STAGES
CONNECTING SCIENCE TO POLICY FOR HEALTHY SEAS

STAGES: Connecting science to policy to support MSFD implementation

SEAS-ERA Final Conference

Palma de Mallorca (Spain).

8th - 9th April 2014

Raquel Diez

Centro Tecnológico del Mar – Fundación CETMAR

Seas-era EUFP7ERA-NET

CETMAR CENTRO TECNOLÓGICO DEL MAR

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CONNECTING SCIENCE TO POLICY FOR HEALTHY SEAS

Objectives

Improve scientific knowledge base and to connect science to policy

Objective 1: **Identify, extract and synthesize the knowledge** generated through EU and national research funded activities with relevance to MSFD objectives and **make it widely accessible** to policy and decision makers and to MSFD stakeholders

Objective 2: Identify **needs for further research** to improve the scientific underpinning for the implementation of the MSFD

Objective 3: Provide concrete, pragmatic and ready to use recommendations of an effective **European science-policy platform** to support the implementation of MSFD

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THE PARTNERSHIP

Name
Centro Tecnológico del Mar – CETMAR
Fundacao Eurocean
Institut Francais de Recherche pour léxplotation de la Mer-IFREMER
Fondation Europeenne de la Science EU-MB
AquaTT UETP Ltd
International Council for the Exploitation of the Sea-ICES
JRC-Joint Research Centre-European Commission
Institute of Marine Reserach – IMR

THE ADVISORY BOARD

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JPI Oceans
SEASERA
PERSEUS

EU funding: 999.692 Euros

September 2012 -August 2014

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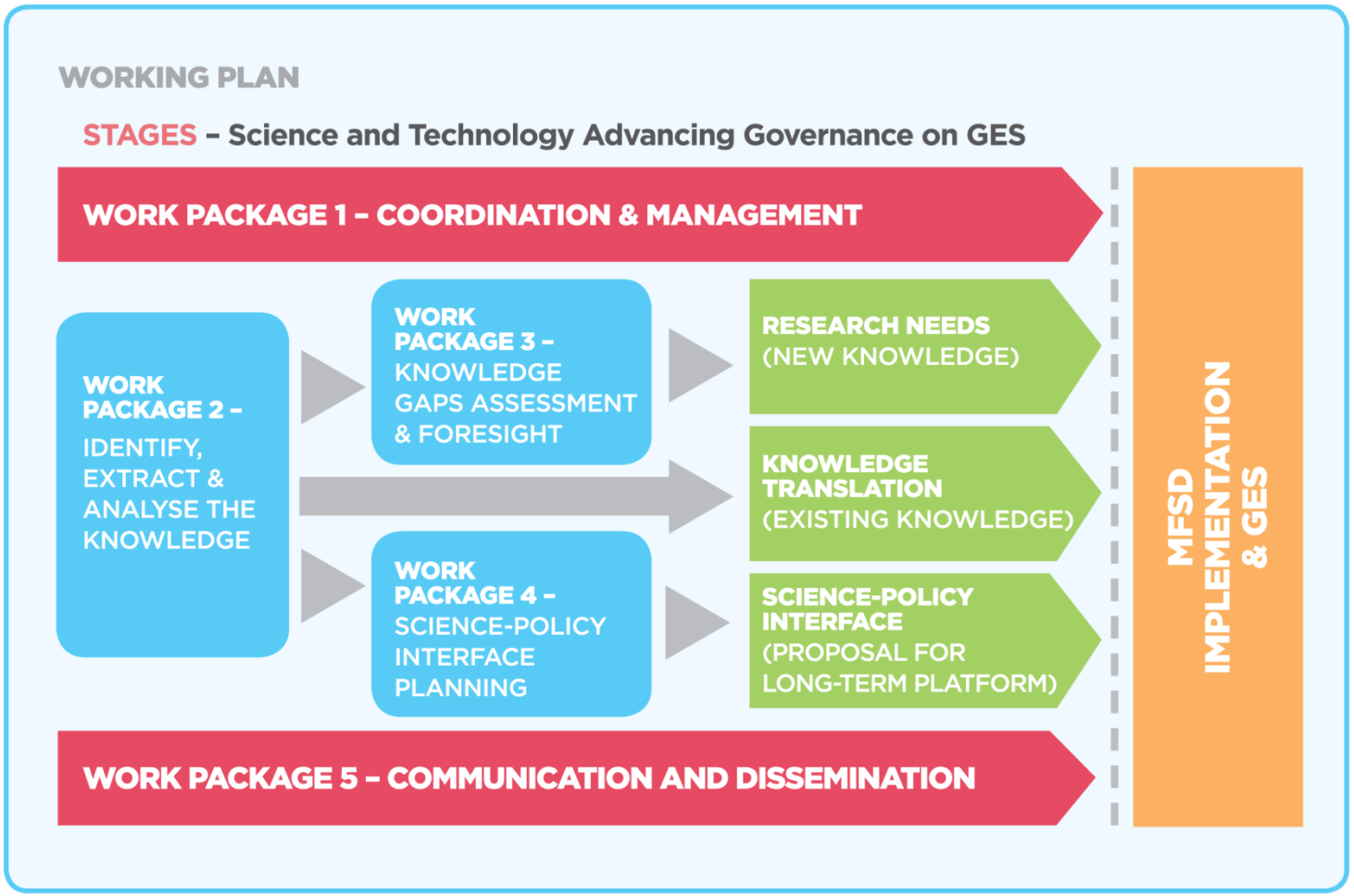
Working Plan



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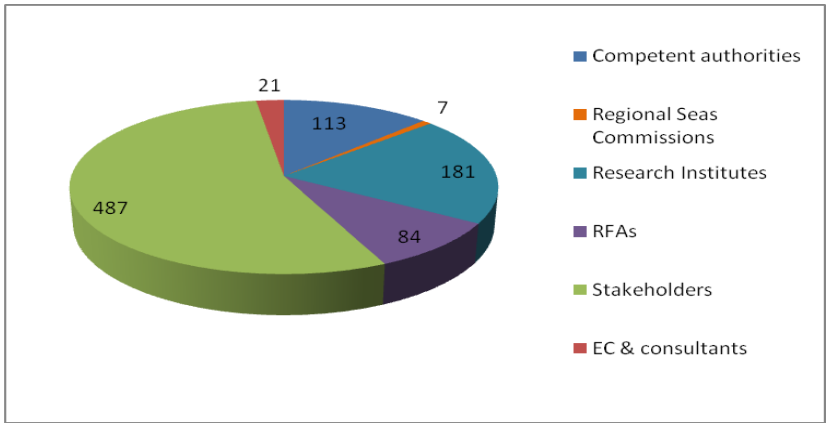
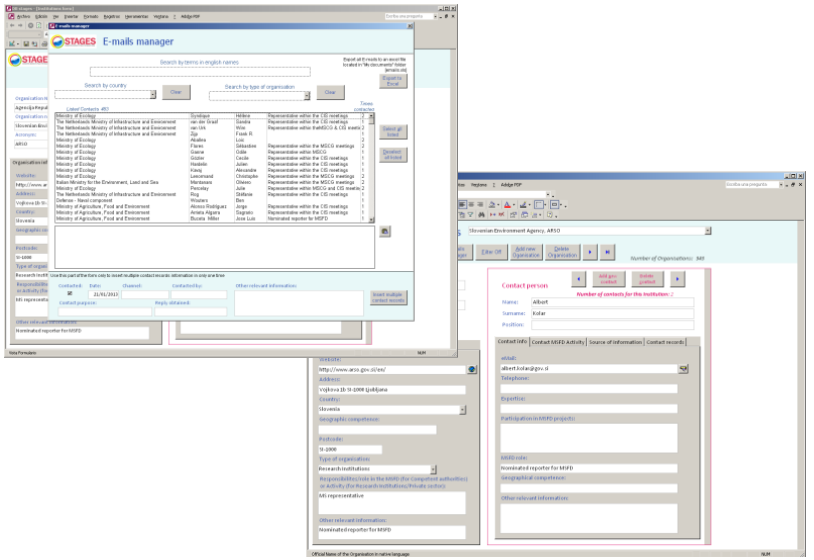
WP1

Inventory of MSFD stakeholders



- Information sources: collaboration of MSCG members (channeled by DG ENV) CIRCABC, EIONET, reports, minutes, RSC, MSFD projects, STAGES partners. Important contribution from the ODEMM FP7 project

- 30 countries
  - 891 Organizations
  - 1343 contact persons



- DB organized by categories. Diverse functionalities.

- Facilitate STAGES approach to relevant MSFD stakeholders

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WP2

Identify, extract, analyze and synthesize the knowledge generated in EU and national research funded activities and make it available for policy makers and MSFD stakeholders

Comprehensive knowledge collection from EU and national public research projects through a electronic survey:

- ~4.000 projects surveyed (1.500 EU & 2.500 national)
- ~1.200 replies with ~1,000 KOs (Response rate: 31%)

Analysis and classification of the information per MSFD major themes

Results	Lead User(s)	Dissemination
• Inventory of relevant EU and national research projects	EU Commission and Member States	Information was uploaded on the On-line "Marine Knowledge Gate Portal".
• State of the Art Synthesis Reports on MSFD Themes	EU researchers and MSFD stakeholders	

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MARINE KNOWLEDGE GATE 2.0

The Marine Knowledge Gate is an innovative tool which provides an inventory of European and national funded Marine Science and Technology Projects and their Knowledge Outputs.
The inventory possesses an advanced search functionality, is regularly updated and is free of use.
Please refer to the Technical Note, Search Tips and Disclaimer for further information.

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- Projects
- Marine Directive Projects
- Knowledge Outputs

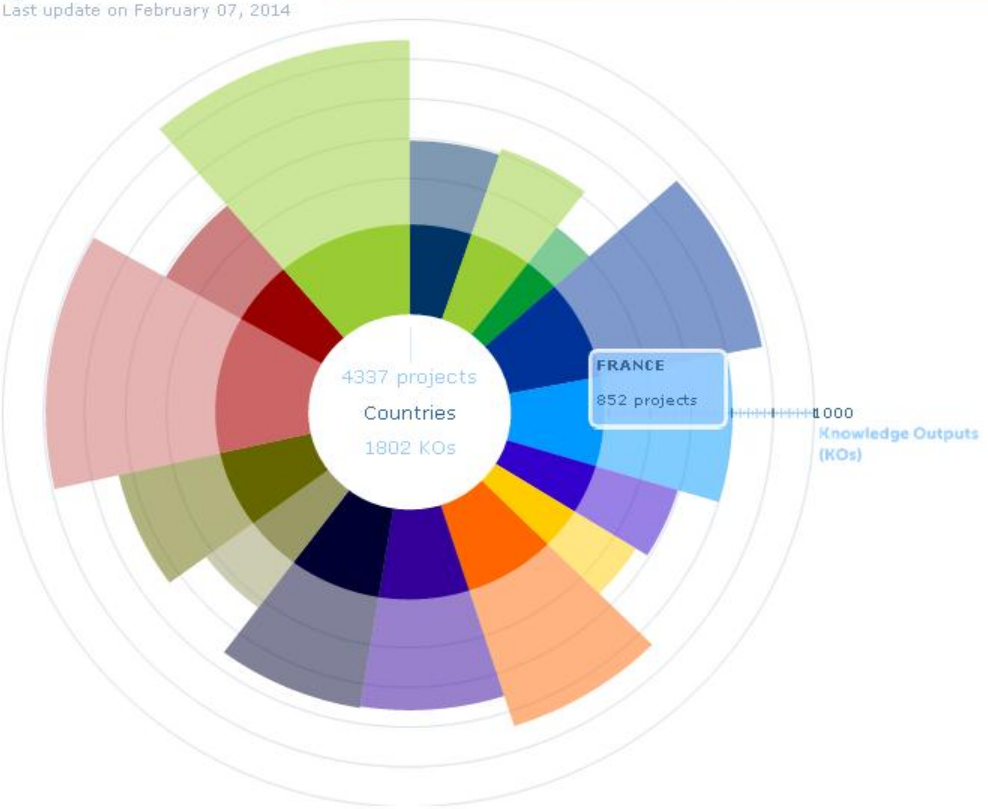
PROGRAMMES

- FP6
- FP7
- INTERREG III
- INTERREG IV
- LIFE
- OTHERS
- NATIONAL

Projects and Knowledge Outputs by

Programmes | Countries | Funding | Marine Directive Descriptors

Last update on February 07, 2014



Nº of Projects and Nº of KOs by top participating countries (both as Project Coordinator and Partner)
(KOs are assigned to all the countries within the Project Consortium)

Help us improve this database by submitting new records

Add new Project

Sources of Information

cost | EFF | ENPI CBC | ESPON | EUREKA | EUROCORES | IMP grants | INTERACT | INTERREG III | INTERREG VI | IPA CBC | MarineIT | STAGES

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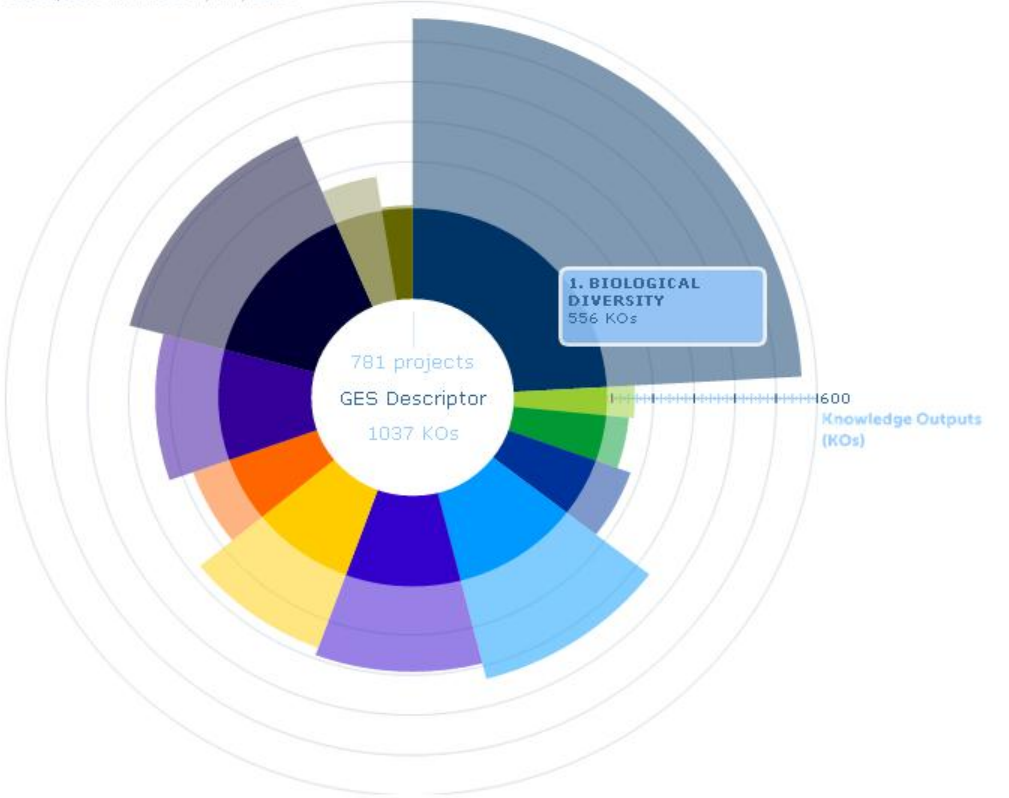

Marine Directive relevant projects and KOs gathered through the STAGES project by Good Environmental Status (GES) Descriptors

Help us improve this database by submitting new records

Add new Project

Sources of Information

cost | EFF | ENPI CBC | ESPON | EUREKA | EUROCORES | IMP grants | INTERACT | INTERREG III | INTERREG VI | IPA CBC | smap | MarineIT | STAGES

www.kg.eurocean.org/list.jsp?mode=1&Marine_Directive_Descriptors=1

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Projects

Knowledge Outputs

Free Text...

PROGRAMMES

COUNTRIES

- ANY COUNTRY
- EUROPE
- ALBANIA
- AUSTRIA
- BELARUS
- BELGIUM
- BOSNIA AND HERZEGOVINA
- BULGARIA
- CROATIA
- CZECH REPUBLIC
- DENMARK
- EC
- ESTONIA
- FAROE ISLANDS
- FINLAND
- FRANCE
- GERMANY
- GREECE
- HUNGARY
- ICELAND
- IRELAND
- ITALY
- LATVIA
- LIECHTENSTEIN
- LITHUANIA
- LUXEMBOURG
- MACEDONIA, REPUBLIC OF

SEARCH QUERY: Countries Europe | Marine Directive Descriptors 01. Biological Diversity

SEARCH RESULTS: 379 records

Printable tabular PDF | Reset

See full results

1 2 3 4 5 6 7 8 9 10 · > · >>

Project | Coordinator Institution | Programme	Coord. Country	Duration
MC-SALT - **Environmental Management and Restoration of Mediterranean Salt Works and Coastal Lagoons** Ente di gestione per i Parchi e la Biodiversità - Delta del Po LIFE	Italy	2011 to 2016
Ferrybox - **Renewal and updating of flow-through system for the observation of environmental status of the marine environment from merchant ships** University of Tartu National	Estonia	2012 to 2013
MIME - **Metals in the Marine Environment** Ryan Institute - Ryan Institute for Environmental, Marine and Energy Research National	Ireland	2008 to 2013
BENTHIC CILIATES - **The Biodiversity, Systematics and Guide to the Identification of Marine Benthic Ciliates** NHM - Natural History Museum FP7	United Kingdom	2010 to 2012
CLAMER - **Climate Change and Marine Ecosystem Research** NIOZ - Netherlands Institute for Sea Research FP7	Netherlands	2010 to 2011
WANDA (Whale ANcient Dna Analyses) - **The effect of whaling on sperm whales: a population genetic study based on DNA extracted from museum collections of whale teeth and bones** UU-EBC - Uppsala University; Evolutionary Biology Centre National	Sweden	2011 to 2015
Acronym N/A - **Numeryczne modelowanie zagrożeń w polskiej strefie przybrzeżnej** IO-PAS - Polish Academy of Sciences; Institute of Oceanology National	Poland	2009 to 2012
DACO - **Coastal water darkening causes eutrophication symptoms** UiB - University of Bergen National	Norway	2010 to 2013
IMAGE - **Indicators for fisheries MAnaGement in Europe** IMARES - Wageningen UR; Institute for Marine Resources and Ecosystem Studies FP6	Netherlands	2006 to 2009
GENIMPACT - **Evaluation of genetic impact of aquaculture activities on native populations - a European network** IMR - Institute of Marine Research; Population Genetics and Ecology Research Group	Norway	2005 to 2007

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DESCRIPTION OF THE PROJECT

Acronym	CORALCHANGE
Title	Factors controlling carbonate production and destruction of cold-water coral reefs of the NE Atlantic
Programme	FP7
Theme	PEOPLE – Marie Curie Actions
Instrument/Contract Type	FP7 - International Re-Integration Grants (IRG)
Start Year	2009
End Year	2012
Funding	100,000
Project Coordinator	Ricardo Serrão Santos
Coordinator Country	Portugal
Other Countries Involved	Not available
Coordinator Institution	IMAR - Institute of Marine Research (Portugal)
Other Institutions Involved	Not available
Summary	Cold-water coral reefs are important, but poorly studied, ecosystems. Given global climate change, two important questions are (1) what are the environmental controls of reef framework growth? and (2) how might cold-water corals be affected by environmental change? This project addresses these questions by studying the geographic patterns of carbonate production (bioaccretion) and destruction (bioerosion) of the two major cold-water reef building species in the NE Atlantic, Lophelia pertusa and Madrepora oculata, and by determining its relationship to environmental factors. It will also involve laboratory experiments on the effects of predicted increases in carbon dioxide partial pressure (pCO2) and temperature, and their interactions, on the calcification of these scleractinian coral species. These experiments will also investigate how increased pCO2 and temperature will affect the relationship between endolithic fungi (a potential pathogen) and their coral host. Results of these studies will improve predictions of how these cold-water corals will respond to future environmental changes and whether reefs will be able to maintain a positive balance between carbonate construction and destruction processes. This proposal describes a project on a cutting-edge research topic to be undertaken at IMAR-DOP(Portugal). The applicant has developed expertise in tropical coral reef ecology during her PhD studies in the USA. The applicant was recently awarded a post-doctoral fellowship to work at IMAR-DOP. However this fellowship does not cover research expenses. As a result, this grant would be essential for the development of the applicant's research career and re-integration

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Website	Not available
Final Report	Not available
Information Source	CORDIS FP7 Repository
Last Update	2013/09/30

Knowledge Output: "a unit of knowledge that has been generated out of a research project. It is not limited to de-novo or pioneering discoveries but may also include new methodologies/processes, adaptations, insights, alternative applications of prior know-how/knowledge".

POTENTIALLY RELEVANT FOR MARINE DIRECTIVE (See)

Good Environmental Status (GES) Descriptor(s) (see)	8. Contaminants and Pollution Effects 6. Sea-Floor Integrity 1. Biological Diversity
Marine Region(s) (see)	North-East Atlantic Ocean

RELATED KNOWLEDGE OUTPUTS

- **Physiological plasticity of the cold-water coral Desmophyllum dianthus to ocean acidification**
- **Physiological and gene expression responses of the cold-water octocoral Dentomuricea sp to ocean acidification**
- **Chemical and biological dissolution of carbonate substrates in the Azores: using a shallow-water hydrothermal vent as a natural laboratory**
- **Variability in growth rates of long-lived black coral Leiopathes specie from the Azores**

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DESCRIPTION OF THE KNOWLEDGE OUTPUT

KO Title	Physiological plasticity of the cold-water coral Desmophyllum dianthus to ocean acidification
KO Description	Investigates the impact of ocean acidification on the physiology of a cold-water scleractinian coral.
KO Type	Scientific Publication
Potential End Users & Applications	**Environmental Managers & Monitoring** **Policy Makers / Decision Makers** **Scientific Community**
Sectors & Subsectors to potentially benefit	Climate Change (Climate Change General) Environmental Management (Environmental Management General) Marine Sciences (Marine Sciences General)
Publicly Available	Yes
KO Source of Information	Not available
Link to KO Source of Information	Not available
IP/Confidentiality	No
KO Status	In progress
Last Update	2013/11/30

RELATED PROJECT

Project Acronym	CORALCHANGE
Programme	FP7
Project End Year	2012
Project Coordinator	Ricardo Serrão Santos
Project Funding	100,000

OTHER KNOWLEDGE OUTPUTS FROM THE PROJECT

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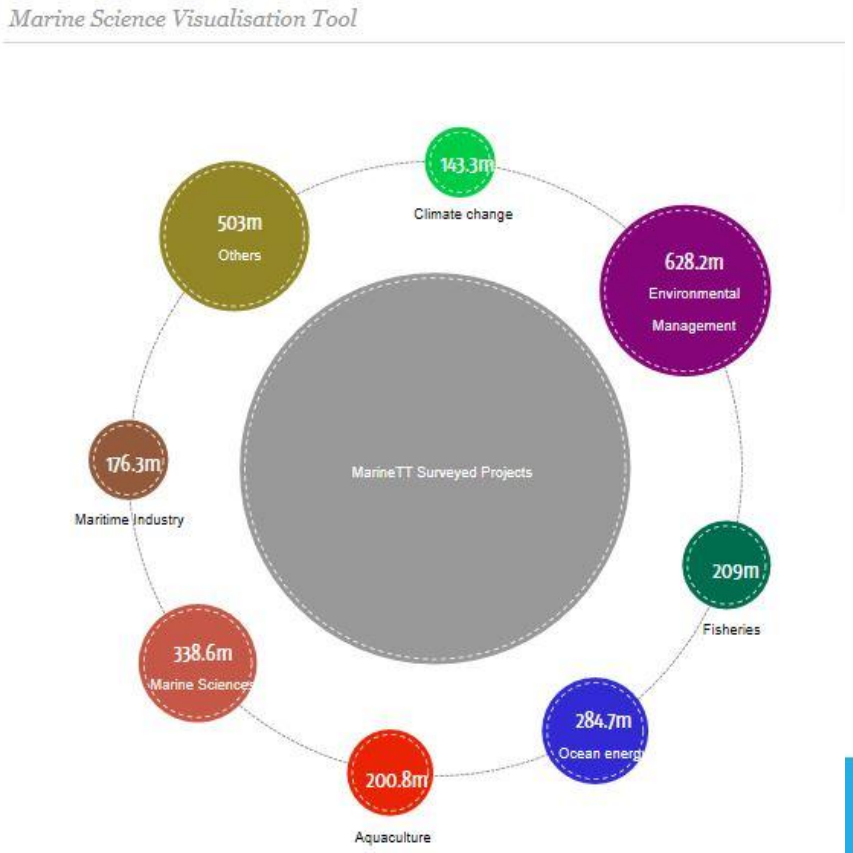
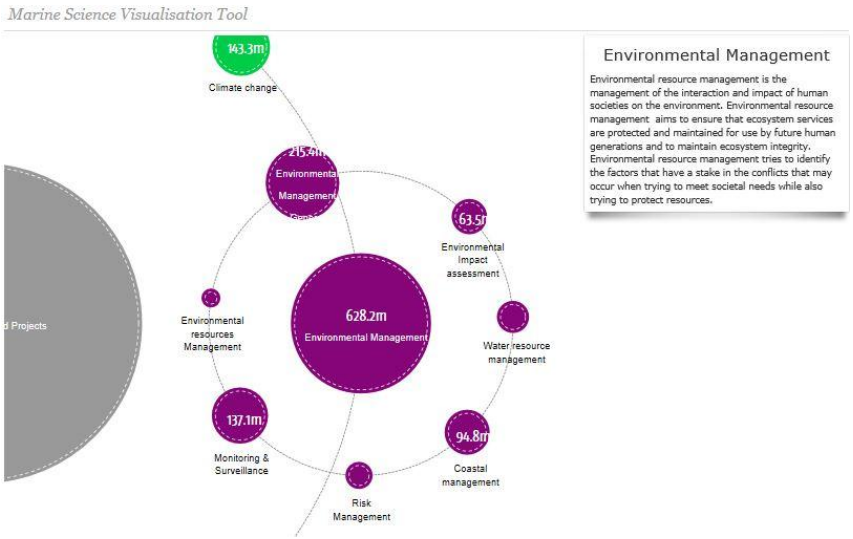
WP2

- MSFD relevant projects accessible through STAGES website through a clustering tool dynamic visual representation of projects: projects grouped by theme/marine region/descriptors, assessment, monitoring, etc

Linked to profile information in MKG





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WP2

Five thematic State of the Art Synthesis reports

- To provide an overview of RTD effort at MS and EU level in the MSFD major themes
- To provide a baseline to support the design of the SPI platform in the frame of WP4

Structure of the State of the Art Reports

Chapter 1: Introduction

1.1 Identification of the relevant knowledge generated through EU and National research activities
1.2 Collection of the identified knowledge
1.3 Analysis and synthesis of the collected knowledge

Chapter 2: Theme

2.1 Overview of RTD effort at European and National level –
2.2 Research of high potential/interest - Includes the outcomes of the In-depth Analysis of selected projects of high interest. **Geographical region becomes the primary category** for organisation of projects and research. Does the research inform/ contribute to:

- **Initial Assessment**
- **GES Assessment**
- **Monitoring**
- **Pressures & Impacts**
- **Socio-Economic Analysis**

2.3 Conclusions - Includes a summary of the findings of the overview of RTD effort at European and National level and identifies projects that have the potential to assist in MSFD implementation.

Chapter 3: Discussion

Concluding remarks

Living documents: WIKI TOOL

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WP3

Knowledge gap assessment and foresight

Identify the needs for further research to improve the scientific underpinning for the implementation of the MSFD

Synthesis of incoming recommendations: TG reports, RSC, DG ENV WG reports, JRC & ICES, scientific publications

Foresight and consultation exercise (3 Workshops)

- Implementation of Monitoring Programmes (13-15 May 2013, Brussels)
- Pressures and their Impacts on Marine Ecosystems (Rome, 4-5 September 2013)
- Socio-economic Analysis (9-11 October 2013)

Results	Lead User(s)	Dissemination
• MSFD Knowledge Gaps and needs for research • Science-Policy Report	EC DG RTD & Horizon 2020 JPI Oceans National and regional research programmes	Delivery of STAGES reports on Research Needs and Science Policy Briefings

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WP3

Science policy briefing on the needs for further research

COOPERATION

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WP4: Proposal Science-policy Interface

Provide Concrete, Pragmatic and Ready-to-Use Recommendations on the Development of an European Science-Policy Platform to Support Implementation of the MSFD

Stakeholders Analysis

- Stakeholder identification
- Survey implementation and analysis
- Stakeholder consultation Workshop

Proposal for a SPI Platform

- Outputs of Stakeholder Analysis
- WP2 and WP3 outputs
- Analysis of Existing SPI Structures, Processes and Best Practices
- Elaboration of proposal to be presented at STAGES final meeting

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WP4 Outputs

Expected Results	Lead User(s)	How the Lead User describes the results	Dissemination Plan / Funding for exploitation
Proposal for a European science-policy interface platform	European Commission DG ENVIRONMENT Directorate D – Water, Marine Environment & Chemicals	In-depth guidelines on development of an effective, long-term, and manageable platform	Position paper targeted at European Commission Services European Commission Services Member and Associated States

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WP4

✓ **Stakeholder identification:** cross-section of MSFD stakeholders at regional, EU and national level

✓ **MSFD Stakeholder survey (April 2013)**

"How Effective is the Current Science to Policy Advisory process for MSFD?"

aimed to consult MSFD Stakeholders and seek views and expectations for a science-policy platform that enhances knowledge uptake into the MSFD policy process.

Stakeholder Survey launch May 31, 2013 - closed July 16, 2013

Total Invites 436, Response 118 (26%)
Stakeholder Invites from 30 Countries from a cross-section of European MSFD Stakeholders sectors at National, Regional and pan-European level: Research, NGOs, Industry, Policy Makers, etc

Analysis completed Oct. 10, 2013 - 1 Year Report

Final Step: Febr. 12, 2013 Stakeholder Survey and Consultation Workshop in Brussels

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WP4

✓ Stakeholder Survey and Consultation Workshop February 12, 2014

STAGES DEVOTES

Science and Technology Advancing Governance of Good Environmental Status

In association with the DEVOTES project:
DEVelopment Of innovative Tools for understanding marine biodiversity and assessing good Environmental Status

Building a Science Policy Interface to Support MSFD Implementation

Joint Stakeholder Consultation Workshop

12 February 2014, Regus Brussels Central Station Centre, Rue des Colonies 11, Brussels

STAGES-DEVOTES Stakeholder Workshop

Registration and Coffee (plenary Room 2.07, 2nd Floor)

09.00 Welcome and plan for the day

09.10 The STAGES project overview

09.20 The DEVOTES project (presentations and discussion)

10.20 STAGES MSFD SPI Survey: Stakeholder needs and expectations

10.45 *Tea/Coffee*

11.15 **Breakout Session 1** (Breakout sessions are located on 1st Floor)
- Group 1: STAGES: Which knowledge and when? (Room: Place Royal)
- Group 2: STAGES: Choosing the best SPI tools (Room: Grand Place I+II)

12.45 *Lunch*

13.45 **Breakout Session 2** (Breakout sessions are located on 1st Floor)
- Group 1: STAGES: Choosing the best SPI tools (Room: Grand Place I+II)
- Group 2: STAGES: Which knowledge and when? (Room: Place Royal)

15.15 *Tea/coffee* *Then Participants reconvene in Room 2.07 for Plenary session.*

15.45 Reports of the 2 breakout sessions

16.15 **Plenary Brainstorming**
Future options for an optimum MSFD Science Policy Interface

17.00 End of workshop

The STAGES and DEVOTES projects are funded by the European Union 7th Framework Programme

STAGES

MSFD SPI workshop, 12/02/2014, Brussels

Breakout Session Supporting Document: Which Knowledge and When?

*"SPIs are implemented to **promote the interplay between the science and policy domains, fostering exchange** between [1]**knowledge producers** (e.g. the research community) **and** [2]**knowledge users** (e.g. policy makers)."* [[3]NFIV, Chapter 13, European Marine Board 2013, p.167]

Knowledge forms the foundation of evidence-ba
wealth of information available to MSFD policy r
a diverse stakeholder community is crucial to
packaging of information and level of detail pro
user and the geographical scale. Finding efficien
science advisory process is also key to drive new
forward (see Figure 1).

Participants are invited to discuss **'Which Knowle**
Marine Strategy Framework Directive (MSFD), fo

1. Packaging relevant knowledge outputs fo
2. Harnessing knowledge: Maximizing the in
3. Targeting windows of opportunity for exc

At all times, keep in mind the following cross-cutt

a) **Multiple geographical scales** (e.g. National, Su
b) **Timing** and the need to maximize the interplay
policy (shorter-term) time-frames.

For each topic, key questions are provided below

1. Packaging relevant knowledge outp

Q1: What types of knowledge does MSFD policy
between knowledge produced and policy needs
MSFD science-policy interface promotes product
required to support MSFD implementation. Are t
knowledge and packaging of Knowledge Outputs

Q2: How could the 'packaging' of information be
scales? e.g. A National example of synthesizing a
Charting Progress Report.

[1,2]: See supporting document 'MSFD information s
[4]http://www.marineboard.eu/images/publications/Navigat

STAGES

MSFD SPI workshop, 12/02/2014, Brussels

Breakout Session Supporting Document: Choosing the best SPI tools

*"**Science–policy interfaces** are defined as **social processes** which encompass relations between scientists and other actors in the policy process, and which **allow for exchanges, co-evolution, and joint construction of knowledge with the aim of enriching decision-making**"* [Van de Hove, 2007, *Futures* Vol 39, p. 807-826]

Science is just one part of the extensive knowledge-base drawn upon in environmental policy making. It is therefore crucial to find innovative mechanisms to make available updated and ongoing scientific knowledge to underpin the decision-making process. An effective SPI draws on a diverse Stakeholder community. Mechanisms and tools make it possible to exchange and construct knowledge between scientists, policy makers and other stakeholders in the decision-making process. New tools are needed to make Stakeholder dialogue and knowledge exchange more efficient, iterative and timely (see Figure 1).

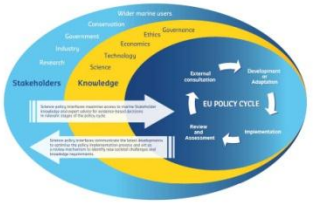

Figure 1: Components of an effective Science-Policy interface showing the important role of Stakeholders and Knowledge and the need for multi-way dialogue to promote evidence-based decision making.
Source: NFIV, Chapter 13, Marine SPI, European Marine Board 2013, p.168]
http://www.marineboard.eu/images/publications/Navigating%20the%20Future%20IV-168.pdf

Participants are invited to discuss **'Choosing the best SPI tools'**, in the context of the Marine Strategy Framework Directive, focusing on 2 topics:

1. Maximizing Stakeholder interaction in the MSFD process.
2. Enhancing scientific knowledge transfer and uptake into MSFD policy.

At all times, keep in mind the following cross-cutting issues:

a) **Multiple geographical scales** (e.g. National, Sub-Regional, Regional, European)
b) **Timing** and the need to maximize the interplay between the research (longer-term) and policy (shorter-term) time-frames.

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WP4

✓ **Proposal for an effective MSFD SPI: due by June 2014**

Concept paper (additional output produced by STAGES and JRC on request by DG Environment):

- To present options and ways forward for a future Science Policy Interface (SPI) to support MSFD implementation
- Presented in the PCG meeting 10 March 2014

Contact: EU Marine Board Secretariat
Niall McDonough: nmcdonough@esf.or
Kate Larkin: klarkin@esf.org

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MSFD SPI Architecture: 4 key components

1. Harnessing MSFD-relevant Knowledge

- STAGES Knowledge Gate model (EurOcean)
- New capacity at Regional Sea-National levels?

2. Scientific Advice to inform MSFD policy

- MCC4GES (JRC + ICES) flexible expert networks

3. Expert Evaluation and Synthesis, including identification of scientific knowledge gaps and research needs

- New capacity for systematic syntheses of MSFD-relevant knowledge?

4. Knowledge Brokerage: active dialogue science-policy, active exchange

- Communication/knowledge transfer
- Science-Policy interface
- Harnessing knowledge through marine networks

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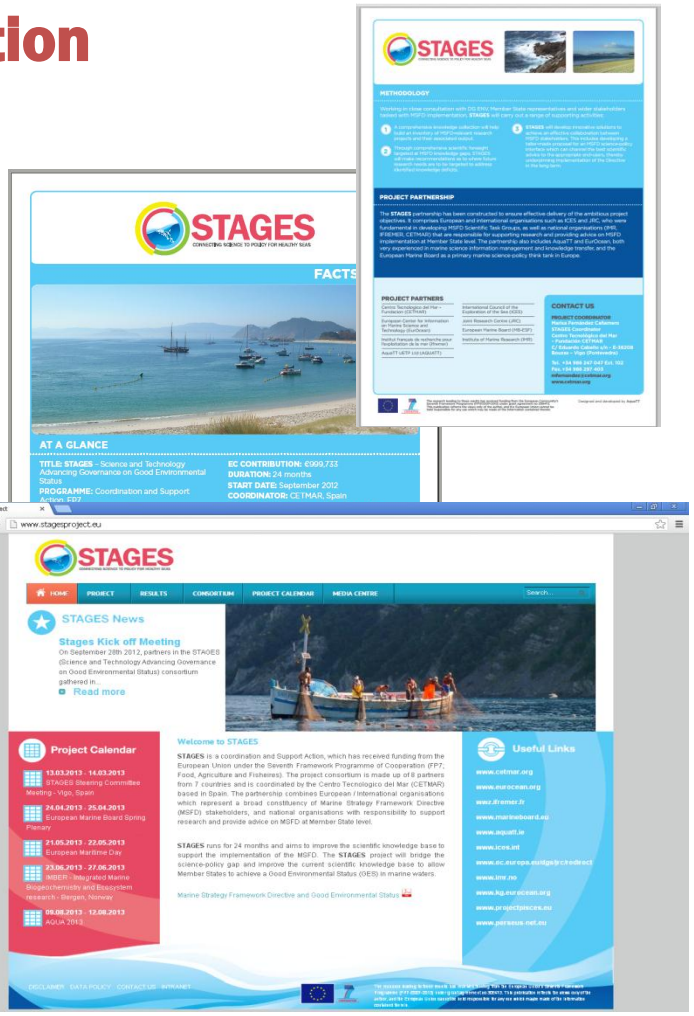
WP5

Knowledge transfer and communication

- **Communication Plan**
- **General dissemination activities**
  - STAGES brand identity (logo,
  - Factsheets and brochure
  - Templates (letters, reports, ppt,..)
  - Project presentations
  - Web site
  - Press releases
  - Video
  - Attendance to conferences
- **Inclusion of WP2 results in the EurOcean Marine Knowledge Gate**
- **Targeted and tailor-made transference of STAGES outputs**
- **Final Conference: 19th June 2014**



STAGES
CONNECTING SCIENCE TO POLICY FOR HEALTHY SEAS

Impact

Make a concrete and tangible contribution for the MSFD implementation and policy work

- **Effective science-based implementation of MSFD**
  - Full access to, and best use of existing scientific knowledge
  - Science policy interface platform designed to meet the needs of MSFD
- **Optimum use of public research funding in support of MSFD**
  - Targeting science and technology funding investments towards addressing critical knowledge gaps
- **Stakeholder involvement and support to MSFD measures**
  - Smoother implementation of MSFD through better stakeholder consultation and buy-in to measures needed to implement MSFD.

STAGES
CONNECTING SCIENCE TO POLICY FOR HEALTHY SEAS

Thanks for you attention !

For more information:

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