	France
21	OceanDTM	UK
22	Ecoreach	Italy
23	KAUST	Saudi Arabia



Duration of 48 months, from 1st November 2012 to 31st October 2016

Total cost: 12 million euros, requested EC contribution: 9 million euros

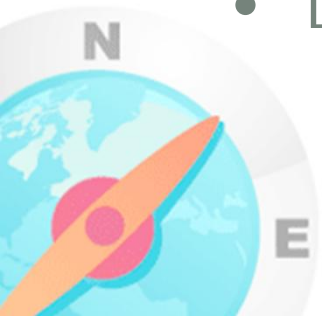
- Coordinator: Ansti Heiskanen-Torsten Berg (SYKE-MARILIM)
- Work effort: 263 person-month (21.4%)
- Objective: Test and develop biodiversity GES indicators (D1, D2, D4, D6)
- Some tasks:
 - **Review** and analyze indicators used in MSs and RSC
 - Quantify the ability of indicators to identify threats and impacts on biodiversity in the regional seas
 - **Refine** existing indicators
 - **Develop**, test and validate new indicators to fill in the identified gaps
 - Develop tools/methodologies for setting reference and target values for the biodiversity indicators
- **Main outputs:** A comprehensive and coherent suite of innovative, cost-efficient and tested biodiversity indicators to be applied in the integrated assessment and modelling of GES in regional seas

Biodiversity indicator catalogue:

- Compile a catalogue of European MSFD D1, D2, D4, and D6 indicators of MRCs and Member States
- Include information on:
 - Relevant descriptors; and criteria & indicators of D1, D2, D4, D6
 - Biodiversity components
 - Habitat types
 - Geographical coverage
 - Pressures
 - Monitoring



- Gap analysis in terms of spatial coverage, biodiversity components, pressures
- Analyze the reproducibility, range and responsiveness to anthropogenic pressures, linearity, spatial and temporal scale of the proposed biodiversity GES indicators; risks and uncertainties
- Based on the analyses:
 - Refine existing indicators
 - Develop new indicators



- DEVOTES produces a comprehensive catalogue and analysis of biodiversity indicators, including the pelagic
 - Pelagic indicators can easily be identified from the catalogue
- However, D3 indicators are not covered
 - Only if they are concurrently indicators for D1, D2, D4, D6
- DEVOTES has started 5 months ago: work in progress but no results yet





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www.devotes-project.eu

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