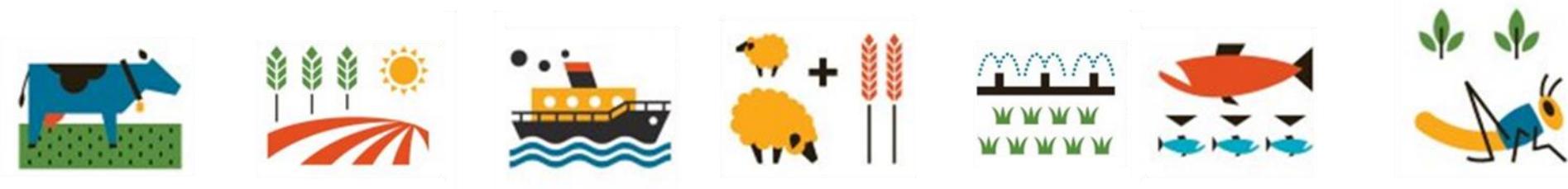


# Oportunidades no Desafio Societal da Bioeconomia (DS2)



Maria João Fernandes | José Antão

Desafio Societal Bioeconomia, H2020  
Pontos de Contacto Nacional



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# Estrutura da apresentação

- Pilar Desafios Societais: *calls* 2017 do **Desafio Societal Bioeconomia**
- **BBI JU**: *call* 2016
- Pilar Liderança Industrial: tópicos 2017 na temática da **Biotecnologia** do Programa NMBP



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DS1. Saúde

DS2. Bioeconomia

DS3. Energia

DS4. Transportes

DS5. Ação climática

DS6. Sociedades inclusivas

DS7. Sociedades seguras

**H2020 – Societal Challenges**

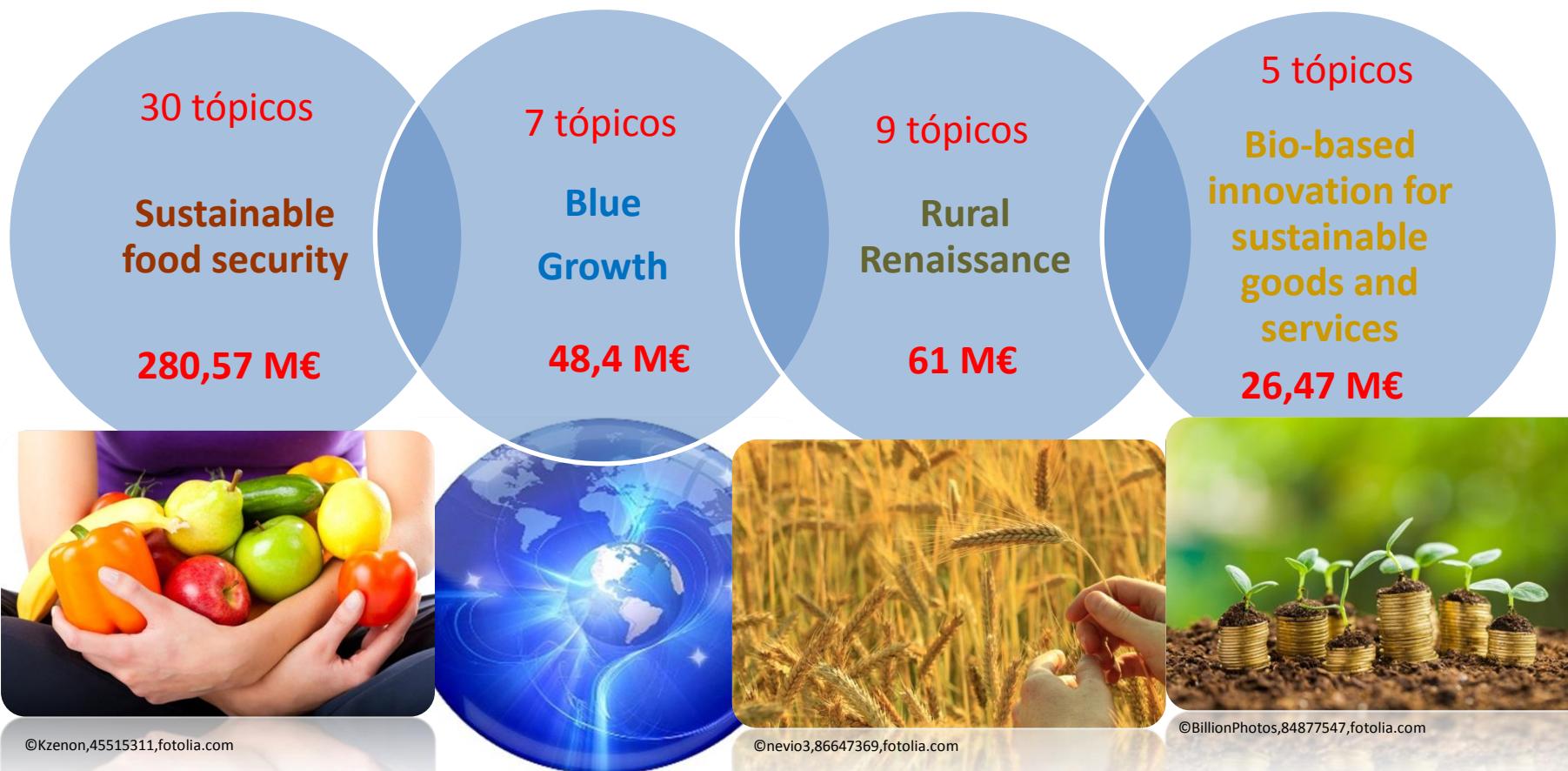


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# Programa de Trabalho 2017 do Desafio Societal Bioeconomia

4 calls | 51 tópicos | 416 M€

Programa de Trabalho ainda não adotado oficialmente



## [Lista de tópicos a concurso](#)

**Deadlines:**

14 Fev 2017 | 13 Set 2017



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## 4 objectivos centrais

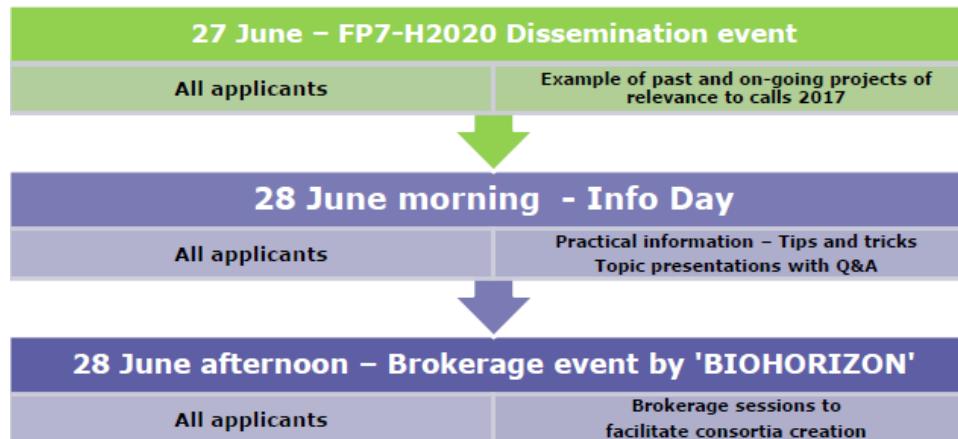
- **Garantir a segurança alimentar, promovendo uma produção primária e uma indústria resilientes e eficientes, bem como o consumo sustentável e saudável** SFS
- **Demonstrar o potencial de inovação dos oceanos, trazendo novas tecnologias para o mercado** BG
- **Promover a inovação e oportunidades de negócio nas áreas rurais e costeiras, através de novas perspectivas territoriais e modelos de negócio** RUR
- **Re-industrializar a Europa, através de novas cadeias de valor de base biológica, assegurando biomassa sustentável** BE



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# SC2 Info Day & Brokerage Event – calls 2017 → Bruxelas, Junho 2016

Apresentações e *webstream* disponíveis online!!



Horizon 2020 Societal Challenge 2 Info Week- 27- 29 June 2016

The Societal Challenge 2 Info Week for the 2017 calls took place on 27- 29 June 2016 in Brussels.

This information week, jointly organised by the Research Executive Agency (REA), DG RTD, DG AGRI and the

BIOHORIZON

consortium, gave an overview of available funding opportunities under the 2017 calls and updates on research results projects funded under Societal Challenge 2. This year, the Info Week was organised earlier than previous ones to anticipate the calls' deadline for the benefit of potential applicants.



## Dissemination Event & Info Day

## Brokerage Event

### Brokerage Event

Food Security | Sustainable Agriculture & Forestry |  
Marine, Maritime & Inland Water Research |  
Bioeconomy | KET-Biotechnology

Brussels 28th June 2016

 BioHorizon



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- **Interdisciplinary projects:** involve the **collaboration of several disciplines** in which concepts, methodologies or epistemologies are **explicitly exchanged and integrated**, resulting in a mutual enrichment (**SFS-39; SFS-40; BG-4**)
- **Transdisciplinary projects:** those in which researchers from different fields not only work together on a common problem **create a shared conceptual model of the problem that integrates and transcends each of their separate disciplinary perspectives.** (**SFS-16; SFS-21; SFS-27; SFS-28; SFS-29; SFS-30; BG-6; BG-11**)
- **Multi-actor approach:** aims at more demand-driven innovation through the **genuine and sufficient involvement of various actors** (end-users, such as farmers, fishers, advisors, enterprises, etc) **all along the project** → the adequate choice of key actors, with complementary types of knowledge (scientific/practical) **should be reflected in the consortium and in the description of the project concept and result in a broad implementation of project results** (**SFS-4; SFS-7; SFS-8; SFS-10; SFS-16; SFS-17; SFS-20; SFS-27; SFS-28; SFS-30; SFS-34; SFS-39; SFS-48; RUR-2; RUR-5; RUR-9; RUR-10; RUR-12; RUR-13; RUR-15; RUR-16**)



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# Parceria Europeia de Inovação para a Agricultura (EIP-AGRI)

EIP-AGRI



**Visa fomentar a competitividade e a sustentabilidade da agricultura e da silvicultura, de modo a que estas atividades consigam mais com menos recursos e se desenrolem em harmonia com o ambiente.**

## Co-criação e troca de conhecimento em projetos de I&I

- **Projetos multi-ator:** Os utilizadores finais da investigação e os multiplicadores têm de estar estreitamente envolvidos durante todo o projeto
- **Redes temáticas:** Enfoque nas boas práticas e nos resultados de investigação que precisam ainda de ser testados e adaptados às necessidades práticas



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# *Multi-actor approach → Elementos-chave*

- Descrição e requisitos na introdução do Programa de Trabalho do DS2**
- Demonstrar** como o projeto responde às **necessidades dos utilizadores finais**
- Envolvimento genuino** dos vários atores **ao longo de todo o projeto**, da fase de planeamento à demonstração (“inovação interativa”)
- Conhecimento prático facilmente acessível e comprehensível** para os **utilizadores finais** (através dos canais de divulgação existentes e contribuição para a EIP-AGRI)
  - Produzir um número substancial de "*practice abstracts*" (formato *EIP-AGRI*)
  - Forte recomendação de **ligação aos Grupos Operacionais** existentes no tema específico (financiados pelo PDR)

**Workshop “Interactive innovation in motion: multi-actor projects and thematic networks under Horizon 2020”**

**BioHorizon webinar “practice abstracts”to facilitate contact and share information in the EU agricultural knowledge and innovation systems (AKIS)”**



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**1. More resilient, resource efficient value chains**



**2. Environment/Climate-smart primary production**



**3. Competitive food industry**



**4. Healthy and safe foods and diets**



**5. Going global: joint actions with Africa and China**

# 1. More resilient, resource efficient value chains



| Tópico  | Tipo proj             | M€/proj | Orçamento disponível (M€) |
|---|-----------------------|---------|---------------------------|
| <b>SFS-4: New partnerships and tools to enhance European capacities for <b>in-situ</b> conservation</b>     | CSA                   | 2       | 2                         |
| <b>SFS-5: Robotics advances for precision farming</b>   | RIA<br>(single-stage) | 2-4     | 7                         |
| <b>SFS-7: Organic breeding: -Increasing the competitiveness of the organic breeding and farming sectors</b> | RIA                   | 6       | 12                        |
| <b>SFS-8: Organic inputs – contentious inputs in organic farming</b>  | RIA                   | 4       | 8                         |
| <b>SFS-10: Research and approaches for emerging diseases in plants and terrestrial livestock</b>            | RIA                   | 5       | 15                        |
| <b>SFS-13: Validation of diagnostic tools for animal and plant health</b>                                   | IA                    | 3       | 6                         |
| <b>SFS-15: Breeding livestock for resilience and efficiency</b>   | RIA                   | 7       | 7                         |
| <b>SFS-16: Bee health and sustainable pollination</b>   | RIA                   | 9       | 9                         |
| <b>SFS-17: Innovations in plant protection</b>  | RIA                   | 3       | 10                        |
| <b>SFS-18: Support to the development and implementation of FOOD 2030 initiative</b>                        | CSA                   | 4       | 4                         |



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# Fisheries & Aquaculture topics

| Tópico  | Tipo proj | M€/proj | Orçamento disponível (M€) |
|---|-----------|---------|---------------------------|
| <b>SFS-20: Towards a science-based regionalisation of the Common Fisheries Policy</b>   | RIA       | 6       | 6                         |
| <b>SFS-21: Advancing basic biological knowledge and improving management tools for commercially important fish and other seafood species</b>                  | RIA       | 5       | 5                         |
| <b>SFS-22: Smart fisheries technologies</b> for an efficient, compliant and environmentally friendly fishing sector   | IA        | 6       | 6                         |
| <b>SFS-32: Promoting and supporting the eco-intensification of aquaculture production systems:</b> inland (including fresh water), coastal zone, and offshore | RIA       | 6       | 12                        |



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### 3. Competitive food industry



⇒ O objetivo é abordar as questões críticas ao longo de todas as fases da produção de alimentos, assim como os impactos sobre o ambiente e os aspetos socioeconómicos associados.

| Tópico   | Tipo proj | M€/proj | Orçamento disponível (M€) |
|--|-----------|---------|---------------------------|
| <b>SFS-34: Innovative agri-food chains: unlocking the potential for competitiveness and sustainability</b> | RIA       | 6       | 6                         |
| <b>SFS-35: Innovative solutions for sustainable food packaging</b>   | IA        | 6       | 12                        |



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## 4. Healthy and safe foods and diets

⇒ O objetivo é **responder às necessidades e preferências dos consumidores**, minimizando o impacto associado à saúde e ao meio ambiente e assegurando a segurança alimentar

| Tópico  | Tipo proj | M€/proj | Orçamento disponível (M€) |
|---|-----------|---------|---------------------------|
| <b>SFS-39: How to tackle the childhood obesity epidemic</b> | RIA       | 10      | 20                        |
| <b>SFS-40: Sweeteners and sweetness enhancers</b>           | RIA       | 9       | 9                         |



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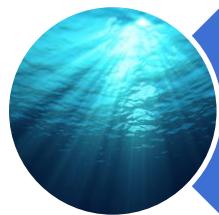
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**1. Boosting innovation for emerging Blue Growth activities**



**2. Linking healthy oceans and seas with healthy people**



**3. The Arctic Dimension**



**4. Valorising the Mediterranean Sea basin**

# *Boosting Innovation for emerging Blue Growth activities*



⇒ O objetivo é **testar, demonstrar, aumentar a escala e trazer para o mercado tecnologias marinhas e marítimas novas ou existentes, apoiando produtos inovadores e o desenvolvimento de novos serviços**



## 2 tópicos – 23 M€

|             |  |                        |
|-------------|--|------------------------|
| BG2-2016/17 | High value-added <b>specialised vessel concepts</b> enabling more efficient servicing of emerging <b>offshore activities</b><br>(IA) | 15 M€<br><b>1 proj</b> |
| BG4-2017    | Multi-use of the <b>oceans marine space</b> , offshore and near-shore: <b>enabling technologies</b><br>(IA)                          | 8 M€<br><b>1 proj</b>  |



# *Healthy oceans and seas for healthy people*



⇒ O objetivo é **explorar a interação entre os oceanos e a saúde humana**

## 3 tópicos – 21 M€

|          |   |                 |
|----------|---|-----------------|
| BG6-2017 | <b>Interaction between humans, oceans and seas:</b> a strategic approach towards healthcare and wellbeing (CSA) | 2 M€<br>1 proj  |
| BG7-2017 | <b>Blue green innovation for clean coasts and seas</b><br>(IA)  | 12 M€<br>2 proj |
| BG8-2017 | <b>Innovative sustainable solutions for improving the safety and dietary properties of seafood</b><br>(IA)      | 7 M€<br>1 proj  |



## *The Arctic Dimension*



⇒ O objetivo é aprofundar os conhecimentos e identificar **abordagens sustentáveis e inovadoras para enfrentar os desafios das alterações climáticas na região do Ártico**



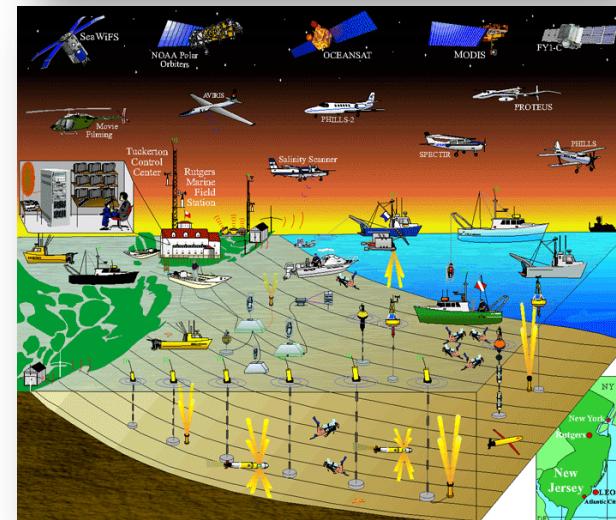
### 1 tópico – 10 M€

BG11-2017

**Climate impacts on Arctic permafrost** and its socio-economic impact, with a focus on coastal areas  
(RIA, single-stage)

10 M€

1 proj



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## *Valorising the Mediterranean Sea basin*



⇒ O objetivo é aprofundar o conhecimento sobre os ecossistemas marinhos e reforçar as capacidades de observação e monitorização.



### 1 tópico – 1.4 M€

|           |  |                  |
|-----------|--|------------------|
| BG14-2017 | <b>Monitoring and assessing fish stocks</b> , other pelagic species and habitats with an automated, non-invasive, <b>opto-acoustic system</b> (IA) | 1.4 M€<br>1 proj |
|-----------|--|------------------|



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**1. New approaches towards policies & governance**



**2. Value chains & business models**



**3. Innovation & skill development**

### 3. Innovation and skill development



⇒ O objetivo é promover atividades que irão **reforçar a capacidade das comunidades rurais para mobilizar novos conhecimentos e tecnologias para o desenvolvimento de suas atividades.**

| Tópico  | Tipo proj | M€/proj | Orçamento disponível (M€) |
|---|-----------|---------|---------------------------|
| <b>RUR-10: Thematic Networks</b> compiling knowledge ready for practice   | CSA       | 2       | 10                        |
| <b>RUR-12: Networking European farms to boost thematic knowledge exchanges and close the innovation gap</b>                               | CSA       | 7       | 7                         |
| <b>RUR-13: Building a future science and education system</b> fit to deliver to practice  | RIA       | 7       | 7                         |
| <b>RUR-15: The benefits of working with others – fostering social capital in the farming sector</b>                                       | CSA       | 3       | 3                         |
| <b>RUR-16: Optimising interactive innovation project approaches and the delivery of EU policies to speed up innovation in rural areas</b> | RIA       | 5       | 5                         |



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(...)

Scope: The activities of thematic networks include summarising, sharing and presenting, in a language easily understandable for agricultural/forestry practitioners, existing best practices and research results that are near to be put into practice, but not sufficiently known by practitioners. To this end, the networks shall involve a wide range of actors covering both science and agricultural/forestry practice on the specific themes, e.g. scientists, farmers/farmers' groups, advisory services. Also EIP Operational Groups and interactive innovation groups operating in the context of the EIP-AGRI, enterprises or supply chain actors should be involved if relevant for the chosen theme. The specific themes of the networks, which may be chosen 'bottom-up', should contribute to a more competitive and sustainable agriculture and forestry. They must focus on the most urgent needs of specific agricultural or forestry production sectors, or on important or promising cross-sectoral issues, including where primary production needs to improve its linkages to the supply chain. A comprehensive description of the state of the art on the chosen theme should explain the added value of the proposal, the relevance of the theme and how it avoids duplication with existing or completed projects and networks. The resulting easily accessible end-user material should be substantial in number and feed into the European Innovation Partnership (EIP) 'Agricultural Productivity and Sustainability' for broad dissemination to agricultural/forestry practitioners. In the exceptional event that minor testing of specific solutions would be needed, a maximum of 20% of the project budget may be used for this purpose. Proposals should fall under the concept of the 'multi-actor approach'<sup>123</sup>.

The Commission considers that proposals requesting a contribution from the EU of up to EUR 2 million per network would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude the submission and selection of proposals requesting other amounts.

(...)

Type of Action: Coordination and support action

# RUR-10-2016-2017

Estado de maturação dos temas a abordar

Ligaçāo aos Grupos Operacionais - PDR

Sāo os consórcios que decidem o tema a abordar

Atenção aos temas já tratados noutros thematic networks

Excepcional. Se é necessário conduzir testes, provavelmente a maturidade do tema não é suficiente.

Orçamento disponível 10M€  
Serão financiados 5 projetos



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# Thematic Networks: projetos aprovados em 2014-2015

| Tópico        | Acrónimo      |   |
|---------------|---------------|---|
| ISIB-2-2014   | Hennovation   | Practice-led innovation supported by science and market-driven actors in the laying hen and other livestock sectors   |
|               | AGRISPIN      | Space for Agricultural Innovation   |
|               | OK-Net Arable | Organic Knowledge Network Arable  |
|               | WINETWORK     | Network for the exchange and transfer of innovative knowledge between European wine-growing regions to increase the productivity and sustainability of the sector |
| ISIB-2-2015   | Smart-AKIS    | Smart Farming Technology: Farm Management Information Systems, Precision Agriculture and Agriculture automation and robotics                                      |
|               | HNV-Link      | Support HNV farmlands through knowledge and innovation  |
|               | AGRIFORVALOR  | Valorization of biomass side-streams from agriculture and forest  |
|               | 4D4F          | Data and sensor driven decision making on dairy farms   |
|               | EuroDairy     | Practice-based innovations in dairy farming: resource efficiency, biodiversity, animal care, socio-economic resilience  |
|               | EUFRUIT       | Fruit: cultivar development, minimise residues, storage and fruit quality, sustainability of production systems   |
| WATER-4b-2015 | FERTINNOWA    | Optimise water and nutrient use efficiency: dbase on innovative technologies and practices for fertigation of horticultural crops                                 |



## 1. Securing sustainable biomass supply



## 2. Building the bio-based markets of the future

# 1. Securing sustainable biomass supply



⇒ O objetivo é **diversificar e aumentar a produtividade, a qualidade e a produção de biomassa** a partir da floresta, de terrenos agrícolas e marginais e do mar, evitando a degradação dos ecossistemas, desbloqueando o potencial dos resíduos e subprodutos industriais.

| Tópico   | Tipo proj | M€/proj | Orçamento disponível (M€) |
|--|-----------|---------|---------------------------|
| <b>BB-2:</b> Towards a method for the <b>collection of statistical data</b> on bio-based industries and bio-based products                         | RIA       | 6       | 6                         |
| <b>BB-3:</b> Adaptive <b>tree breeding strategies</b> and tools for forest production systems resilient to climate change and natural disturbances | RIA       | 6       | 6                         |
| <b>BB-7: Plant Molecular Factory</b>   | IA        | 9       | 9,07                      |



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## 2. Building the “bio-based markets of the future”



⇒ O objetivo é **promover o envolvimento de stakeholders** para ajudar a identificar e a resolver os interesses, as aspirações e a percepção de riscos dos diferentes atores e **maximizar os benefícios de novos modelos de negócio** de origem biológica na sociedade

| Tópico   | Tipo proj | M€/proj | Orçamento disponível (M€) |
|--|-----------|---------|---------------------------|
| BB-5: Bio-based products: Mobilization and <b>mutual learning</b> action plan        | CSA       | 3       | 3                         |
| BB-8: Strategies for improving the <b>bioeconomy knowledge</b> of the general public | CSA       | 2       | 2,4                       |



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# SME Instrument

- **SME dedicated call:**

- **"Agriculture, Forestry, Agri-food and bio-based sectors"- 37.8M€**

*Stimulating the innovation potential of SMEs for sustainable and competitive agriculture, forestry, agri-food and bio-based sectors (SME-Inst07)*

- **"Blue Growth" – 12.5M€**

*Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth (SME-Inst08)*



Para PMEs de vocação altamente inovadora, de rápido crescimento e com ambições globais, com capacidade de introduzir alterações disruptivas nos mercados atuais

H2020 – SME Instrument



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# Enquadramento do programa do Desafio Societal 2

Segurança alimentar, agricultura e silvicultura sustentáveis, investigação marinha, marítima e de águas interiores e a bioeconomia

**DS2**

3,8 b€  
(2014-2020)

**WP DS2**

(2014/15; 2016/17;....)

SFS

BG

RUR

BE

## Programas bianuais:

2016: 340,5 M€

2017: 416,44 M€

**JTI BBI**

3,705 b€ [975 M€ (UE) + 2,730 b€ (BIC)]



## Programas anuais:

2016: 188,65 M€



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# Bio-based Industries Joint Undertaking (BBI – JU)

Parceria Público-Privada que apoia a I&I das indústrias de base biológica:

- **Parceiros:** Comissão Europeia & Consórcio das Bioindústrias (BIC)
- **Orçamento:** 3.7 b€ (cerca de 75% proveniente da indústria)
- **Implementação:**
  - Regras de participação do H2020 (grandes empresas sem financiamento nas RIA e CSA)
  - Com base na Agenda Estratégica de I&I desenvolvida pela indústria (SIRA)
- **Objetivos:** contribuir para uma economia de baixo carbono mais eficiente na utilização de recursos, através do **desenvolvimento de indústrias de base biológica sustentáveis e competitivas com base em biorefinarias avançadas** que se abasteçam de forma sustentável

The screenshot shows the official website for the Bio-based Industries Joint Undertaking. At the top right, there are links for 'Contact' and a search bar. Below that, a banner features the BBI logo and the text: 'BBI Joint Undertaking: a new €3.7 billion partnership between the EU and the Bio-based Industries Consortium'. The main navigation menu includes 'Home', 'About BBI', 'Participate', 'News', 'Events', and 'Multimedia'. The central part of the page has a large image of a field with hay bales under a blue sky. To the right, there is a welcome message: 'Welcome to the BIO-BASED INDUSTRIES Joint Undertaking' and a note: '€3.7 billion to convert biological residues and wastes into greener everyday products'. Below this are three smaller images with corresponding links: 'About BBI' (showing green plants), 'Participate' (showing a chemical structure), and 'Partnering Platform' (showing a modern industrial facility). At the bottom, there are sections for 'News' (with a link to '09 July 2014 EU and Industry Partners Launch €3.7 Billion Investments in the Sustainable Bio-based'), 'Twitter' (with a link to 'Resource Media Ltd @resource\_media'), and 'Events' (with a link to '02 Sept 02 September 2014 BBI Info Day at Brussels').

[\*\*BBI-JU website\*\*](#)



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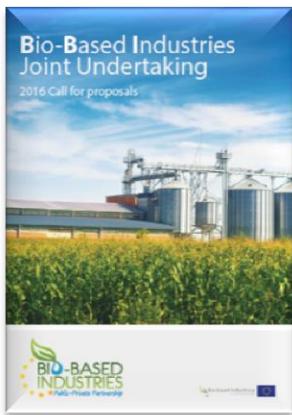
2020

# Strategic Innovation & Research Agenda

SIRA

- **Value Chain 1: From lignocellulosic feedstock to advanced biofuels, bio-based chemicals & biomaterials**  
realising the feedstock and technology base for the next generation of fuels, chemicals and materials
- **Value Chain 2: Next generation forest-based value chains**  
utilisation of the full potential of forestry biomass by improved mobilisation and realisation of new added value products and markets
- **Value Chain 3: Next generation agro-based value chains**  
realising the highest sustainability and added value by improved agricultural production, and new added value products and markets
- **Value Chain 4: New value chains from (organic) waste**  
from waste problems to economic opportunities by realising sustainable technologies to convert waste into valuable products
- **Value Chain 5: Integrated energy, pulp and chemicals biorefineries**  
realising sustainable bio-energy production, by backwards integration with biorefinery operations isolating higher added value components





RIA-DEMO-CSA

Call 2016

Single-stage call

Annual Work Plan 2016

|                                   |                  |
|-----------------------------------|------------------|
| Data de publicação                | 18-04-2016       |
| Deadline para submissão propostas | 8-09-2016        |
| Orçamento indicativo              | € 188.65 million |
| No. de topics                     | 27               |

Contribuição estimada dos membros BIC: min 110 M€

→ Competição entre tópicos em cada tipo de ação



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# BBI JU Info Days – calls 2016 → Bruxelas & Portugal

## BBI JU 2016 OPEN INFO DAY & BROKERAGE EVENT

21 April 2016

### Bruxelas, 21 Abril 2016



#### Venue:

Alcide De Gasperi, Charlemagne Building of the European Commission, Rue de la Loi 170, Brussels, Belgium

On 21 April 2016, BBI organised its third Info Day in Brussels, following the official launch of the 2016 BBI Call for proposals. Over 530 participants registered for the event in the European Commission's Charlemagne building and more than 100 participants watched via the live streaming.

The morning was dedicated to information about the BBI's role in developing Europe's bio-based economy, with key note speeches from Philippe Mengal, John Bell and Dirk Carrez. Members of the BBI programme office team shared lots of relevant information on participating in BBI JU's 2016 Call for proposals, including how to apply, tips and tricks on writing a proposal, BBI Call rules, and how to submit a proposal. The BBI GREENLIGHT project, from the 2014 Call, was presented by Peter Axegård, Vice President (Bioeconomy) for INVENNTIA, who gave their example as a successful consortium and project proposal.

In addition to plenty of informal networking during the breaks, BBI's brokerage event during the afternoon gave attendees a formal opportunity to expand their contacts through pre-scheduled private meetings. During the afternoon more than 600 face-to-face meetings were scheduled through BBI's Partnering Platform, showing a big increase from



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**Gabinete de Promoção do Programa Quadro de I&DT**

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**HORIZONTE 2020**  
7º Programa Quadro

**GPPQ**

NMP+B ICT ESPAÇO CAP RISCO APOIO PME FAST TRACK SAÚDE BIO ECONOM ENERGIA TRANSP

Auto

Horizonte 2020 Calls Eventos Notícias Apoio Oportunidades GPPQ

Eventos GPPQ Outros Eventos

**Eventos GPPQ no tema BBI - Iniciativa Tecnológica Conjunta para as Bioindústrias**

**Info Day Nacional - Iniciativa Tecnológica Conjunta sobre Bioindústria (BBI): Oportunidades de financiamento no concurso 2016**

17-05-2016 Auditório da Ordem dos Engenheiros (Lisboa)

O GPPQ irá organizar, na tarde do dia 17 de Maio (14:00 - 17:30), uma sessão de informação dedicada às oportunidades de financiamento em 2016 no âmbito da Iniciativa Tecnológica Conjunta sobre Bioindústria (BBI).

A BBI é uma parceria público-privada estabelecida entre a Comissão Europeia e o Consórcio das Bioindústrias (BIC). Tem como objetivo contribuir para uma economia de baixo carbono mais eficiente na utilização de recursos, através do desenvolvimento de indústrias de base biológica sustentáveis e competitivas com base em biorefinarias avançadas que se abasteçam de forma sustentável.

O evento contará com a presença de um project officer da BBI, Pilar Llorente, e com o programming coordenator do BIC, Nelo Emerencia. Além disso contará com um painel de debate onde serão apresentados testemunhos do envolvimento nacional nesta iniciativa (avaliador, beneficiário de projeto).

Esta sessão será em inglês e decorrerá no auditório da Ordem dos Engenheiros, em Lisboa.

A participação é gratuita mas com inscrição obrigatória nesta página.

### Lisboa, 17 Maio 2016



### FAQs for call 2016

Submission deadline Call 2016: Thu 8 September 2016 17:00 CET

### BBI JU – FAQs for Call 2016



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## Research and Innovation Actions

## Budget

**BBI 2016.R1– Valorisation of the organic content of wastewater as feedstock,**  
contributing to the renewable circular economy

**BBI 2016.R2– Develop consolidated bioprocesses for direct fermentation into bio-compounds** for chemicals and materials

**BBI 2016.R3– Improve control over microorganism growth in bio-catalysis operations** in order to reduce/avoid contamination without antibiotics

**BBI 2016.R4– Flexible biorefining technologies able to handle different feedstock,**  
leading to new value chains or enlarging existing ones by using the same processing plant

**BBI 2016.R5– Advances biomaterials for smart food packaging**

**BBI 2016.R6– Bio-based alternatives** to improve **protection of human health and the environment**

**BBI 2016.R7– Biopolymers with advanced functionalities** for high performance applications

**BBI 2016.R8– Emerging technologies for conversion of the organic content of Municipal Solid Waste** and improving waste-to-chemicals value chains

**BBI 2016.R9– Exploiting algae and other aquatic biomass** for the production of molecules for pharma, nutraceutic, food additives and cosmetic applications

**BBI 2016.R10– Industrial bio-transformation** for the production of bio-based chemicals

**BBI 2016.R11– Recover and reuse enzymes** to reduce cost of existing industrial processes

**BBI 2016.R12– Emerging technologies for separation and purification of fermentation products** to obtain high grade bio-based monomers at industrial level

**€50  
million**



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- **Participando como beneficiário nas propostas dos concursos anuais desta PPP (coordenador, parceiro)**
  
- Inscrevendo-se como avaliador de propostas
  
- **Apoiando o desenvolvimento do Programa de Trabalho anual tornando-se membro do consórcio BIC)**



## BIC Full members (October 2015)

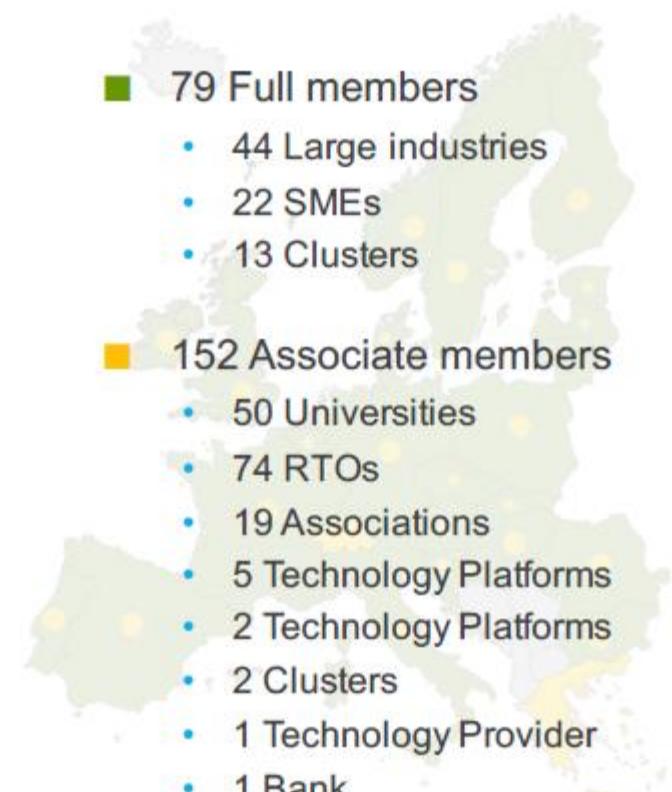
Abengoa - AlgaEnergy - Alkol Biotech - ARD - Avantium - BASF - BE Basic - Billerudkorsnäs - BioBase Europe Pilot Plant - BioBased Delta - Biochemtex - BioEconomy Cluster - BioNET Ingenieria - Biopolis - BIOPRO Baden-Württemberg - Biorefinery Pilot Facilities - BioVale - BLC3 Association - Borregaard - Buggypower - Cargill - Centre for Process Innovation - CEPSA - Clariant Group - CLEA - CLIB2021 - Corbion - Cosun - De Smet S.A. Engineers & Contractors - DONG Energy - DSM - Dupont Industrial Biosciences - Dutch Biorefinery Cluster - ENCE - Energochemica Trading - Ethanol Europe Renewables - Fertiberia - Fertinagro - FIBIC - German Federation of Private Plant Breeders - GFBiochemicals - Glanbia Ingredients - GreenWin - Holmen - Hygear - IAR - IBB Netzwerk - Inkemia - ISOIN - KLM - METabolic EXplorer - Metgen Oy - Metsä Group - Mi-plast - Monaghan Mushrooms Group - Mondi - Nordzucker - Norske Skog - Nova Pangaea Technologies - Novamont - Novozymes - Oleon Holding - Plaxica - Repsol - Roquette - Sappi - SCA - Six Fifty Kft. - Smurfit Kappa - Södra - Solvay - Stora Enso - Südzucker - The Coca Cola Company - TKI-ISPT - Total - Unilever - UPM - Versalis

### ■ 79 Full members

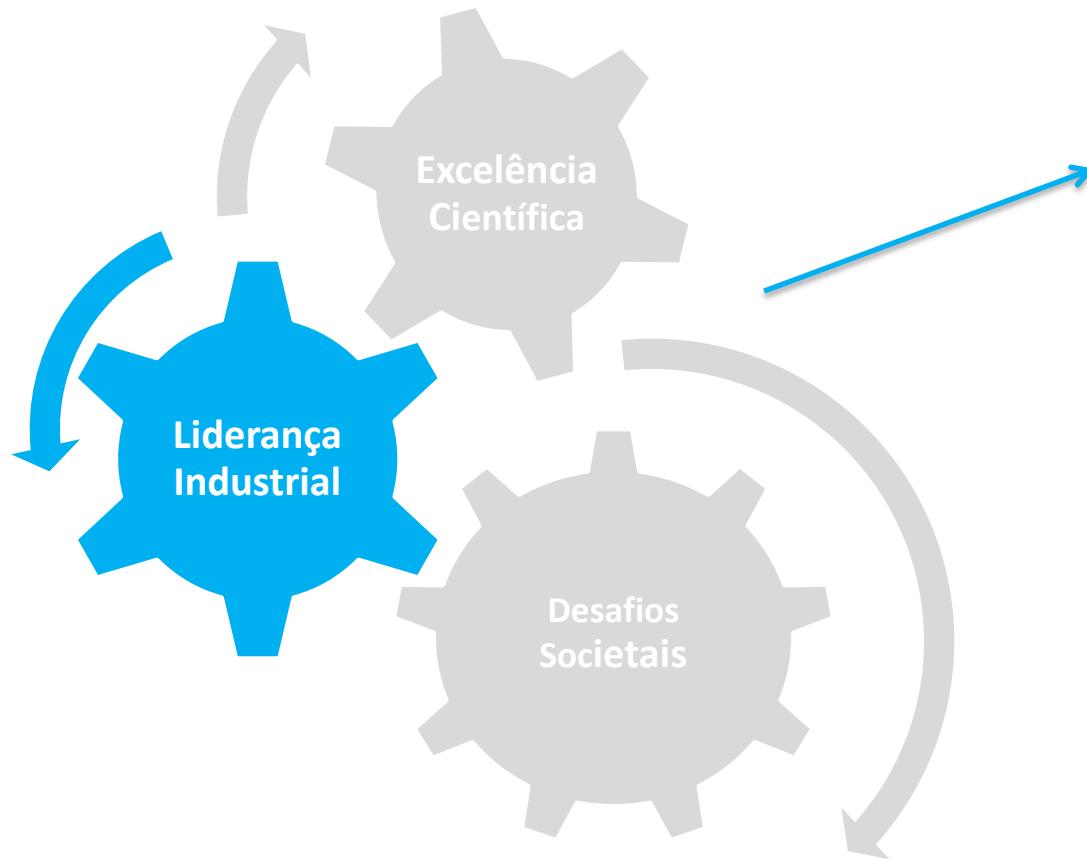
- 44 Large industries
- 22 SMEs
- 13 Clusters

### ■ 152 Associate members

- 50 Universities
- 74 RTOs
- 19 Associations
- 5 Technology Platforms
- 2 Technology Platforms
- 2 Clusters
- 1 Technology Provider
- 1 Bank



# Horizonte 2020 | Oportunidades no Pilar da Liderança Industrial



Liderança em  
Tecnologias Facilitadoras  
e Industriais (LEIT) –  
NMP, ICT,  
**Biotecnologia**,  
Espaço

Acesso a financiamentos  
de risco

Inovação em PME

**H2020 – Industrial Leadership**



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## Objetivos Específicos:

### H2020 - Biotechnology

- Desenvolver produtos e processos industriais competitivos, sustentáveis, seguros e inovadores;
- Funcionar como **motor de inovação em vários setores europeus**, como a agricultura, a silvicultura, a alimentação, a energia, os produtos químicos e a saúde, assim como a bioeconomia.

#### ⇒**Enfoque em 2016/17:**

- Ultrapassar o hiato de implementação do laboratório para o mercado
- Acelerar a inovação
- Novas plataformas tecnológicas

Promoção de sinergias com outras áreas do H2020 (DS2, DS3, BBI, NMP)



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# H2020 | Projetos KETs em 2014/2015



## RESEARCH & INNOVATION

### Key Enabling Technologies

European Commission > Research & Innovation > Key Enabling Technologies > Ongoing Research

Nanotechnologies Advanced Materials Advanced Manufacturing Public Private Partnerships Biotechnologies

## Key Enabling Technologies projects from first Horizon 2020 calls

Horizon 2020 supports the strengthening of Europe's industrial base through research and innovation activities.

Since 2014 a number of interesting projects have been launched that will develop innovative solutions to address societal challenges in the following areas :

- Energy-efficient Buildings
- Factories of the Future

### • Biotechnology

 [Download PDF \[523kb\]](#)

- Nanotechnology and advanced materials for Low-Carbon Energy Technologies and Energy Efficiency
- Nanotechnologies and advanced materials to drive competitiveness and sustainability
  - Bridging the gap between nanotechnology research and markets



Horizon 2020, the EU's EUR 80 billion Research and Innovation Programme, supports "Key Enabling Technologies (KETs)". KETs have a broad industrial base in Europe, including SMEs and start-ups and they drive innovation to solve societal challenges. Many new goods and services build on KETs and KETs also underpin more efficient and sustainable production processes in industry. They drive the economy and contribute to new job creation.

The NMBP Work Programmes (2014-2015 and 2016-2017) of Horizon 2020 cover the following KETs : *Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing*.

A number of very interesting research and innovation projects have been launched under Horizon 2020. In the following articles, you will find an overview, with links to further specific information:

### Key Enabling Technologies : Biotechnology

*Biotechnology-based industrial processes drive the competitiveness and sustainability of Europe's industry. Activities in this field aim at bridging the gap from lab to market and at creating a path for SMEs and large industries to continue investing in the commercialisation of the knowledge generated. They address the challenges of "Cutting-edge biotechnologies as future innovation driver" and "Innovative and competitive platform technologies".*

**Full list of BIOTEC-2014 projects**

**Full list of BIOTEC-2015 projects**



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# Call H2020-NMBP-2016-2017

| Tópico   | TRL | Tipo proj. | M€/proj | Orçamento disponível (M€) |
|--|-----|------------|---------|---------------------------|
| <b>BIOTEC-05-2017:</b> Microbial platforms for <b>CO2-reuse processes</b> in the low-carbon economy  | 3-5 | RIA        | 5-7     | 48                        |
| <b>BIOTEC-06-2017:</b> Optimisation of <b>biocatalysis and downstream processing</b> for the sustainable production of high value-added platform chemicals | 5-7 | IA         | 5-7     |                           |
| <b>BIOTEC-07-2017:</b> New Plant Breeding Techniques (NPBT) in <b>molecular farming</b> : Multipurpose crops for industrial bioproducts                    | 3-5 | RIA        | 5-7     |                           |
| <b>BIOTEC-08-2017:</b> Support for enhancing and demonstrating the <b>impact of KET Biotechnology projects</b>   |     | CSA        | 0,7-1   | 1                         |

**Deadlines:**

27 Out 2016 | 4 Mai 2017  
CSA: 19 Jan 2017



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# Projetos já financiados na área da Bioeconomia

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Bioeconomy

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**Publications library**

Horizon 2020 2

FP7 41

FP6 9

FP5&FP4 24

**HORIZON 2020 Projects**  
**Societal Challenge 2**  
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy  
2014

Para posicionar a sua proposta e identificar quem já concorre!!

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# Iniciativas relevantes na área da Bioeconomia

## ETPs

|                   |
|-------------------|
| Bio-based economy |
| EATIP             |
| ETPGAH            |
| FABRE TP          |
| Food for Life     |
| Forest-based      |
| Plants            |
| TP Organics       |



## EIP-AGRI



## HDHL



## FACCE



## BBI JU



Bioeconomy  
ERA-NET Actions

## PLATFORM



## EIT



## COST



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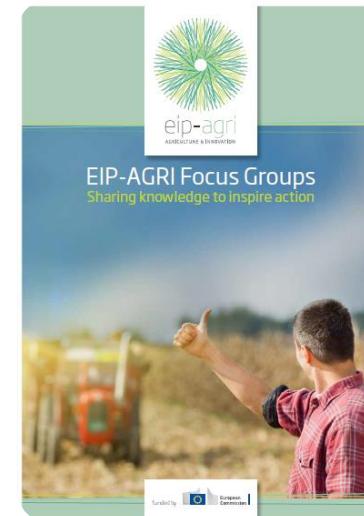
**Importante posicionar-se estrategicamente!!**

# Focus Groups da EIP-AGRI

## EIP-AGRI Focus Groups



**Grupos de discussão que se focalizam em temas específicos**, recolhendo informações sobre as melhores práticas e propondo soluções práticas e inovadoras para problemas ou oportunidades identificadas.



**PT presente em 13 dos 20 Focus Groups já constituídos 😊**



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# Plataformas para procura de parceiros



HOME    ABOUT    FUNDING OPPORTUNITIES    **PROFILES**    NEWS    SUPPORT    EVENTS

## Profiles

### General information about the archived profiles

One of BioHorizon's main objectives is to simplify access to Horizon 2020 calls under the Societal Challenge 2 and the Key Enablers and to stimulate international research cooperation. To this end, a series of three international brokerage events based in Brussels in thematic areas will be organized.

BioHorizon's brokerage events will support the trans-national networking between researchers and other stakeholders by providing projects, thus fostering access to collaboration opportunities. Interested researchers/stakeholders are requested to create an online profile used to pre-arrange meetings between potential project partners in a structured way.

Profiles from all participants in BioHorizon's brokerage events as well as all flash presentations will be archived on the respective search tool to browse the profiles for partners with a relevant expertise.

### 1st International Brokerage Event (26.11.2015)

Due to the uncertain security situation in Brussels (highest terrorism alert level from 21 - 30 November 2015), and upon the recommendation of the Belgian government, the event has been postponed. We deeply regret the great inconvenience that this has caused.

You can find the profiles of all validated registrants here: <https://www.b2match.eu/foodbrokerage2015/participants>

All flash presentations are accessible here: <https://www.b2match.eu/foodbrokerage2015/pages/flash-presentations>



Home    About BBI    Participate    Projects    News    Events    Multimedia



#### Participate

Participate  
Calls for Proposals  
Calls for proposals 2014  
Calls for proposals 2015  
Other funding of interest for BBI  
National Contact Points (NCPs)  
BBI Partnering Platform

#### BBI Partnering Login

User Name:   
Password:

#### BBI PARTNERING PLATFORM

The BBI partnering platform is an essential tool to identify and to cooperate with the European stakeholders around the annual BBI-calls for proposals. Registration is a free service provided by BBI.

#### Key Features

Key features of the partnering platform include:

- comprehensive information about BBI calls
- expert guidance through application processes
- partnering profiles of European stakeholder organisations
- direct communications with other candidates
- online networking features to build proposals



#### Registration

Organisation:   
First name:   
Family name:   
E-Mail:

### BBI Partnering Platform

### CORDIS Partners Service

### LinkedIn EIP-AGRI



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# Casos de sucesso de participação nacional



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# Entidades nacionais a participar no DS2. Bioeconomia (incl. SME Instr.)

71 participações | 9 coordenações | 14,8 M€

## Ensino Superior

COFAC - Cooperativa de Formação e Animação Cultural - CRL

FACULDADE DE MEDICINA VETERINARIA

Instituto Politécnico de Bragança

Instituto Politécnico de Coimbra (3)

Instituto Politécnico de Viana do Castelo

Instituto Superior de Agronomia (3)

Instituto de Geografia e Ordenamento do Território da Universidade de Lisboa

Instituto de Tecnologia Química e Biológica da Universidade Nova de Lisboa

Universidade de Aveiro

Universidade de Coimbra

Universidade de Trás-Os-Montes e Alto Douro

**Universidade de Évora (6)**



Universidade do Algarve

Universidade do Minho

Universidade do Porto

## Outros

ADVID - Associação para o Desenvolvimento da Viticultura Duriense

AFVS - ASSOCIAÇÃO FLORESTAL DO VALE DO SOUSA

Ciência Viva - Agência Nacional Para a Cultura Científica e Tecnológica (2)

Câmara Municipal de Almada

DIRECAO-GERAL DE POLITICA DO MAR

Fundação Eurocean (2)

Fundação para a Ciência e a Tecnologia (5)

SECRETARIA REGIONAL DO MAR, CIENCIA E TECNOLOGIA

## PME

ACESSOMATIC - Comércio Componentes Pneumáticos Hidráulicos, e Eléctricos Lda. [SME Instr]

Boereboom Invitro Portugal, Unipessoal, Lda. [SME Instr]

Doiseco Unipessoal, Lda.

EnergyPulse Systems, Lda. (2) [1 SME Instr]

UBQ II, Lda. (2) [2 SME Instr]

ALGAPLUS - Produção e Comercialização de Algas e seus Derivados, Lda.

Aveleda, S.A. [SME Instr]

BioMimetx Lda [SME Instr]

CoolFarm, Lda. [SME Instr]

MAGNOMICS SA [SME Instr]

OCEANSCAN - Marine Systems & Technology, Lda.

ORIZONVISION LDA [SME Instr]

Sagremarisco - Viveiros de Marisco, Lda. (2)

setenta e três mil e cem, lda

## Centros de investigação

Associação do Instituto Superior Técnico para a Investigação e

CENTRO PARA A VALORIZACAO DE RESIDUOS ASSOCIACAO

CIIMAR - Centro Interdisciplinar de Investigação Marinha e Ambiental (4)

Centro de Ciências do Mar do Algarve

Fundação Gaspar Frutuoso

IMAR- Instituto do Mar (4)

Instituto Nacional de Investigação Agrária e Veterinária

Instituto Português do Mar e da Atmosfera, I.P.

Instituto de Ciência e Inovação em Engenharia Mecânica e Engenharia

Instituto de Investigação Cientifica Tropical



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# H2020 | BIOTECNOLOGIA: Participação PT em 2014-2015

Propostas submetidas: 42

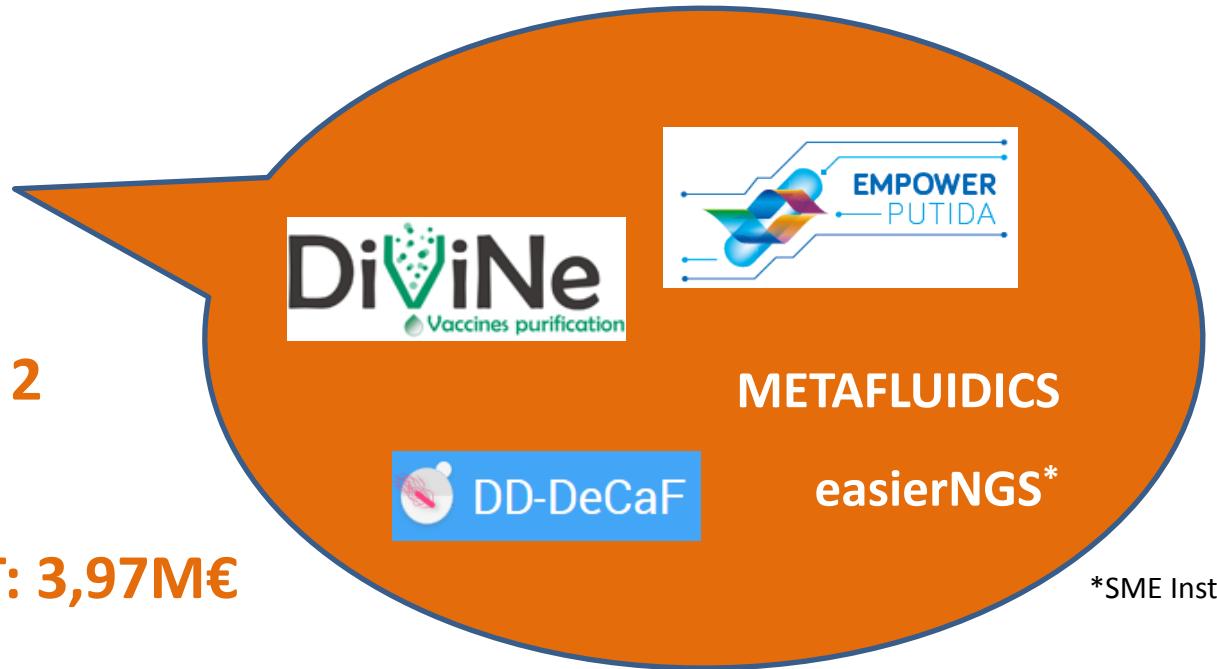
Projetos aprovados: 5

Participantes: 7

Projetos coordenados: 2

Taxa sucesso: 11,9% (EU: 7,2)

Financiamento para PT: 3,97M€



Nº médio participantes/projeto: 9-10 | Orçamento médio/projeto: 7 M€

## Instituições participantes:



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# BBI JU: Participação PT em 2014-2015



*Call  
2014*

**PROcesses for Value added fibres by Innovative Deep Eutectic Solvents**

Funding scheme: RIA

**VC2: forest-based**

Duration: 2015-2018

BBI JU contribution:  
1.079.551 €

Coordinator: PPP ISPT (NL)

grupo Portucel Soporcel

2014-2015

**4 Projetos**

**5 Participantes**

**0,8 M€**

*Call  
2015*

**+ 3 projetos em processo de preparação do GA**

{  
BIOCOM (Globaz, SA)  
FUNGUSCHAIN (Biotrend ,SA)  
LIBBIO (ISA-UL & Lusosem, SA)

**VC3: agro-based**

ay 2016



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# Desafio Societal 2

## Processo de preparação do WP 2018-2020

### Work Programme 2018-2020 preparation



**Consulta Pública (até 28 Agosto!!!)**



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Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy - Work Programme 2018-2020 preparation

Article Newsroom

Preparation of the work programme 2018-2020 for Societal Challenge 2 has started and will involve various stakeholder engagement activities and consultations.

Preparations for the last work programme started at the end of 2015. They will take into account the political priorities of the European Union and refer to several foresight exercises.

Consultation of stakeholders will be an integral part of this programming process which will be managed as a participatory process. In this respect Societal Challenge 2 particularly considers the following inputs:

- **Advisory group report:** The [advisory group](#) started to work on programming for 2018/2020 in February 2016. Building on the outcomes of their work for 2016/2017, they will produce a report by summer 2016.
- **Stakeholder consultation:** a consultation questionnaire will be made available on-line in the course of April 2016. Contributions are especially expected from stakeholder organisations including SC2 relevant European Technology Platforms, Joint Programming Initiatives, European Research Area Networks (ERANETS), European Innovation Partnerships, science organisations, industry organisations. Results will be assembled in a report which is expected in June 2016.
- **Strategic approach to EU agricultural research and innovation:** a large participatory process has been launched in June 2015 to elaborate a long-term strategy for EU agricultural research and innovation, the final version of which is expected in April-May 2016. This strategy will be an important input into the programming process. The content of the strategy builds on:
  - one kick-off workshop in EXPO Milan - [Event page](#) - [Final report](#)
  - two on-line targeted stakeholder consultations;
  - a large conference on 26-28 January 2016 - [Conference page](#);
- **European Innovation Partnership for Agricultural productivity and sustainability (EIP-AGRI):** agriculture and forestry stakeholders are also engaged in reflection on the research agenda via the [EIP-AGRI](#) network and activities, in particular through [focus groups](#), through various [workshops](#) and events which will be organised on themes such as '[Data revolution](#)' (June 2016), 'Food and cities' (September 2016), 'Forest value chains' (October 2016) or sustainability indicators (January 2017). In addition, EIP-AGRI keeps collecting needs for research from practice via the e-form on [EIP-AGRI interactive platform](#). Finally, outcomes of activities undertaken for [2016/2017](#) will still be taken into account.

**SRI Research workshops:** In addition to workshops organised for preparation of work programme 2016-2017, many of which provided outcomes which are also relevant for 2018-2020, specific working sessions are organised to deepen the gap analysis and formulate research questions with key selected experts. Specific themes tackled so far were:

- 'Bee health and sustainable pollination' (10.03.2016) - [Event page](#)

# Para mais informações & apoio

## GPPQ – Contactos dos Pontos de Contacto Nacionais DS2. Bioeconomia

Bio Economia  
BBI  
Biotecnologia



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<http://www.gppq.pt/h2020>



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