



# BIOECONOMY IN THE HORIZON 2020

## Blue Growth

Santander, 25 de Marzo de 2015



**Marta Conde Vidal**

*National Contact Point SC2 Bioeconomy & LEIT Biotechnology*

**José Manuel González**

*Spanish Delegate SC2 Bioeconomy*

*CDTI.- Ministry of Economy and Competitiveness*

*International Programmes Directorate*

*European Programmes Division*

+34 91 581 55 62.- [marta.conde@cdti.es](mailto:marta.conde@cdti.es); [josemanuel.gonzalez@cdti.es](mailto:josemanuel.gonzalez@cdti.es)



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- **ADDITIONAL EUROPEAN R&D INITIATIVES**

# BIOECONOMY in the H2020

## Legislation and political context



### At European level

- Europe 2020. A strategy for smart, sustainable & inclusive growth. (3.3.2010) COM(2010) 2020 Final.
- Innovating for Sustainable Growth: A Bioeconomy for Europe. (13.02.2012) COM (2012)60 Final.
- H2020- Regulation (EU) N°1291/2013 of de European Parliament and of the Council.
- Specific Programme H2020. Council Decision(2013/743/UE). (03.12.2013)

### At national level

- Spanish strategy for science, technology and innovation (2013-2020)
- Spanish national plan for scientific & technological research and innovation (2013-2016)

# BIOECONOMY in the H2020

## Legislation and political context



**Support to Policies is essential** - links between research projects and EU policies

- **DG Health and Consumers (DG SANCO):** plant health protection, animal health and welfare, food security and food safety, sustainability, obesity, ...

- **DG Agriculture and Rural Dev. (DG AGRI):** organic farming, quality products.

- **DG Environment (DG ENV):** soil protection, water, waste management, genetic resources (agriculture, forest and microbial)

- **DG Maritime Affairs and Fisheries (DG MARE):** Common Fisheries Policy (FCP), EU Integrated Maritime Policy, Blue Growth Strategy, Maritime Spatial Planning Directive, cooperation with international partners.

- **DG Enterprise and Industries (DG ENTR):** eco-innovation in the food industry, particularly SMEs, development of industrially relevant technologies

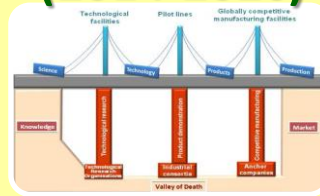


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# BIOECONOMY in the H2020

## H2020 – Framework Programme for Research & Innovation (2014-2020)



### Excellent Science

### Industrial Leadership

### Societal Challenges

European Research Council (ERC)

Future and Emerging Technologies (FET)

Marie Skłodowska-Curie actions on skills, training and career development

European research infrastructures

ICT

Nanotechnology

**Biotechnology**

Advanced Materials

Advanced Manufacturing & Processing

Space

Access to Risk Finance

Innovation in SMEs

Health, demographic change and wellbeing

**Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy;**

Secure, clean and efficient energy;

Smart, green and integrated transport;

Climate action, environment, resource efficiency and raw materials

Europe in a changing world-Inclusive, innovative and reflexive societies

Secure Societies: Protecting freedom and security of Europe and its citizens





# BIOECONOMY in the H2020

## H2020 – Framework Programme for Research & Innovation



### BUDGET

**Excellent Science**

**Industrial Technologies**

**Societal Challenges**

<b>HORIZONTE 2020</b>		<b>79.402</b>
<b>I. Prioridad «Ciencia excelente»</b>		<b>24.441</b>
1. El Consejo Europeo de Investigación (CEI)		13.095
2. Las Tecnologías Futuras y Emergentes (FET)		2.696
3. Las acciones Marie Skłodowska-Curie		6.162
4. Las infraestructuras de investigación		2.488
<b>II. Prioridad «Liderazgo industrial»</b>		<b>17.016</b>
1. Liderazgo en tecnologías industriales y de capacitación:		13.557
1.1 Tecnologías de la información y la comunicación (TIC)		
1.2 Nanotecnologías, 1.3 Materiales avanzados y 1.5 Fabricación y transformación avanzadas		
1.4 Biotecnología		
1.6 Espacio		1.536
2. Acceso a la financiación de riesgo		2.842
3. Innovación en las PYME		616
<b>III. Prioridad «Retos sociales»</b>		<b>29.679</b>
1. Salud, cambio demográfico y bienestar		7.472
2. Seguridad alimentaria, agricultura sostenible, investigación marina y marítima y bioeconomía		3.851
3. Energía segura, limpia y eficiente		5.931
4. Transporte inteligente, ecológico e integrado		6.339
5. Acción por el clima, eficiencia de los recursos y materias primas		3.081
6. Sociedades inclusivas		1.309
7. Sociedades seguras		1.695
Ciencia con y para la sociedad		462
Ampliando la participación		816
Instituto Europeo de Innovación y Tecnología (EIT)		2.711
Acciones directas no nucleares del Centro Común de Investigación (JRC)		1.903
EURATOM (2014-2018)		2.374

Precios corrientes en M€

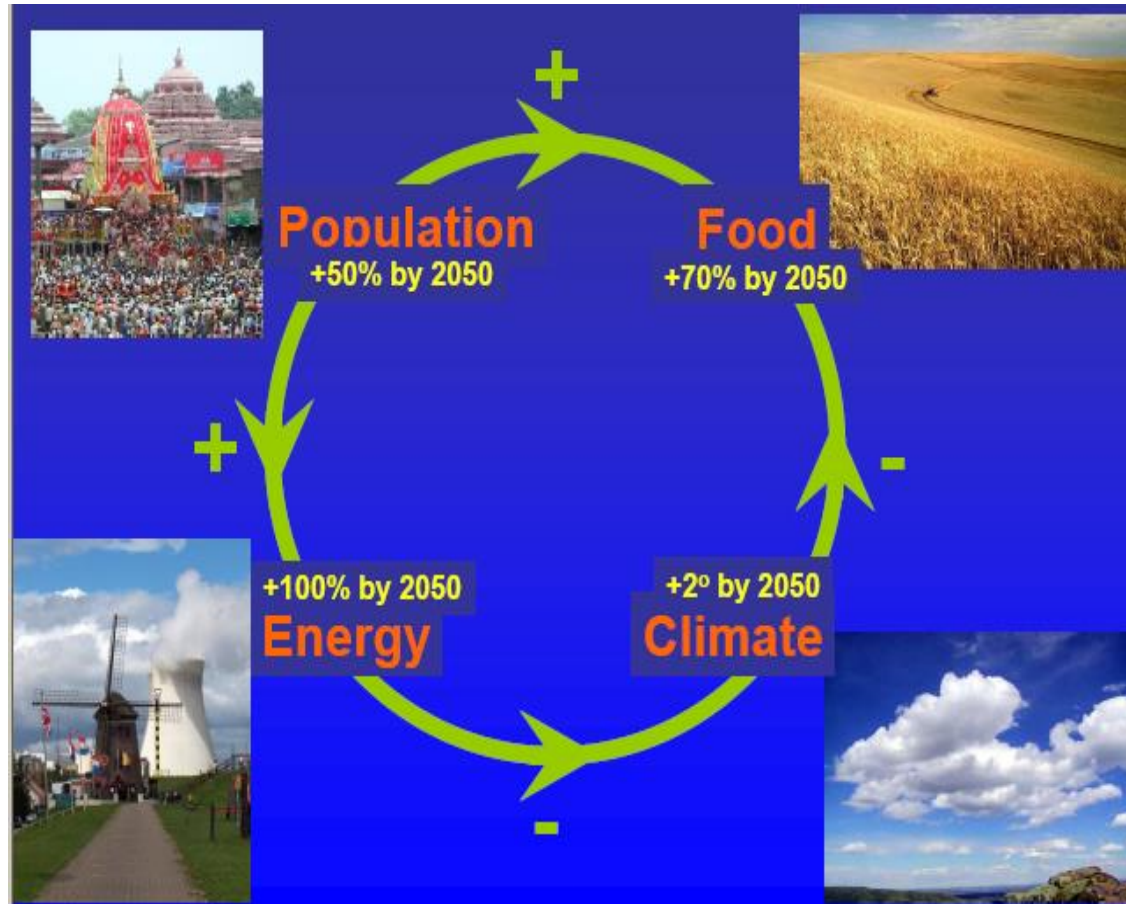




# BIOECONOMY in the H2020

## SC2 - BIOECONOMY – Grand Challenge

### Addressing “GRAND CHALLENGES”.



Fuente: Patrick Cunningham, KBBE Conference Brussels 14th September 2010  
José María Sumpsi, "Los retos de la agricultura para alimentar al mundo en 2050".

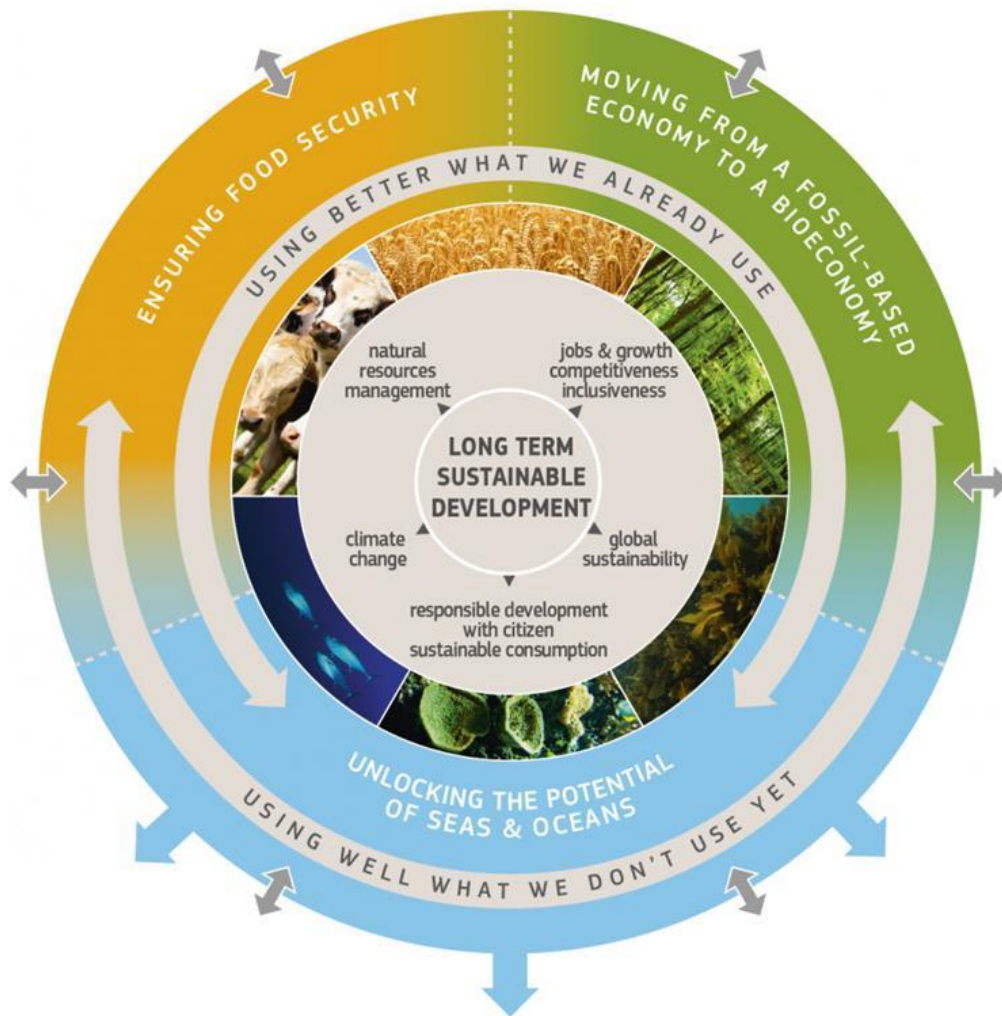


# BIOECONOMY in the H2020



**The Bioeconomy starts here!**

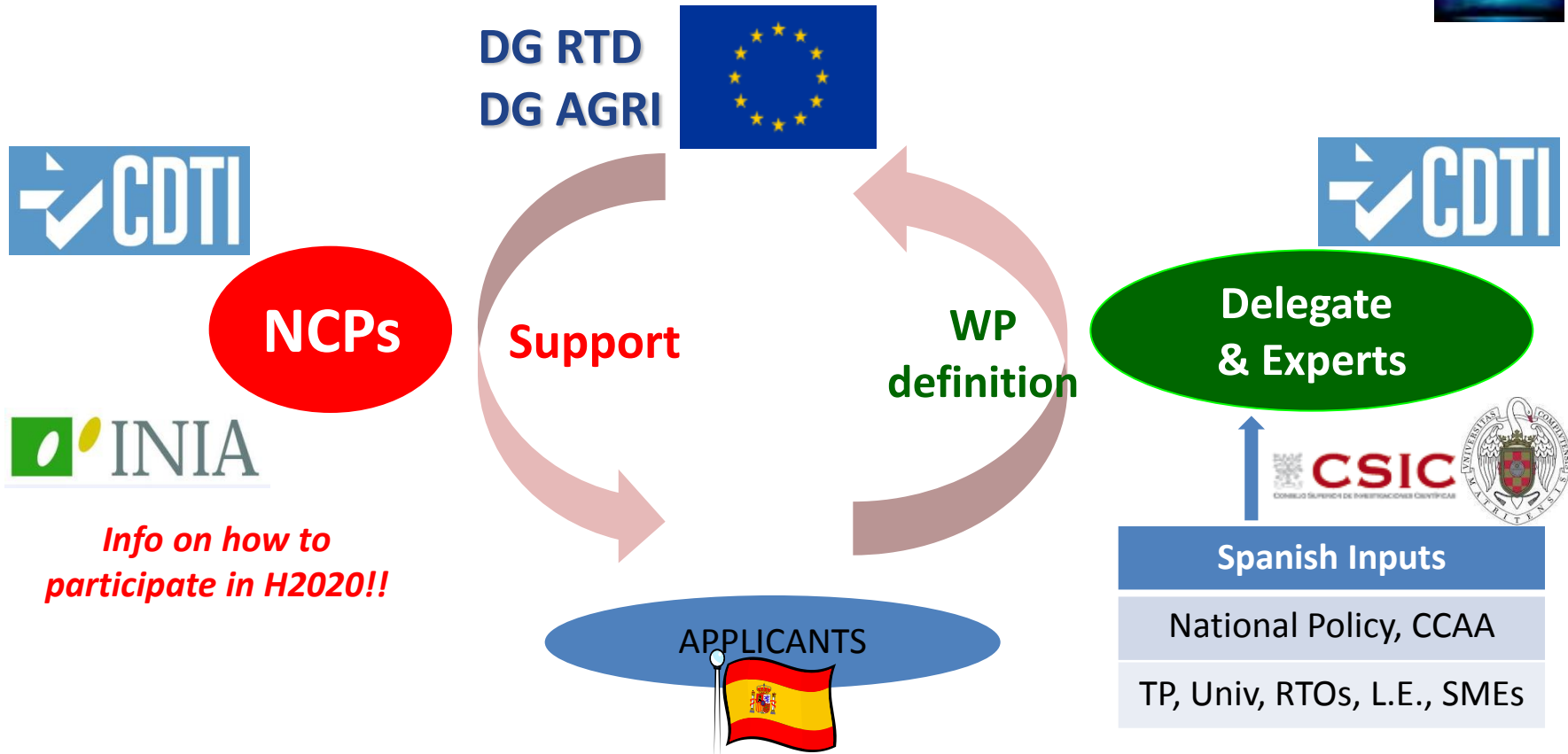
<http://www.youtube.com/watch?v=2xvXkOMRTs4>



*Brussels, 13.2.2012  
COM(2012) 60 final*



# BIOECONOMY in the H2020



*Info on how to participate in H2020!!*

## SC2 Bioeconomy + LEIT (Biotechnology)

- **Marta Conde (CDTI) - NCP**
- **Andrés Montero (INIA) - NCP**

## SC2 Bioeconomy

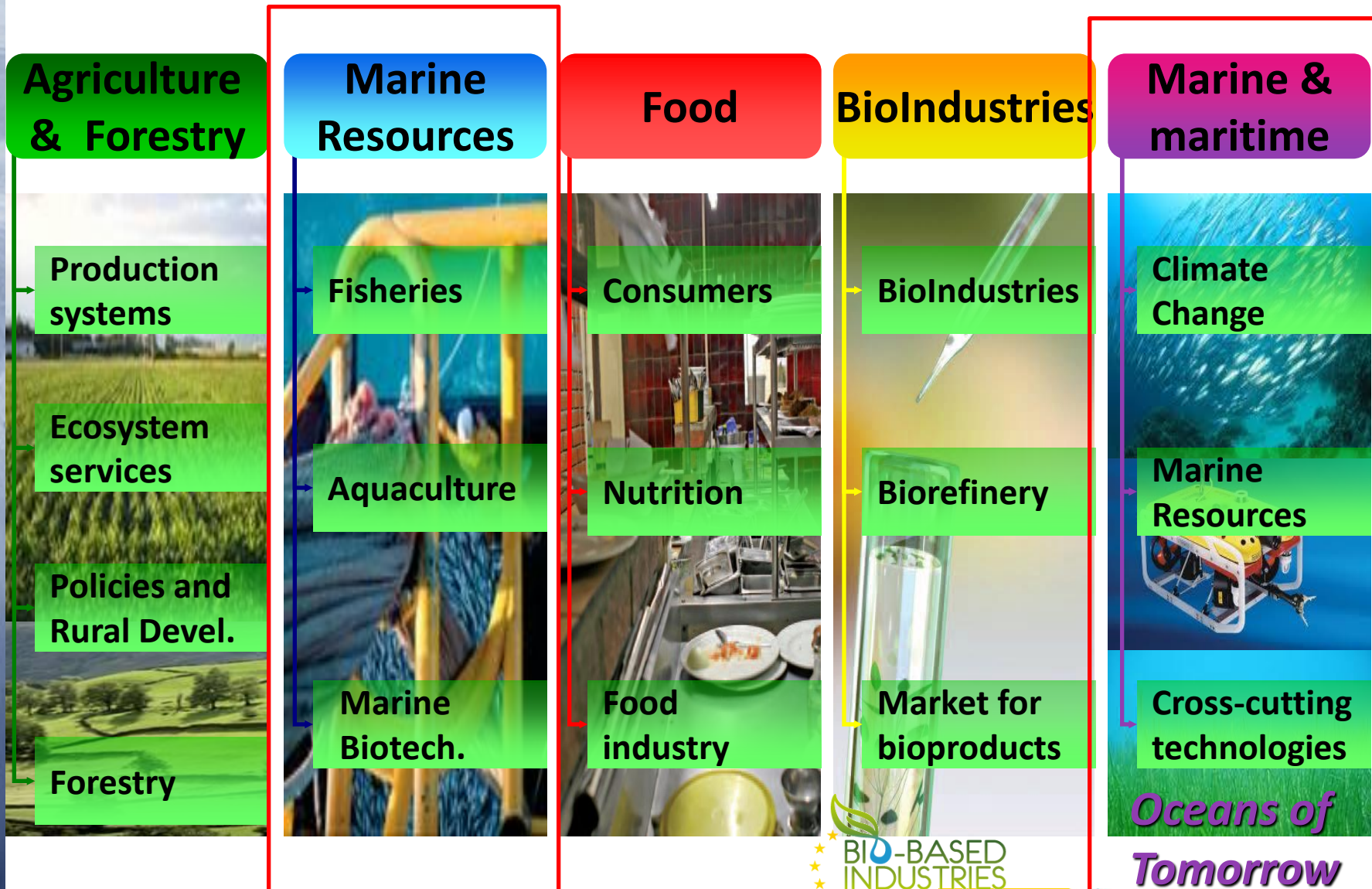
- **José Manuel González (CDTI) - Delegate**
- **Luis Miguel Ortega (UCM) – Expert**
- **Mónica de Prado (ELIKA) – Expert CCAA**

## LEIT (Biotechnology)

- **Lucía Iñigo (CDTI) - Delegate**
- **Carles Cane (CNM) - Expert**

# BIOECONOMY in the H2020

## SC2 - BIOECONOMY – Structure and Contents





# BIOECONOMY in the H2020

## SC2 - BIOECONOMY – Structure and Contents



### Marine Resources

#### Fisheries

#### Aquaculture

#### Marine Biotechnology

### Developing sustainable and environmentally-friendly fisheries

- In depth understanding of marine ecosystems (new insights, tools and models to improve understanding of what makes marine ecosystems healthy and productive)
- Evaluate & mitigate the impact of fisheries on marine ecosyst. (including deep sea).
- The socio-economic effects of management options will be measured.
- Effects and adaptation to environmental changes, including climate change.
- Research on the biology, genetics and dynamics of fish populations, on the role of key species in the ecosystems, on fishing activities
- Shared use of maritime space with other activities, in particular in the coastal zone, and its socio-economic impact will also be addressed.
- Research on fishing sector behaviours & adaptation to new markets (eco-labelling).

### Developing competitive European aquaculture

- Development of healthy, safe and competitive products.
- Domestication of established species and diversification for new species.
- Interactions between aquaculture and aquatic ecosystems, effects of climate change
- Sustainable production systems in inland, on the coastal zone and offshore.
- Understanding the social and economic dimensions of the sector to underpin cost and energy efficient production.
- Research on health/diseases, nutrition issues, reproduction & breeding of farmed aquatic organisms.

### Boosting marine innovation through biotechnology

- Discovery of new species and applications in the field of marine biotechnologies, which is foreseen to generate a 10 % annual growth for this sector.
- Explore and exploit marine biodiversity and aquatic biomass to bring new innovative processes, products and services on the markets with potential applications in sectors including chemical and material industries, pharmaceutical, fisheries and aquaculture, energy supply and cosmetic.

# BIOECONOMY in the H2020

## SC2 - BIOECONOMY – Structure and Contents



### Climate change impact on marine ecosystems and maritime economy

- Understand the functioning of marine ecosystems, the interactions between oceans and the atmosphere.
- Increase the ability to assess the role of the oceans on climate and the impact of climate change and ocean acidification on marine ecosystems and coastal areas.

### Develop the potential of marine resources through an integrated approach

- Boosting long-term, sustainable maritime growth and create synergies across all the maritime sectors requires an integrated approach.
- Research activities will focus on preserving the marine environment as well as the impact of maritime activities and products on non-maritime sectors.
- Advances in the field of eco-innovation (new products, processes and the application of management concepts, tools and measures) to assess and mitigate the impact of human pressures on the marine environment.
- Towards a sustainable management of maritime activities.

### Cross-cutting concepts and technologies enabling maritime growth

- Cross-cutting enabling technologies (e.g. ICT, electronics, nanomaterials, alloys, biotechnologies, etc.) and new developments and concepts in engineering.
- Marine & maritime research & ocean observation (deep-sea research, observing systems, sensors, automated systems for monitoring of activities and surveillance, screening marine biodiversity, marine geohazards, Remotely Operated Vehicles...)
- Reduce the impact on the marine environment (underwater noise, invasive species and pollutants) and minimise the carbon foot-print of human activities.
- Support the implementation of marine and maritime Union policies.

## Marine and maritime R.

Marine Ecosystems

Marine Resources

Cross-cutting technologies

Oceans of





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BIOECONOMY in the H2020  
**SC2 - BIOECONOMY – Blue Growth**





## SC2 - BIOECONOMY – Blue Growth - Oceans for the future

### A huge potential for EU growth, market and jobs

- 5,4 million jobs in the EU; potential 7 million by 2020
- Gross added value € 500 billion per year
- Sectors having high potential for growth (Blue Growth agenda)
  - Aquaculture (2/3 fish production by 2030, 6,6% growth rate)
  - Marine biotechnology (yearly growth 5 to 10%)
  - Deep sea mining (global annual turnover € 5 billion/next 10 years)
  - Ocean energy (offshore wind employed 35.000 people in 2011)
  - Tourism (2,35 million employed)

[Blue Growth – Opportunities for marine and maritime sustainable growth](#)  
[\(COM \(2012\) 494 final\)](#)

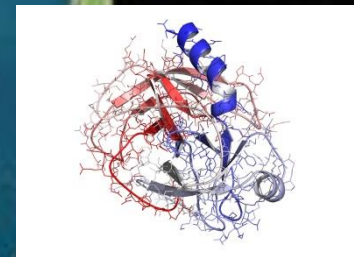
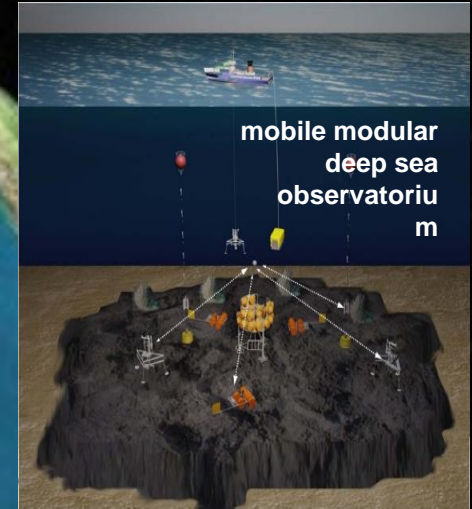
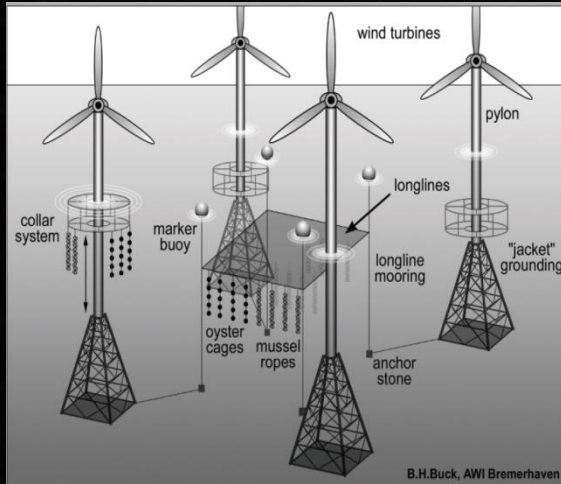
# BIOECONOMY in the H2020

## SC2 - BIOECONOMY – Blue Growth



### The new offshore challenge

### Key Disciplines: Monitoring and Deep Sea Research



**AQUACULTURE - Huge potential for technological and biotechnological innovation**

**Marine Biomass and Biotechnology**

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# BIOECONOMY in the H2020 WORK PROGRAMME. **TIMELINE**



2014	2015	2016	2017	2018	2019	2020
Strategic Programme						
Work Programme 1		Strategic Programme				
		WP 2 (+ 2018 info?)		Strategic Programme		
				WP 3 (+ 2020 info?)		WP 4

# BIOECONOMY in the H2020



WORK PROGRAMME 2014-2015. FOCUS AREAS

FOCUS Areas 2014-2015	Health 1	Food 2	Energy 3	Trans 4	Climate 5	Innov. Societ. 6	Secure Societ. 7
<i>Personalising health &amp; care</i>	●	●					
<i>Sustainable food security</i>		●					
<i>Blue growth</i>		●	●	●	●		
<i>Smart cities &amp; communities</i>			●	●			
<i>Competitive low-carbon energy</i>			●				
<i>Energy Efficiency</i>			●				
<i>Mobility for growth</i>				●			
<i>Waste (+NMBP)</i>		●			●		
<i>Water</i>		●			●		
<i>Overcoming the crisis</i>						●	
<i>Disaster-resilience</i>					●	●	
<i>Digital security</i>							●



# BIOECONOMY in the H2020

## WORK PROGRAMME 2014-2015. MAIN FEATURES



- **Biennial WP for 2014 and 2015 (482 M€)**
  - **2014:** 292.5 M€ (238 M€ RIA+IA, 35.5 M€ CSA, 14 M€ SME, 5 M€ ERANET)
  - **2015:** 189.5 M€ (138 M€ RIA+IA, 14.5 M€ CSA, 22 M€ SME, 15 M€ ERANET)
- **Three calls addressing some Focus Areas:**
  - **Sustainable Food Security** (2014: 18 topics, 147M€; 2015: 12 topics, 104.5 M€)
  - **Blue Growth (Seas and Oceans)** (2014: 12 topics, 101M€; 2015: 5 topics, 43 M€)
  - **Innovat. Sust. Inclusive Bioec.** (2014: 11 topics, 44,5M€; 2015: 8 topics, 42 M€)
- **Topics are framed in the context of overall H2020 approach:**  
more general, less prescriptive, larger scope, fewer topics; strong emphasis on expected impact; possible funding +1ppt; strong challenge-based approach, allowing applicants to have considerable freedom to come up with innovative solutions
- **Type of actions: RIA; IA; CSA; SMEs inst.; prizes & FTI**
- **Two stages evaluation procedure (RIA & IA)**

# BIOECONOMY in the H2020 WORK PROGRAMME 2014-2015. CALLS



## 2014 calls

Info to applicants:

19 /26 Nov 2014

Grants:

by end Feb 2015

## 2015 calls:

*Meeting with NCP and Scientific Officer! (tbd)*

21 Nov. 2014:

Info Day (Brussels)

Calls (Focus areas/other)	2015	Opening date	1st stage Closing date	2nd stage Closing date	Topics	Budget (M€)
Sustainable Food Security (SFS)	H2020-SFS-2015-1				12	104,5
	H2020-SFS-2015-2					
Blue Growth (BG)	H2020-BG-2015-1	25/07/2014	03/02/2015	11/06/2015	5	43
	H2020-BG-2015-2					
Innovative Sustainable and Inclusive Bioeconomy (ISIB)	H2020-ISIB-2015-1				5	27
	H2020-ISIB-2015-2					



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# BIOECONOMY in the H2020

## STRATEGIC PROGRAMMING 2016 - 2017



**WP 2016-2017 CDTI Consultation: launched on 3<sup>rd</sup> July 2014**



### Timeline (WP 2016-2017 Preparations)

<b>2014</b>	<b>By the summer break</b>	External consultation, including: - Advisory Groups; - other stakeholders and wider R&I community; - Strategic configuration of the PC (on process, criteria) - Commission services to analyse input on basis of selection criteria and prepare first drafts
	<b>After the summer break</b>	Discussion with PC configurations on the basis of drafted documents
	<b>22 October 26 November</b>	Programme Committee meetings
	<b>December</b>	Proposed 2nd Strategic Programme
<b>2015</b>	<b>First half of the year</b>	Preparation of the WP 2016/17, prepared on the basis of the finalised Strategic Programme
	<b>In the course of Summer 2015 or later</b>	Adoption of the Work Programme; Publication of the calls for 2016/17

**☐ PCM on 18<sup>th</sup> March and 28<sup>th</sup> April**



## WP 2016-2017. From Scoping Paper to WP 2016-2017

### Sustainable Food Security (Focus Area & Call)

- Resilient and resource efficient value chains.
- Environment & climate smart primary production.
- Competitive food industry
- Healthy and safe foods and diets

### Blue Growth (Focus Area & Call)

- Innovation for emerging Blue Growth activities.
- Healthy oceans and seas for healthy people.
- European ocean observation, surveying and monitoring capability

### Rural Renaissance (Call)

- Interlinked rural areas delivering goods and services.
- Modern tools in the service of rural communities (ICT)
- Innovation and skills development.

### Bioeconomy (Call)

- Securing sustainable biomass supply for bio-based goods and services.
- Building “bio-based markets of the future” –mobilising stakeholders.



### Blue Growth (Focus Area & Call)

#### •Innovation for emerging Blue Growth activities.

- Multi-use offshore floating platforms, combining energy production, aquaculture, fisheries, vessel design, and related technologies (sensors, ...)
- Marine biomass integrated bio-refineries (algae) - added value products.
- Exploitation of deep sea mineral

#### •Healthy oceans and seas for healthy people.

- Interaction between humans and oceans. Healthcare and wellbeing
- Innovation for clean coasts and seas
- Improving the safety and dietary properties of fish and seafood.

#### •Strengthening the European ocean observing, surveying and monitoring capability

- Integrated observing Systems in the Artic. Climate change and global warming, development of prediction tools for weather and climate in Northern latitudes.
- Observing Systems in the Mediterranean (improve security and safety of people and goods at sea).

#### •Horizontal activities in BG.

- Blue Med Initiative, Support to SMEs.



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# BIOECONOMY in the H2020 ADDITIONAL EUROPEAN R&D INITIATIVES.- ERANETs



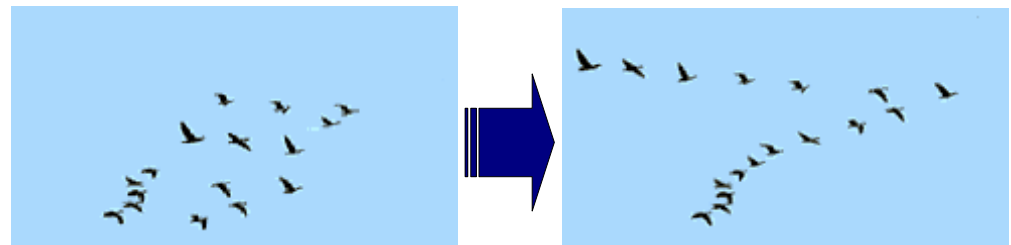
## ERANET & ERANET+ & ERANET Cofund

The EU through the **ERA-NET** scheme creates European **networks** that facilitate the **coordination of national and regional R&D** programs. The objective is to **reduce fragmentation**, maximize cooperation and address the technological challenges of the future.

From 2002 until 2013, 359 calls have been launched with the participation of **72 countries**, a total of **3.400 research projects** have been financed and mobilizing **400 million € mobilized**.

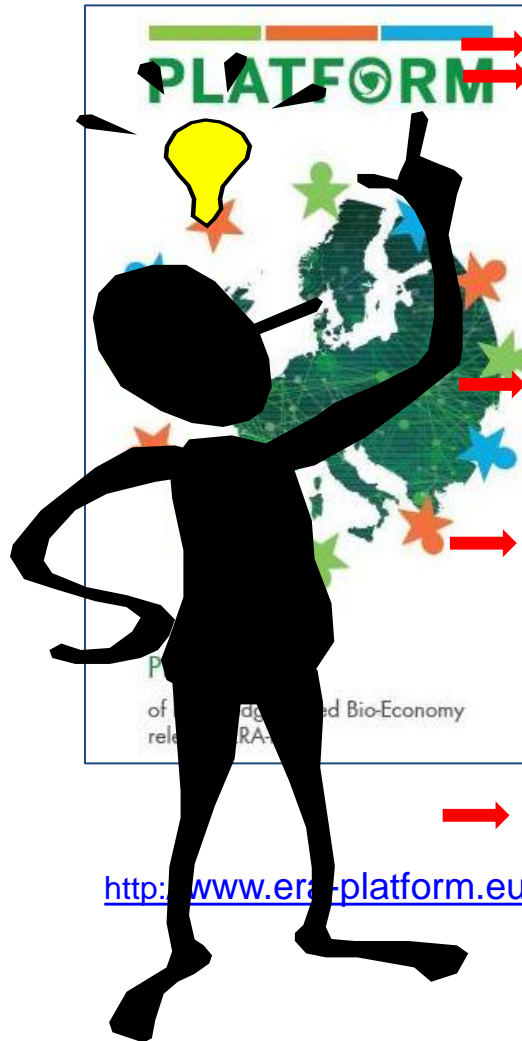
*Source: CDTI Perspective Magazine Nº45*

***Birds show us the way:  
71 % gain of efficiency***





# BIOECONOMY in the ADDITIONAL EUROPEAN



<http://www.era-platform.eu>

FP6 ERA-NET Actions	
ACENET. Coordination and Cooperation in the Field of Applied Catalysis	
BiodiVERsA. An ERA-NET in Biodiversity Research	
CORE ORGANIC. Coordination of European Transnational Research in Organic Food and Farming	
ERA-ARD. The Agricultural Research for Development (ARD) Dimension of the European Research Area	
ERA-IB. Towards an ERA in Industrial Biotechnology	
ERA-NET BIOENERGY. ERA-NET BIOENERGY	
ERA-PG. ERA-NET Plant Genomics	
ERASYSBIO. ERA-NET for Systems Biology	
EUPHRESOCO I. Coordination of European Phytosanitary (Statutory Plant Health) Research	
EUROTRANS-BIO. EUROpean Network of TRANSnational Collaborative RTD for SMEs Project in the Field of Biotechnology	
MariFish. The Coordination of European Marine Fisheries Research Programmes	
SAFEFOODERA. European Excellence in Food Safety Research Programming	
SNOWMAN. Sustainable Management of Soil and Groundwater	
WOODWISDOM-NET. Networking and Integration of National Programmes in the Area of Wood Material Science and Engineering	

FP7 ERA-NET Actions	
ANIHWA. Animal Health and Welfare	
ARIMNET. Coordination of Agricultural Research in the Mediterranean	
ARIMNet2. Coordination of Agricultural Research in the Mediterranean	
BIODIVERSA2. Cooperation and Shared Strategies for Biodiversity Research Programmes in Europe	
CAPITA. Catalytic Processes for Innovative Technology Applications	
C-IPM. Integrated Pest Management (IPM) ERA-NET	
CIRCLE-2. Climate Impact Research and Response Coordination for a Larger Europe	
COFASP. Strengthening Cooperation in European Research on Sustainable Exploitation of Marine Resources in the Seafood Chains – ERANET	
CORE ORGANIC II. Coordination of European Transnational Research in Organic Food and Farming Systems	
EMIDA. Coordination of European Research on Emerging and Major Infectious Diseases of Livestock	
ERA-ARD II. The Agricultural Research for Development Dimension of the European Research Area	
ERA-CAPS. ERA-NET for Coordinating Action in Plant Sciences	
ERA-IB-2. ERA-NET for Industrial Biotechnology 2	
ERA-MBT. MARINEBIOTECH Towards Integrated European Marine Research Strategy and Programmes	
ERASYNBIO. Development and Coordination of Synthetic Biology in the European Research Area	
ERASysAPP. Systems Biology Applications	
ETB-PRO. EURpean Programme for TRANSnational R&D&I Cooperations of BioTech SMEs	
EUPHRESOCO II. EUROPEAN PHYTOSANITARY RESEARCH COORDINATION II	
FORESTERRA. Enhancing Forest RESEARCH in the MEDITERRANEAN through Improved coordination and Integration	
ICT-AGRI. Coordination of European Research on ICT and Robotics in Agriculture and Related Environmental Issues	
ICT-AGRI 2. Information and Communication Technologies and Robotics for Sustainable Agriculture ERA-NET	
PreSto GMO ERA-NET. Preparatory steps towards a GMO research ERA-NET	
RURAGRI. Facing Sustainability: New Relationships Between Rural Areas and Agriculture in Europe	
SEAS-ERA. Towards Integrated European Marine Research Strategy and Programmes	
SUMFOREST. Tackling the Challenges in the Implementation of Sustainable and Multifunctional Forestry through Enhanced Research Coordination for Policy Decisions	
SUSFOOD. Sustainable Food Production and Consumption	
WOODWISDOMNET-2. Networking and Integration of National Programmes in the Area of Wood Material Science and Engineering in the Forest-Based Value Chains	

FP7+ ERA-NET Actions	
BESTF 1. BioEnergy Sustaining the Future	
BESTF 2. BioEnergy Sustaining the Future 2	
CORE Organic Plus. Coordination of European Transnational Research in Organic Food and Farming Systems Plus	
ERA Sysbio+. The consolidation of systems biology research stimulating the widespread adoption of systems approaches in biomedicine, biotechnology, and agri-food.	
FACCE-ERA-NET+. Food Security, Agriculture, Climate Change ERA-NET Plus	
WOODWISDOM-NET+ Pacing Innovation in the Forest-Based Sector. Innovation in the forest-based sector for increasing resource efficiency and tackling climate change with competitive customer solutions	



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## ADDITIONAL EUROPEAN R&D INITIATIVES.- JPIs

### What are Joint Programming Initiatives - JPIs?

Introduced by the EC in **2008** to **implement the ERA**.

The objective is to "**increase the value of relevant national and EU R&D funding by concerted and joint planning, implementation and evaluation of national research programmes**".

In JPI Member States are expected to **coordinate** national research activities, **develop common research agendas**, in order to face **grand societal challenges**. JPIs intends to tackle the challenges that cannot be solved on the national level.



Agriculture Food Security and Climate Change



# BIOECONOMY in the H2020 ADDITIONAL EUROPEAN R&D INITIATIVES.- JPIs (OCEANS)



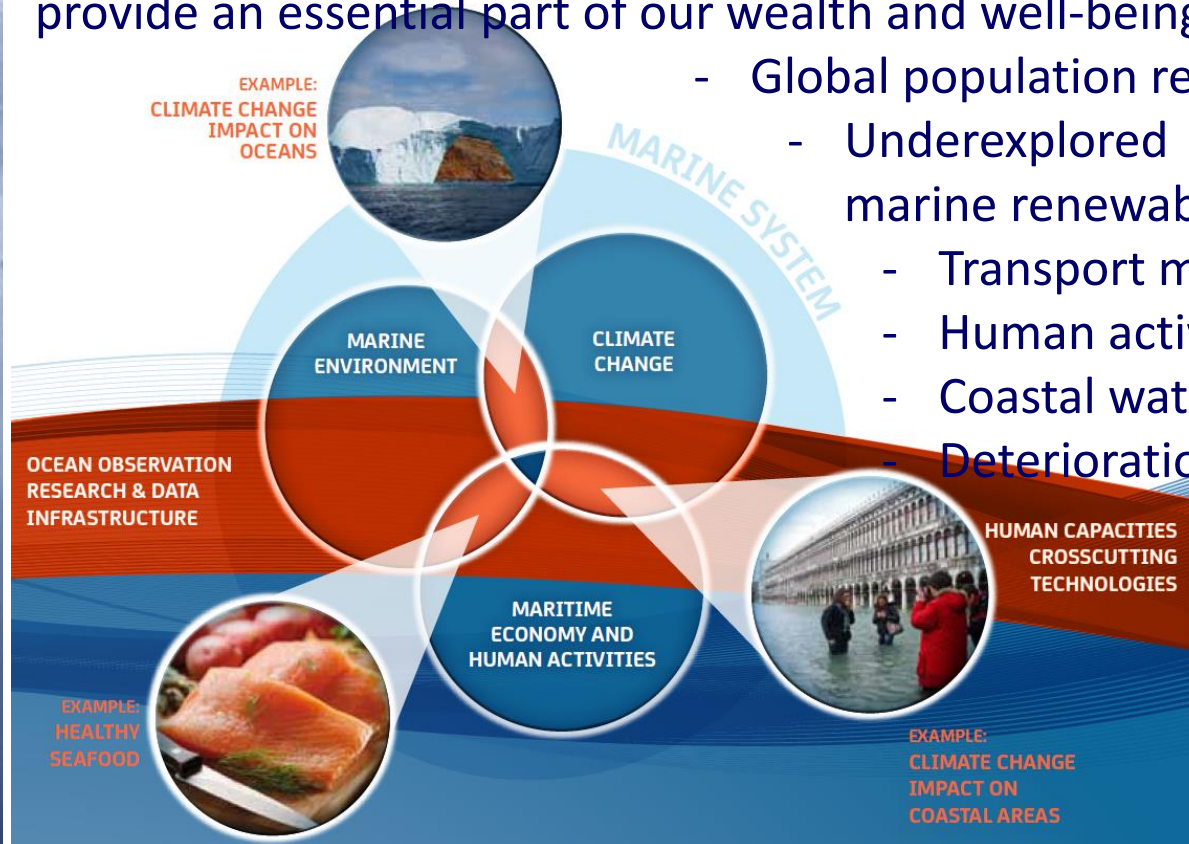
## JPI - HEALTHY PRODUCTIVE SEAS AND OCEANS

<http://www.jpi-oceans.eu/>

<https://vimeo.com/87770231>

Coordinated approach in marine and maritime research. **Seas and Oceans** provide an essential part of our wealth and well-being.

- Global population requires food sources.
- Underexplored marine biodiversity and marine renewable energy.
- Transport modalities and tourism.
- Human activities & climate change.
- Coastal waters & areas
- Deterioration of the marine env.





# BIOECONOMY in the H2020 CDTI's support. What, How, When



# BIOECONOMY in the H2020

## HORIZON 2020.- Documents of interest



### Participant Portal:

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

### Portal español del H2020:

<http://www.eshorizonte2020.es/>

### Guía del participante (Español):

<http://eshorizonte2020.cdti.es/index.asp?TR=C&IDR=2224>

### Listas de distribución del portal español de H2020:

<http://www.eshorizonte2020.es/suscripcion>

### Work Programme “Bioeconomy”:

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014\\_2015/main/h2020-wp1415-food\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-food_en.pdf)

### Innovating for Sustainable Growth. A Bioeconomy for Europe:

[http://ec.europa.eu/research/bioeconomy/pdf/bioeconomycommunicationstrategy\\_b5\\_brochure\\_web.pdf](http://ec.europa.eu/research/bioeconomy/pdf/bioeconomycommunicationstrategy_b5_brochure_web.pdf)

### Information Package: IP in H2020:

<http://www.iprhelppdesk.eu/node/2519>

### Standard briefing evaluators:

<http://www.h2020.es/2014/03/interesante-presentacion-sobre-el.html?m=0>

### Ayudas a la Preparación de Propuestas Comunitarias (APC):

<http://www.cdti.es/index.asp?MP=7&MS=572&MN=3&TR=C&IDR=600>



# Thanks for your attention!

## *Any questions?*

**Marta Conde**

*National Contact Point for SC2 Bioeconomy & LEIT "Biotech"*

**José Manuel González**

*Spanish Delegate to SC2 Bioeconomy*

**CDTI**

**Ministry of Economy and Competitiveness**

**International Programmes Directorate**

**European Programmes Division**

**☎ +34 91 581 55 62.- [marta.conde@cdti.es](mailto:marta.conde@cdti.es); [josemanuel.gonzalez@cdti.es](mailto:josemanuel.gonzalez@cdti.es)**