



Clustering Knowledge For Policy Needs

Rosa Fernández, Mónica Incera, Raquel Díez, Luis Gómez,
Pablo Fernández, Marisa Fernández CETMAR

Leader of WP5: knowledge Analysis

Leader of CN Marine Governance and Management

Clustering knowledge for policy needs

Content

- Background and motivation
- Where to start from?
- How to deal with a vast information load in a short time?
- What was achievable with resources we could enable?
- The result: 2 Deliverables, a new **case study** of knowledge transfer in COLUMBUS, a useful classification of information for further exploitation.

Background

How this all started?

- Request: the Marine Resources Unit from DG Research, through the COLUMBUS Project Technical Officer transmits **a need**:
 - They would like to have a structured synthesis of the amount of projects, of those funded under FP7 which, to some extent, contributed to major EU Marine Regulations and Marine Bioeconomy Activities.

An **a perception/expectation**:

- With the work under progress in COLUMBUS and the partnership background, we (the partnership) had in our hands sufficient information and materials to fulfill that need. And to do this in a short time!!

Next step

- The need + the expectation of our “Client” = **A NEW PROJECT CHALLENGE** and lots of questions:
- How many projects?
- What would we need to analyse? How deep?
- What sort of statistics could fit the EC’s need? How to report and display the result?
- When should we deliver?
- How much resources? What team would we have available?
- **AND VERY IMPORTANT** what exactly was the background knowledge we could use to deal with this challenge?

Where to start from?

Finding the answers to the previous questions

- How many projects..... Let's call EurOcean!!! At least 840....In fact1242
- To clarify the extent and depth of the analysis.... Call/e-mail COLUMBUS officer!!! Find out how best we can answer their need. Understand the scope of the request.
- When? In 4 months
- Resources: internal rearrangements (organize a team of 5 people to put some time on this work). AquaTT and EC facilitate the conditions.

Where to start from?

Available Knowledge?

- COLUMBUS: The CNs
- STAGES reports
- EurOcean MKG
- CORDIS



Columbus and the Knowledge Transfer Fellows

BIOLOGICAL RESOURCES GOVERNANCE AND MANAGEMENT
FISHERIES AQUACULTURE TOURISM
ENVIRONMENT AND FUTURES PHYSICAL RESOURCES
MONITORING AND OBSERVATION TRANSPORT AND LOGISTICS



How to deal with a in information load of 1242 abstracts in four months?

Two first key decisions

1st. Build a classification structure

2nd. Identify Keywords and define how to use them

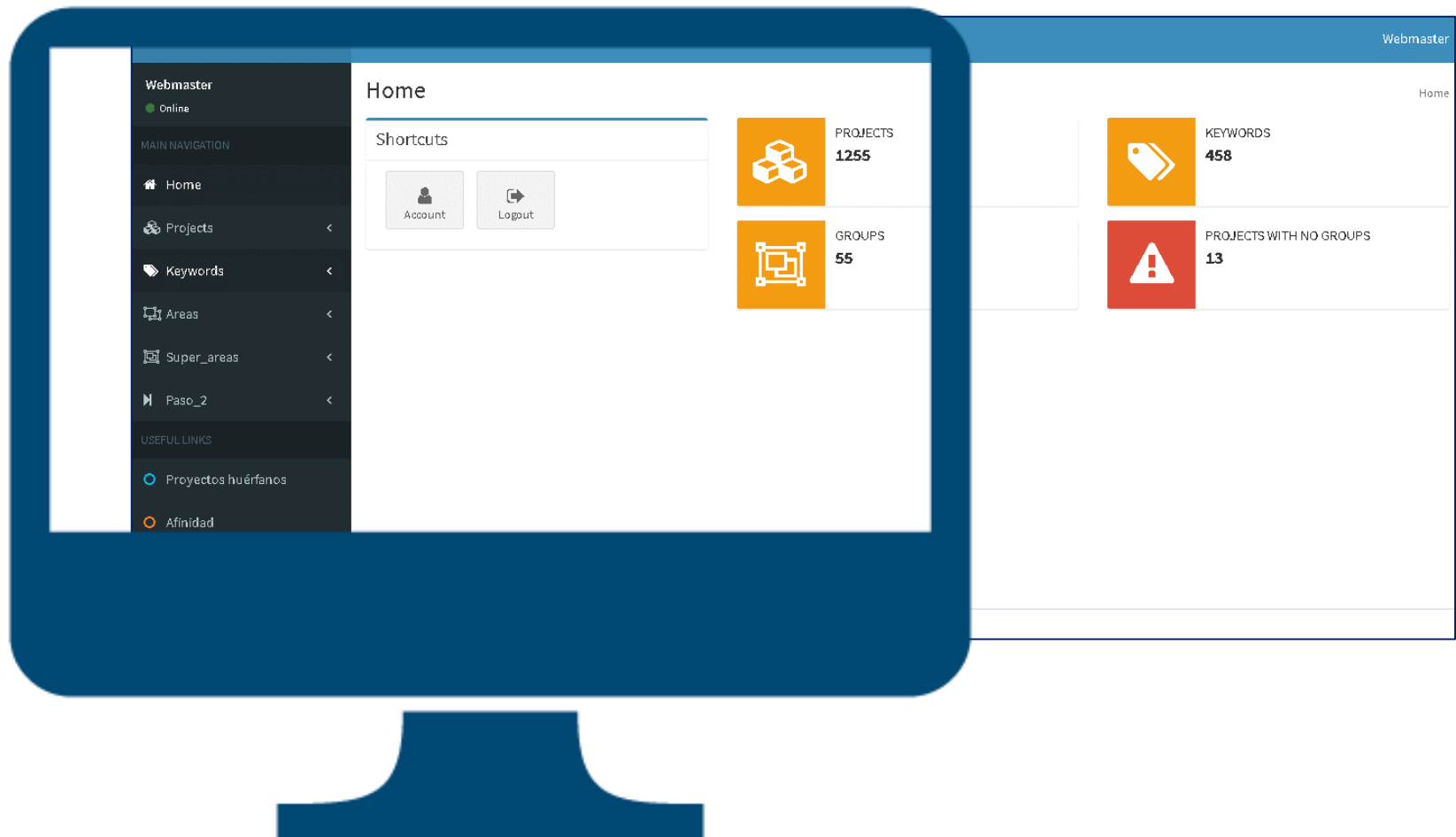
Classification structure

Sectors/Regulations		Research Areas
BLUE ECONOMY SECTORS	BE 1. Aquaculture	BE 1.1. Reducing Administrative burdens
		BE 1.2. Improving access to space and water
		BE 1.3. Increasing industrial competitiveness
		BE 1.4. Quality, safety and sustainable standards for aquaculture
		BE 2.1. Coastal infrastructure
		BE 2.2. Passengers Transport
	BE 3. Blue Biotechnology	
	BE 5. Seabed Mining	BE 4.2. Tidal, wave and other sources of ocean energy
		BE 5.1. Marine Mineral Resources
		BE 5.2. Effects on sea bed integrity and biodiversity
		BE 5.3. Specialised vessels and equipment for marine mining
	BE 6. Maritime Transport	BE 6.1. Maritime surveillance and security
		BE 6.2. Ship building
		BE 6.3 Port facilities, intermodality and cargo
		BE 6.4 Maritime safety

Marine Regulations	CFP. Common Fisheries Policy	CFP 1. Discards and the implementation of the landing obligation
		CFP 2. Small Scale and Recreational fisheries
		CFP 3. Illegal, unreported and unregulated fishing
		CFP 4. Fisheries data and assessment
		CFP 5. Fisheries socioeconomic markets and industrial competitiveness
		CFP 6. Fisheries management
		CFP 7. Environmental impact of fisheries
	MSPD. Marine Spatial Planning Directive	MSPD 1. Sinergies between activities
		MSPD 2. Cross- Border cooperation
		MSPD 3. Marine Observation and Monitoring
		MSPD 4. Ocean mapping
		MSFD 1. Biodiversity
		MSFD 2. Non-indigenous species
		MSFD 3. Commercial fish/shellfish species
		MSFD 4. Ecosystems
		MSFD 5. Marine litter
		MSFD 6. Marine pollution
		MSFD 7. Marine resources
		MSFD 8. Marine environment
		MSFD 9. Marine environment
		MSFD 10. Marine environment
		MSFD 11. Energy - Underwater noise
		MSFD 12. GES assessment
		MSFD 13. Socioeconomic analysis
		MSFD 14. Monitoring programmes
		MSFD 15. Programmes of measures

Non- sectoral and non-specific to targeted policies	CC. Climate Change and Natural Hazards
	GSA. Generic Support Actions
	FR. Fundamental Research

Select keywords and use them. How?



Select keywords and use them. How?

Columbus



Webmaster

Proyectos-Areas

Home > Proyectos-Areas

Project

+ Add Project

Export Print

Search

Actions	Acronym	Title	Summary	Node	Areas
<div>Refresh</div> <div>Edit View</div>	VECTORS	Busca Title	Busca Summary	Busca Node	Busca Areas

Show 100 entries

Input:

Projects' basic info
Structure

Keywords



Columbus

Webmaster

Areas

Home > Areas

Area

+ Add Area

Export Print

Search

Actions	ID	Name	Keywords
<div>Refresh</div>	Busca ID	Busca Name	Busca Keywords
<div>Edit More</div>	1	BE 1.1. Reducing Administrative burdens	farms, farm, farming, governance,...
<div>Edit More</div>	2	BE 1.2. Improving access to space and water	aquaculture, common fisheries...
<div>Edit More</div>	3	BE 1.3. Increasing industrial competitiveness	aquaculture, seafood, shellfish,...
<div>Edit More</div>	4	BE 1.4 Quality, safety and sustainable standards for aquaculture	alga, aquaculture, commercial...
<div>Edit More</div>	5	BE 2.1. Coastal Infrastructure	port, littoral, marina, shoreline,...
<div>Edit More</div>	6	BE 2.2. Passengers Transport	cruise, liner, tourism, passengers,...

Select keywords and use them. How?

Columbus

Webmaster

Online

MAIN NAVIGATION

[Home](#)
[Projects](#)
[Keywords](#)
[Areas](#)
[Super_areas](#)
[Paso_2](#)

USEFUL LINKS

[Proyectos huérfanos](#)
[Afinidad](#)
[Keywords fuera de abstract](#)
[Gráficos Categorías-Proyectos](#)

Projectos-Areas

Home > Projectos-Areas

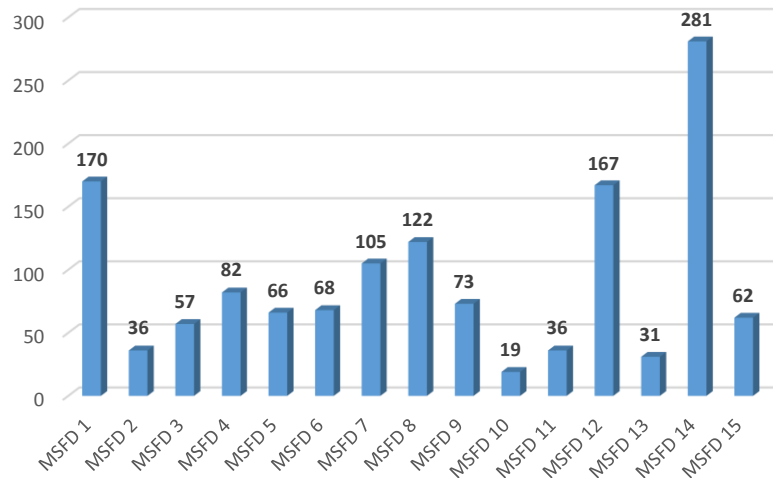
Project

[+ Add Project](#)
[Export](#)
[Print](#)

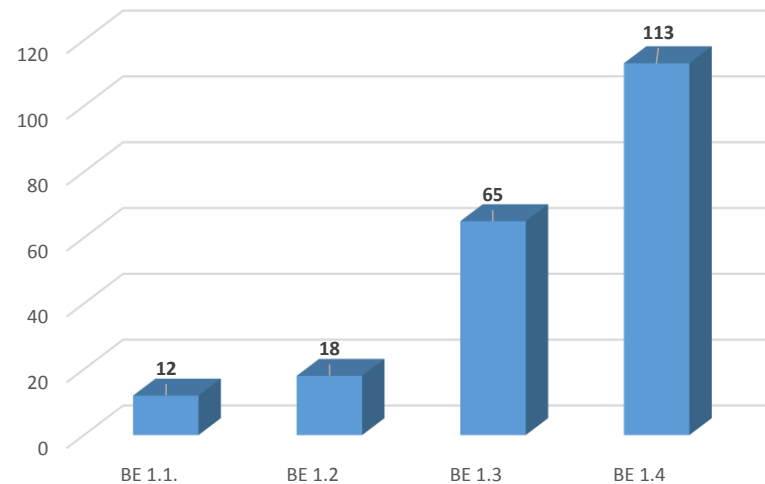
Actions	Acronym	Title	Summary	Node	Areas
	Busca Acronym	Busca Title	Busca Summary	Busca Node	MSFD 10. Marine litter
Edit View	AQUAMAR	Marine Water Quality Information...	Water quality (WQ) is a focus...	Mg&M	MSPD 3. Marine Observatio
Edit View	BIOCLEAN	New BIOTEchnologiCaL approaches...	In BIOCLEAN project, novel and...	MBR	MSFD 10. Marine litter, MSF
Edit View	CLEANSEA	Towards a Clean, Litter-Free European...	There is an urgent need for an...	MEF	MSFD 10. Marine litter, MSF
Edit View	COMMON SENSE	Cost-effective sensors, interoperable...	The COMMON SENSE project will...	MO	MSFD 8. Contaminants, MS
Edit View	CONTAIN	Container Security Advanced Information...	CONTAIN will specify and demonstrate...	Transport	BE 6.1 Maritime Security an Surveillance,...
Edit View	CSA OCEANS	CSA Healthy and Productive Seas...	CSA Oceans aims to reduce the...	Mg&M	MSFD 8. Contaminants, MS
Edit View	ECSAFESEAFOOD	Priority environmental	Seafood has been recognized as...	Mg&M	MSFD 14. Monitoring progr

Stats.

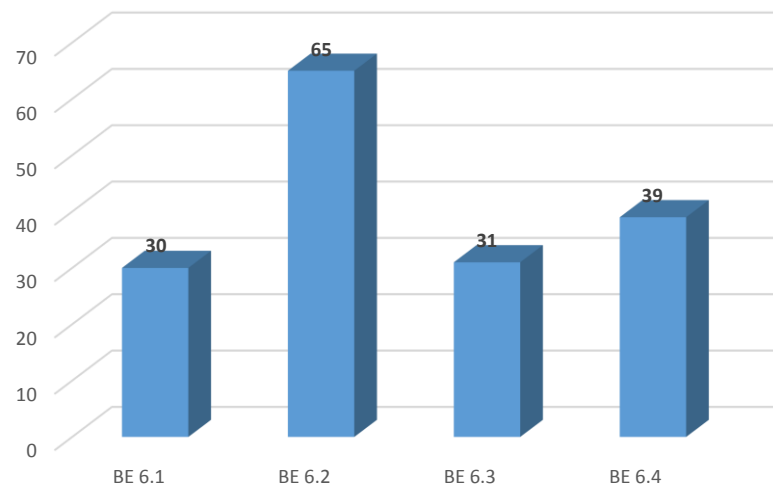
Marine Strategy Framework Directive



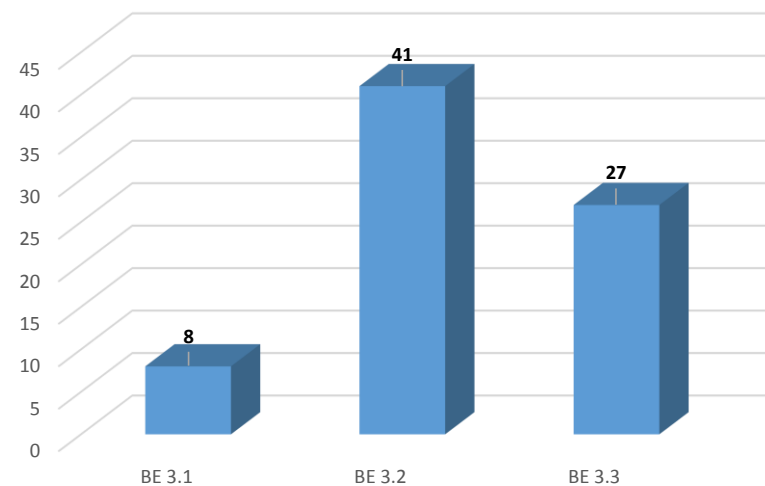
BE 1. Aquaculture



BE 6. Maritime transport



BE 3. Blue Biotechnology



Analysis

COLUMBUS
D 5.4


Blue biotechnology (BE 3)

Blue biotechnology refers to a segment of the biotechnology sector that is looking at the application of biotechnological processes to discover and obtain new products from marine life that can be used for applications in health, cosmetics, food, fuels, etc.

The vast areas of the ocean and the amount of organisms in the sea, particularly in the deep sea, which are still

unknown and unexplored, this also provides opportunities and to guarantee the coastal communities shall be assured, Protocol³ and the

71 projects have

- BE3.1 M
- BE3.2 M
- BE3.3 M

BE3.3 Marine Biofuels is one of the specific alternative uses of marine biomass that has been fostered by research and innovation investment from FP7 as **27 projects** have been identified for contributions in this low carbon related research. Algae, and in particular, microalgae has been considered a source with big potential in this field. At least 50% of the projects in this sub-area have approached the potential from marine microalgae to produce biofuels (e.g. [ALL-GAS](#), [AT~SEA](#), [BIOALGAESORB](#), [BIOFAT](#), [FUEL4ME](#), [D-FACTORY](#)). Some of the projects include demonstration on systems to boost microalgae biomass production (BIOFAT, [SUNBIOPATH](#), [BIOLEAP](#), D-FACTORY) and other processes of major relevance for marine-refinery production. Projects such as [MIRACLES](#), [BISIGODOS](#) or [SUPRA-BIO](#), have addressed biofuels and other applications and raw materials (from marine and non-marine origin). The marine biorefinery concept for biofuel production have also been approached from other sources such as micro-organisms, by-products and wastes, etc.

Two project deliverables



Acronym: COLUMBUS
Title: Monitoring, Managing and Transferring Marine and Maritime Knowledge for Sustainable Blue Growth
Grant agreement n° 652690

Deliverable 5.4

Listing of classified marine policy and blue economy

Mar-17
Lead parties for Deliverable: CETMAR (with input from EurOcean)
Due date of deliverable: 31st March 2017
Actual submission date: 29th March 2017
Project co-funded by the European Commission within the H2020 Programme (2004-2020)



COLUMBUS Deliverable Number 5.4

Acronym: COLUMBUS
Title: Monitoring, Managing and Transferring Marine and Maritime Knowledge for Sustainable Blue Growth
Grant agreement n° 652690

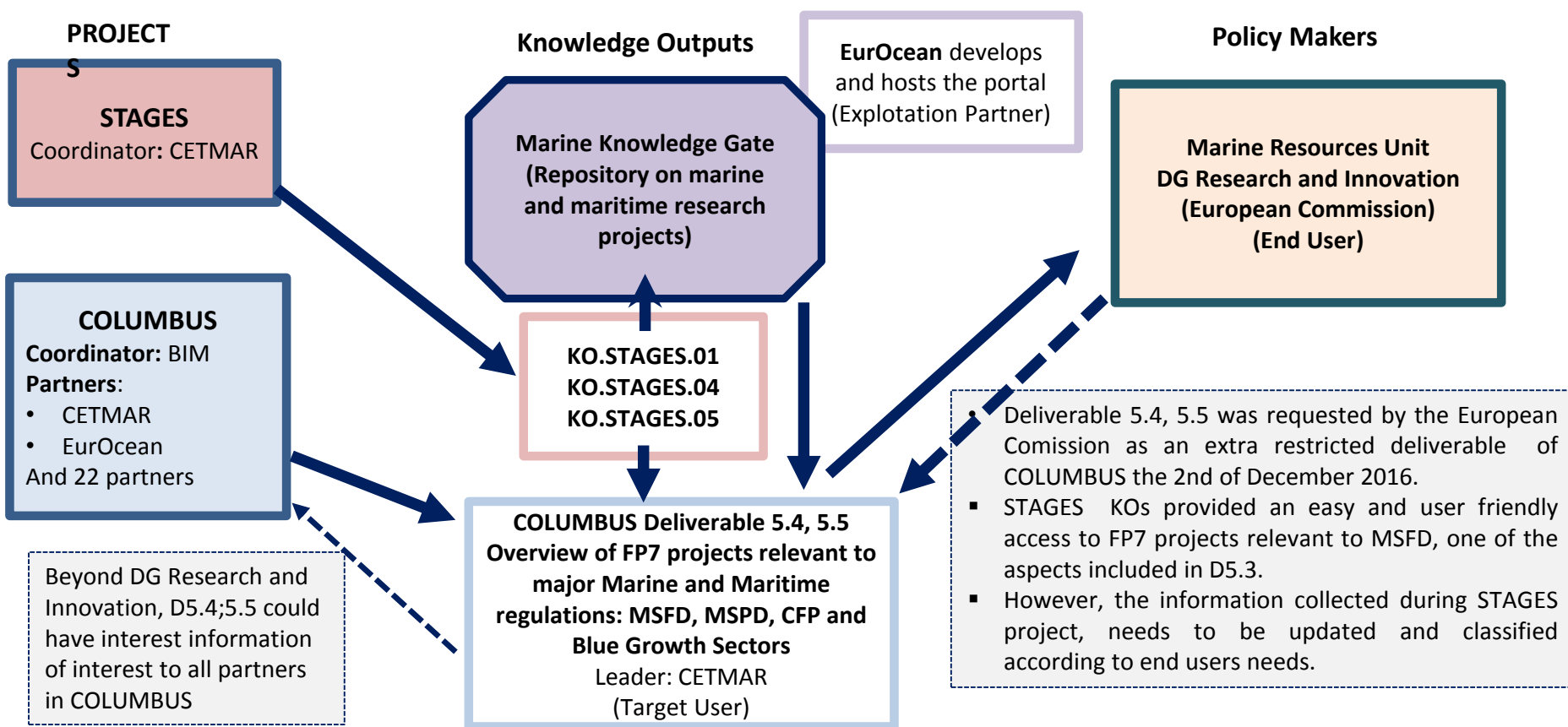
Deliverable 5.4

Overview of FP7 projects relevant to major Marine and Maritime Regulations: MSFD, MSPD and CFP and Blue Growth sectors

March 2017

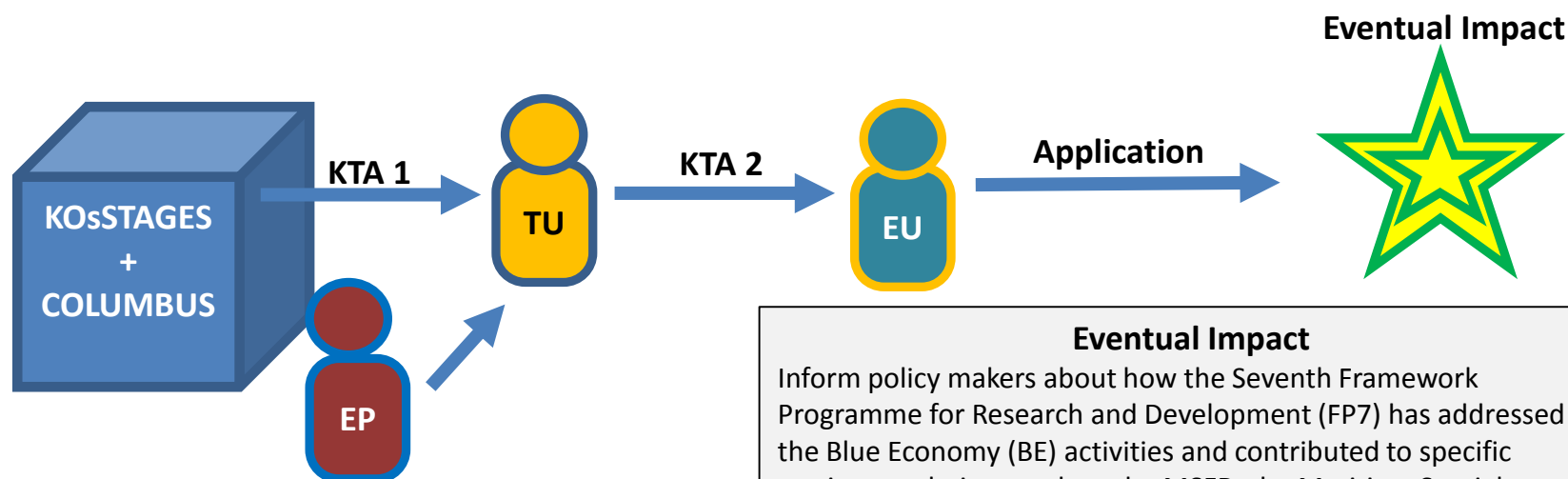
Lead parties for Deliverable: CETMAR (with input from EurOcean)
Due date of deliverable: 31st March 2017

A Case Study fully adapted to the rational of COLUMBUS



A Case Study fully adapted to the rational of COLUMBUS

KNOWLEDGE OUTPUT PATHWAY



TU= Target User: CETMAR team in COLUMBUS
EU=End User: Marine Resources Unit,DG Research and Innovation (EU)
KTA= Knowledge Transfer Activity
EP= Exploitation Partner: EurOcean team in COLUMBUS. They facilitate the KTA2 accomplishment by providing a profiled list of 1242 marine and maritime FP7 projects hosted in the Marine Knowledge Gate to the target user.

Eventual Impact

Inform policy makers about how the Seventh Framework Programme for Research and Development (FP7) has addressed the Blue Economy (BE) activities and contributed to specific marine regulations such as the MSFD, the Maritime Spatial Planning Directive and the Common Fisheries Policy (CFP). In particular, STAGES KOs provided a baseline knowledge to identify and classify FP7 projects with relevance to MSFD implementation.

Thank You



For more information: rfernandez@cetmar.org

Email: info@columbusproject.eu