Pilot Projects - New Knowledge for an integrated management of human activities in the sea
PP/ENV D2/SEA

Towards coordinated monitoring in the European Regional Seas
October 2013 – May 2015

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Main aims of the Pilot Projects

Develop new concepts and decision-making tools for MSFD implementation:

• integrated monitoring strategies based on existing sampling and scoping potential for joint monitoring programmes within and between MS;

• to support MSFD and other environmental legislation at sea-region scales;

• cooperation between pilot projects
## Key figures

<table>
<thead>
<tr>
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<th>JMP NS/CS</th>
<th>BALSAM</th>
<th>IRIS-SES</th>
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</thead>
<tbody>
<tr>
<td>Area covered</td>
<td>North Sea</td>
<td>Baltic Sea</td>
<td>Mediterranean &amp; Black Sea</td>
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<tr>
<td></td>
<td>Celtic Sea</td>
<td></td>
<td></td>
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<tr>
<td>RSC</td>
<td>OSPAR</td>
<td>HELCOM</td>
<td>Bucharest, Barcelona</td>
</tr>
<tr>
<td># MS</td>
<td>8+ Norway</td>
<td>8+ Russia</td>
<td>7+ Turkey</td>
</tr>
<tr>
<td># partners</td>
<td>14+4</td>
<td>19</td>
<td>9</td>
</tr>
<tr>
<td>M€</td>
<td>1</td>
<td>0.46</td>
<td>1.2</td>
</tr>
<tr>
<td>% EU contribution</td>
<td>77</td>
<td>89</td>
<td>72</td>
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Final conference of the 3 pilot projects (IRIS-SES, BALSAM & JMP NS/CS), 24 April 2015, DG ENV, Brussels
Definition of a Monitoring Programme

The measurement of one or more metrics describing an aspect, or aspects of the marine ecosystem in a specified region and which is performed at one or more locations in space, but repeated in time.

The measurements are performed following a specified method which does not change with time without an analysis being performed on the quantitative effect of any change.

A monitoring programme performed by more than one organization

Activities Expected in a JMP

Definition of a Joint Monitoring Programme

Operational Objectives of a JMP

Final conference of the 3 pilot projects (IRIS-SES, BALSAM & JMP NS/CS), 24 April 2015, DG ENV, Brussels
JK3  This has perhaps too much text under one slide? Could it e moved after JMP NS/CS objectives?
Johanna Karhu; 23.4.2015

PP5  Johanna, I think Lisette asked to put it as a definition related to all projects work, that is why I put it before projects objectives, however I am splitting it to 2 slides now
Popi Pagou; 23.4.2015
### Activities Expected in a JMP

- Shared platforms
- Shared equipment
- Joint training programmes
- Joint planning meetings
- Joint programme management
- Inter-organization personnel exchange
- Inter-organization calibration studies
- Shared data infrastructure (e.g. databases)
- Shared assessment procedures
- Joint assessment
- Joint funding mechanisms
- Joint resource allocation

### Possible Operational Objectives of a JMP

- To extend the spatial or temporal extent of measurements using the same resource allocation among JMP members
- To increase the number of metrics measured using the same resource allocation among JMP members
- To increase the precision of a metric using the same resource allocation among JMP members
- To reduce the resources needed by JMP members to measure an existing set of metrics
Objectives JMP NS/CS

1. Show benefits & challenges of joint monitoring in the North Sea and the Celtic Sea:
   • potential for multi-use of platforms
   • constructive network between institutions (fisheries and environmental monitoring)
   • planning and evaluation tools to enhance the outcome of monitoring when evaluating GES

2. Transferability to other (sub) regions: North Sea ↔ Celtic Sea and potentially beyond
Objectives IRIS-SES

1. Develop decision-making tools for efficient/cost effective monitoring programs
2. Consider integration of techniques and the required spatial and temporal resolution
3. Assess pilot sampling actions, for the feasibility of proposed strategies
4. Elaborate guidelines for sampling across the various disciplines
5. Development of cooperation among research institutions within selected regions
6. Training events & Transfer of knowledge to other regions

Develop proposals towards Joint Monitoring Programs
Objectives BALSAM

1. Support HELCOM on coordinated monitoring of the Baltic and the MSFD monitoring (Art 11) of EU Member States

2. Support the development of the HELCOM Monitoring Manual (online in October 2014)

3. Provide recommendations for further coordinated monitoring of environment (seals, seabirds, non-indigenous species, benthic habitats, coordinated use of research vessels)
Common challenges

• Member States were in the process of developing their monitoring programmes and some still are.

• Changes in reporting guidelines

• Indicator development still in progress within Member States / Regional Sea Conventions

• Timing of MSFD deadlines and project planning
Comparable results

- Catalogue/Inventory of monitoring programs in each region
- Web-tools for visualization of the monitoring information
- Cooperation with RSCs to assist MSs in their MSFD reporting
- Recommendations/options for integrated monitoring
Meta - databases on current marine monitoring and experiences from regional data management

• Inventories, gap analysis and assessment of current monitoring
• Meta-databases (on-line)
Tools for joint marine monitoring planning

- tools for geographic sampling design, joint assessment areas
- multi-use of sampling platforms.
- online platform of actual positions and metadata of survey vessels
- GIS tools for Descriptors 5, 8, 9.
Proposals for joint/coordinated monitoring

• Case studies to test options/proposals for joint monitoring
• Guidance/Proposals towards joint monitoring for each Regional Sea
• Cross-country cooperation
• Cooperation with the RSCs
And more ....

• Coordination and Joint Actions among the 3 pilot projects
• Assistance to regional conventions and EU MSs MSFD implementation in their Art 11 reporting
• Common Publications
• Dissemination of results to RSCs, MSs, EU and other stakeholders
Thank you!

www.informatiehuismarien.nl/projecten/joint-monitoring-programme/

www.helcom.fi

www.iris-ses.eu
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