




HOW WILL HORIZON 2020 SUPPORT BLUE GROWTH?

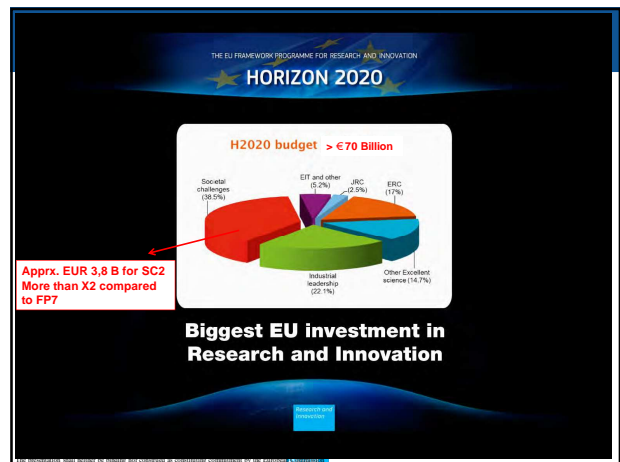
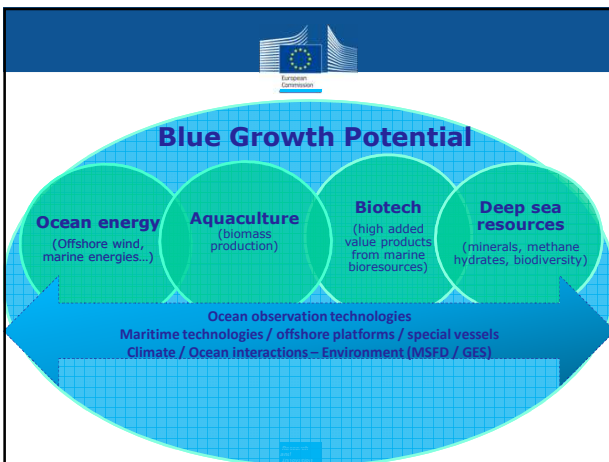
Richard Bates, DG MARE
(Based on DG Research presentation of 17 February 2014)

5th Meeting between EC and IHO
EU/EEA Member States – 19
February 2014



Some Facts and Figures for the Blue Growth Potential

- Oceans cover over 70% of the Planet
- At present oceans bio-resources represent 15% of the animal proteins consumed globally
- The Blue Growth economy today employs 5,4M people but could grow to 7M people employed by 2020 in the EU
- Blue biotech have a yearly growth potential between 5-10%
- Offshore wind power generation is expanding rapidly and could meet 4 % of EU electricity demand by 2020 – 14 % by 2030.
- Deep-sea minerals extraction could gradually represent up to 10% of the world's minerals and from virtually zero to EUR 10 billion/year by 2030




Excellent science

Industrial leadership

Societal challenges

1. Health, demographic change and wellbeing
2. Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy
3. Secure, clean and efficient energy
4. Smart, green and integrated transport
5. Climate action, resource efficiency and raw materials
6. Inclusive, innovative and reflective societies
7. Secure societies

The presentation shall neither be binding nor constitute a constituting commitment by the European Commission



Three calls

Sustainable Food Security

- Sustainable food production systems
- Safe food and healthy diets and sustainable consumption
- Global drivers of food security

Blue Growth

- Sustainably exploiting the diversity of marine life
- New offshore challenges
- Ocean observation technologies/systems
- Socio-economic dimension - engagement with society

Innovative, Sustainable and Inclusive Bioeconomy

- Sustainable agriculture and forestry
- Sustainable and competitive bio-based industries
- Cross-cutting actions covering all the activities

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BLUE GROWTH FOCUS AREA



Why a Blue Growth Focus Area in H2020 ?

- New activity 2.5 in Horizon 2020 Specific programme: "cross-cutting marine and maritime research"
- Adopt a strategic approach to cross-cutting marine and maritime research to underpin Integrated Maritime Policy and Blue Growth Strategy
- Catalyse efforts of different Societal Challenges or H2020 priorities to address complex cross-cutting marine and maritime research questions that could not be tackled by a single Societal Challenge
- Take stock of and go further the FP7 experience "The Ocean of Tomorrow" (31 projects, €195M) on cross-thematic marine and maritime research

BLUE GROWTH FOCUS AREA



What is the Blue Growth Focus Area in H2020 ?

- Large and complex cross-cutting initiatives in 5 priority areas :

1. Sustainably exploiting the diversity of marine life
2. New offshore challenges
3. Exploitation of deep sea resources – deep sea mining (not covered in 2014-2015)
4. Ocean observation technologies/systems
5. Socio-economic aspects

BLUE GROWTH FOCUS AREA



Blue Growth Call 2014-2015

- First Blue Growth Call just launched
145M€ for 2014-2015
- 10 topics in 2014 and 6 topics in 2015
- Involvement of SC2 (Sustainable Food Security), SC5 (Climate Action), SC4 (Transport) and SC3 (Energy)
- Strategic approach to international Cooperation

BLUE GROWTH FOCUS AREA




International cooperation: The Transatlantic Ocean Research Alliance

Launched in May 2013 (Galway Statement) under Irish Presidency with Commissioners Geoghegan-Quinn & Damanaki

Goal: To better understand the Atlantic Ocean and to promote the sustainable management of its resources. The work will also study the interplay of the Atlantic Ocean with the Arctic Ocean, particularly with regards to climate change.

In WP 2014-2015: Several topics are identified as relevant for the Galway Statement.

BLUE GROWTH FOCUS AREA
WP 2014-2015



AREA 1: Sustainably exploiting the diversity of marine life (56 M€)



BG 3 – 2014: Novel marine biomolecules (Research & Innovation action – 20 M€)

BG 4 – 2014: Potential of marine-derived enzymes (Innovation Action – 6 M€)

BG 1 – 2015: Atlantic marine ecosystems (Research & Innovation action – 20 M€) 

BG 2 – 2015: Effects of climate change on fisheries and aquaculture (Research & Innovation action – 10 M€)

BLUE GROWTH FOCUS AREA
WP 2014-2015



AREA 2: The new offshore challenge (26 M€)



BG 5 – 2014: Innovative offshore economy (Coordination and Support Action - 2 M€)

BG 6 – 2014: Sub-sea technologies (Research and Innovation action - 16 M€)

BG 7 – 2015 : Response capacities to oil spills and marine pollutions (Research and Innovation action- 8M€)

BLUE GROWTH FOCUS AREA
WP 2014-2015



AREA 3: Ocean observations systems and technologies (30 M€)


BG 8 – 2014 Atlantic Ocean Observations 
(Research and Innovation action- 20M€)

BG 9 – 2014: Acoustic and Imaging Technologies
(Research and Innovation action- 10M€)



Research and Innovation

BLUE GROWTH FOCUS AREA
WP 2014-2015




AREA 4 : Horizontal aspects (33M€)

BG 10 -2014 : Competitiveness of seafood markets
(Research and Innovation action-10M€)

BG 11 – 2014 Monitoring, disseminating and valorising research outputs (Coordination and Support Action - 4 M€)

BG 12 – 2014/2015 : Supporting SMEs efforts for the Blue Growth : marine biotechnologies, aquaculture and related technologies (SME instrument - 8 M€)



Research and Innovation

BLUE GROWTH FOCUS AREA
WP 2014-2015



AREA 4 : Horizontal aspects

BG 13 – 2014 : Ocean Literacy: Oceans and human health
(Coordination and Support Action-3,5M€)  

BG 14 – 2014 :Transatlantic Ocean Cooperation research Alliance
(Coordination and Support Action Action-3,5M€) 

BG 15 – 2014 : European polar research Cooperation
(Coordination and Support Action-2M€) 

BG 16: 2015 : Support to the Joint Programming Initiative on "Healthy and Productive Seas and Oceans" (Coordination and Support Action-2M€)

Research and Innovation

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Marine & Maritime Research in other parts of H2020


Societal Challenges:
 SC2: Sustainable Food Security call (SFS): Aquaculture & Fisheries (3 topics - discards, diseases, Ecosystem approach)
 SC3 (Energy): Competitive Low Carbon Energy (LCE) : 4 topics can cover ocean energy/offshore wind
 SC4 (Transport) Mobility for Growth transport (MG) : 3 topics
 SC5 (Climate): raw materials/deep-sea mining (2 topics), Earth Observation: (2 topics)

LEIT:
 KET Biotechnology

Excellent Science:
 Infrastructure

Research and Innovation

BLUE GROWTH FOCUS AREA
WP 2014-2015



Examples of Maritime research in other parts of Horizon 2020*


Sustainable Food Security in Societal Challenge 2

- SFS-9-2014: Towards a gradual elimination of discards in European fisheries (€ 10 million)
- SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals
 € 7 million for 2014 (fish parasites), € 4 million for 2015 (mollusc diseases)
- SFS-11-2014/2015: Implementation of an Ecosystem-based approach for European aquaculture
 € 3 million for 2014 (spatial planning), € 7,5 million for 2015 (aquaculture/environment)

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*this list is not exhaustive

Research and Innovation

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Modalities:

Research and Innovation Actions	} Two-stage evaluations First deadline: 12/03/2014 Second deadline: 26/06/2014
Innovation Actions	
Coordination and Support actions	} Single-stage evaluation Deadline: 26/06/14

Find out more and get support :
<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

Research and Innovation

BLUE GROWTH




More INFO:

What has been funded under FP7?
Check the NEW brochure on "The Ocean of Tomorrow" projects (2010-2013)
http://ec.europa.eu/research/bioeconomy/pdf/ocean-of-tomorrow-2014_en.pdf

SAVE the DATE:

1st "Ocean of Tomorrow" Projects' Conference: 26 March 2014
Brussels (more info soon)



**Thank you for
your attention!**

Find out more:

www.ec.europa.eu/research/horizon2020

Official documents:
<http://ec.europa.eu/programmes/horizon2020/en/how-get-funding>

