



Gabinete de Promoção do
Programa Quadro ID&I

Oportunidades de financiamento - Desafio Societal Bioeconomia enfoque nas temáticas agricultura e mar

Maria João Fernandes | José Antão

FC-UP

10/07/2018

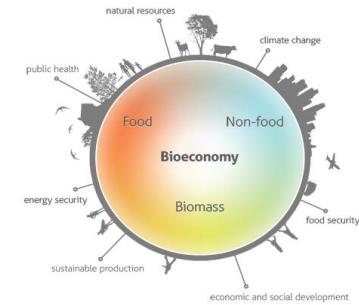


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DS2. Bioeconomia

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



H2020 – Bioeconomy

Orçamento total (2014-2020): 3851M€ (~5% H2020)

- ✓ Garantir o abastecimento adequado de alimentos seguros e de qualidade e outros produtos de base biológica
- ✓ Desenvolver sistemas de produção primária produtivos e eficientes na utilização de recursos
- ✓ Potenciar cadeias de abastecimento competitivas e hipocarbónicas

Explorar de modo sustentável e eficiente os recursos biológicos
acelerando a transição para uma bioeconomia europeia sustentável



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Fundação para a Ciéncia e a Tecnologia
MINISTÉRIO DA CIÉNCIA, TECNOLOGIA E INSSINO SUPERIOR



AGÊNCIA NACIONAL
DE INOVAÇÃO



HORIZONTE
2020

ENQUADRAMENTO DO DS2. BIOECONOMIA



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



SFS

BG

RUR



Programas bianuais

Abertura oficial das calls: Out2018

Single & two-stage calls

Programas anuais:

2018: 11Abril → 6Setembro
Single-stage calls



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WP 2018-2020 | CONTEXTO POLÍTICO & ESTRATÉGIA (1)

➤ Compromissos internacionais



SDG

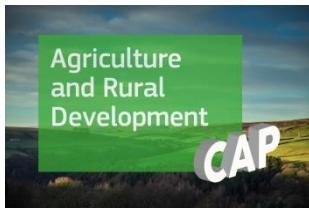


United Nations
Framework Convention on
Climate Change

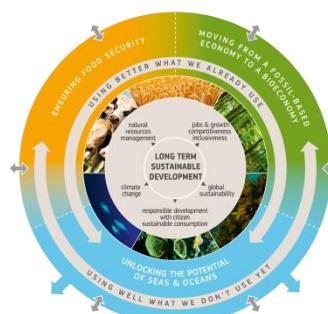


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➤ Políticas europeias



CAP & EIP-AGRI



Bioeconomy strategy



Integrated Maritime
and common fisheries
policies



Climate &
energy



Circular economy



Digital single
market



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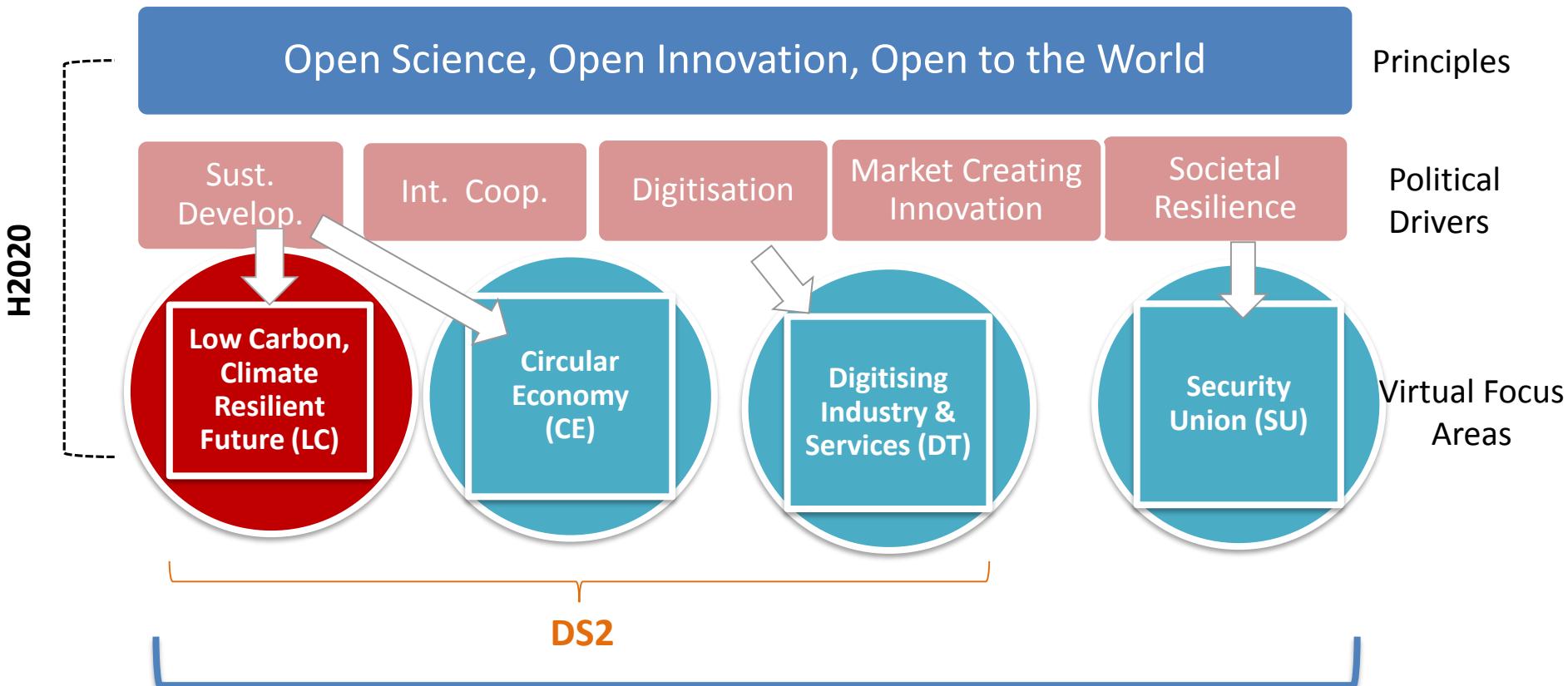
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Enfoque em 5 prioridades:

- Promover os **ecosistemas funcionais**, os **sistemas alimentares sustentáveis** e os **estilos de vida saudáveis**
- Abordar as **alterações climáticas** e a **resiliência** na terra e no mar
- Incentivar inovações na terra e no mar que levem a **novos produtos**, a **novas cadeias de valor** e a **novos mercados**
- Desenvolver **territórios inteligentes e conectados** e **cadeias de valor** em zonas rurais e costeiras
- Fazer a transição para a **bioeconomia circular**



WP 2018-2020 | FOCUS AREAS



4 FOCUS AREAS



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HORIZONTE

2020

FINANCIAMENTO (M€)	
2019	
SFS	293
BG	89
RUR	79,5

Deadlines:

1st stage & single-stage: 23/01/2019

2nd stage: 4/09/2019

Sustainable food security

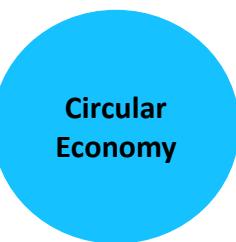
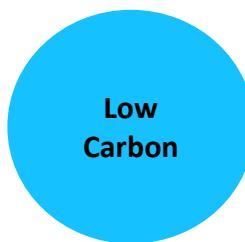
Blue Growth

Rural Renaissance



CALL SFS – SUSTAINABLE FOOD SECURITY

Principal contribuição do H2020 para I&I em **segurança alimentar e nutricional**. É dada especial atenção às interfaces entre as dimensões económicas, ambientais e sociais da produção de alimentos. Abordagem aos sistemas alimentares para lidar com as ligações entre os ecossistemas, a produção de alimentos, a cadeia alimentar e a saúde e bem-estar dos consumidores.



Prioridades (2019-20)

Biodiversity in action: across farmland and the value chain (RIA) 2019-20	Integrated health approaches and alternatives to pesticide use (RIA) 2019-20	New and emerging risks in plant health (RIA) 2019-20	Stepping up integrated pest management (RIA) 2020	Stepping up integrated pest management (RIA) 2019-20	Improving animal welfare (IA) 2019
Anti-microbials and animal production (IA) 2019	A vaccine against African Swine Fever (IA) 2019	Alternative proteins for food and feed (IA) 2019	Climate-smart and resilient farming (RIA) 2019	Forest Soils (RIA) 2020	Integrated water management at the small agriculture catchment (RIA) 2019
Innovative and citizen-driven food system approaches in cities (IA) 2019	Food Cloud demonstrators (IA) 2019	Genetic Resources and pre-breeding communities (RIA, IA) 2019-20	Agri-Aqua Labs (RIA) 2019-20	Food systems Africa (RIA) 2019	Sustainable Intensification in Africa (RIA) 2019-20
Integrated approaches to food safety controls across the food chain (RIA) 2019	High-quality organic fertilisers from biogas digestate (IA) 2019	tbc	➤ Healthy livestock gut ecosystem for sustainable production ➤ Husbandry for quality ➤ Epidemiology of contagious animal diseases ➤ Genome enabled breeding ➤ Food systems pilot action		



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HORIZONTE

2020

LC-SFS-17-2019: Alternative proteins for food and feed (IA)

- Identify and assess new/alternative protein sources
- Develop/validate production and processing approaches
- Ensure that **societal actors** work together during the whole R&I process
- Synergies in applications for both food and feed encouraged

Focus:

- Characterisation of nutritional values, functional and sensory properties of new & alternative proteins
- Deepening the understanding of protein-protein interactions for knowledge-based (re)formulations of protein blends that partly/fully substitute traditional sources
- Activities: testing, demonstrating and/or piloting in a (near to) operational environment

Possible sources:

- *For food*: plant-based proteins, microorganisms, terrestrial non-chordate phyla, algae and plankton or sources not deploying natural resources
- *For feed*: algae, insects and other terrestrial non-chordate phyla, microorganisms, plankton and other sources not competing with food production



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LC-SFS-34-2019: Food Systems Africa (RIA)

- Assess & deliver better nutrition performance of African farming systems, strengthening the agro-biodiversity (and integrated aquaculture systems) and food diversity
- Address sustainable postharvest technologies, including bio-based packaging, to reduce food waste along the post-harvest/consumerchain and plastic littering

Issues that need to be considered:

- Innovative approaches in local food systems covering technological, food safety, social & gender issues
- Empowerment of small farmers (including aquafarmers) and processors benefitting rural areas
- Food supply chains (conventional & organic) for both local urban & high value global markets
- **Commitment & participation of partners established in EU & Africa**



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CALL BG – BLUE GROWTH (2)

Promoção da economia azul através de 5 domínios: (i) efeitos das alterações climáticas nos ecossistemas marinhos e nos recursos biológicos, (ii) exploração sustentável dos ecossistemas marinhos e costeiros, (iii) investimentos e inovações na terra e no mar, (iv) territórios inteligentes e conectados, (v) cooperação internacional em I&I



Prioridades (2019-20)

Sustainable EU aquaculture 4.0:
Breeding and Feeding (IA)
2019

Multi-use of the marine space, offshore and near-shore: pilot demonstrators (IA)
2019

Sustainable solutions for bio-plastics on land and sea (IA)
2019

The Future of Seas and Oceans Flagship Initiative (IA)
2019-20

All Atlantic Ocean Research Alliance Flagship (RIA)
2019

Coordination of marine and maritime research and innovation in the Black Sea (CSA)
2019

- tbc
- Fisheries in full ecosystem context
 - Oceans Innovation Pilot
 - Black Sea Research and Innovation Action



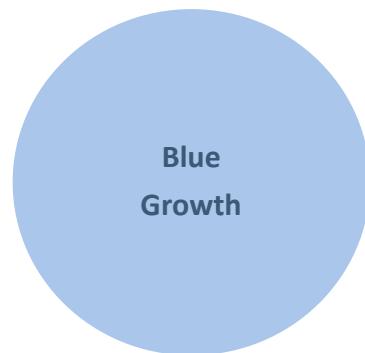
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CE-BG-06-2019: Sustainable solutions for bio-based plastics on land and sea (IA)

- Focus on **sustainability strategies & solutions for bio-based products** (innovative product design, business models for reuse and recycling strategies, including safety aspects)
- Address **technical and economic barriers to bio-based plastics recycling**; risk, impact and solutions to cross-contamination with conventional plastics waste streams or other contaminants
- Activities should **contribute to building a biodegradable plastics sustainability framework**, including pre-normative research & field tests on land and sea

Issues that need to be considered:

- **Impact on policymaking** (EU Bioeconomy Strategy, the EU Plastic Strategy, the EU Circular Economy action plan, the EU Marine Strategy Framework Directive)
- Prevention/reduction **marine pollution**
- Solutions & strategies for **circular innovation** on plastics VC



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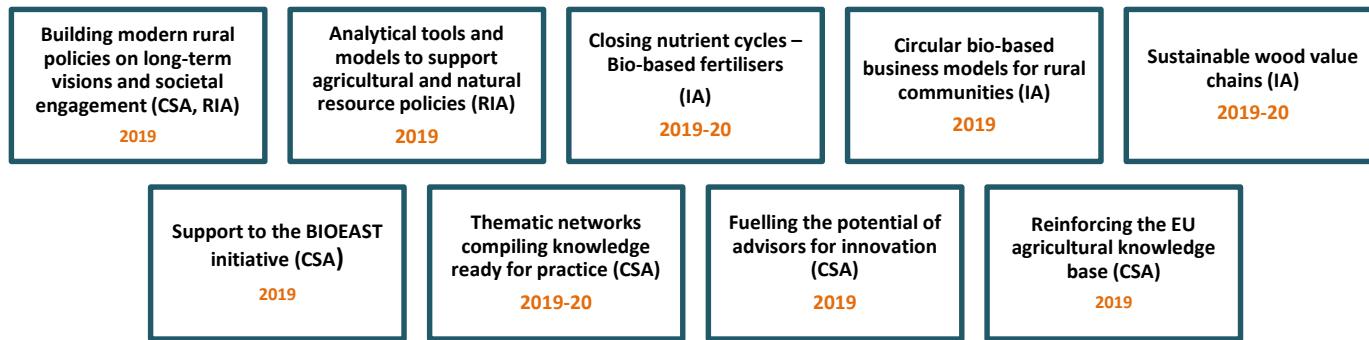
HORIZONTE

2020

CALL RUR – RURAL RENAISSANCE (2)

Visa aumentar o **potencial natural, social, cultural e económico** das zonas rurais e promover a coerência das políticas. Tem como objetivo impulsionar o desenvolvimento económico, os serviços dos ecossistemas e a inovação empresarial.

Prioridades
(2018-2020)



- tbc
- Connecting consumers and producers in innovative supply chains
 - Innovative agri-food chains
 - Reducing food losses along the value chain
 - Networking European farms to boost thematic knowledge exchanges and close the innovation gap
 - Digital service platforms for rural economies (LEIT-ICT)



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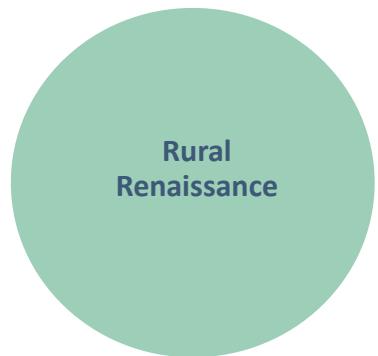
LC-RUR-11-2019-2020: Sustainable wood value chains

2019: Building with wood (IA)

- Develop & test new technologies & environmental friendly solutions for the use of wood-based materials in the (re)construction and/or retrofitting of buildings
- Explore options for building with wood in combination with composite/hybrid materials
- Activities: testing, demonstrating and/or piloting in a (near to) operational environment

Issues that need to be considered:

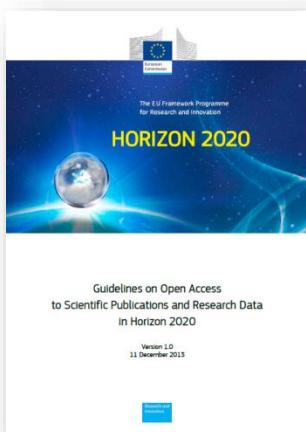
- Linkages with other nature-based solutions
- Use of ICT
- LCA and carbon accounting
- ‘Environmental documentation’ (i.e. product definitions, standards and construction codes)
- Performance standards, public policies and regulations
- Consumer perception & engagement/co-creation



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QUESTÕES TRANSVERSAIS NO H2020



Open Access



Synergies ESIF-H2020



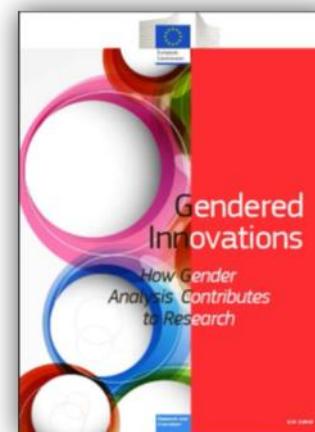
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A screenshot of the "RESEARCH & INNOVATION Participant Portal H2020 Online Manual". The header includes the European Commission logo and the text "RESEARCH & INNOVATION" and "Participant Portal H2020 Online Manual". The left sidebar has sections for "H2020 Online Manual" (My Area - User account & roles, Grants) and "Cross-cutting issues" (International cooperation, Social Sciences & Humanities, Open access & Data management, Climate action & Sustainable development, Ethics, Gender, SMEs, ERA-NETs, Links to regional policy, Intellectual property, Innovation procurement). The main content area is titled "Cross-cutting issues" and lists items such as International cooperation, Social Sciences & Humanities, Open access & Data management, Climate action & Sustainable development, Ethics, Gender, SMEs, ERA-NETs, Links to regional policy, Intellectual property, and Innovation procurement.

International Cooperation



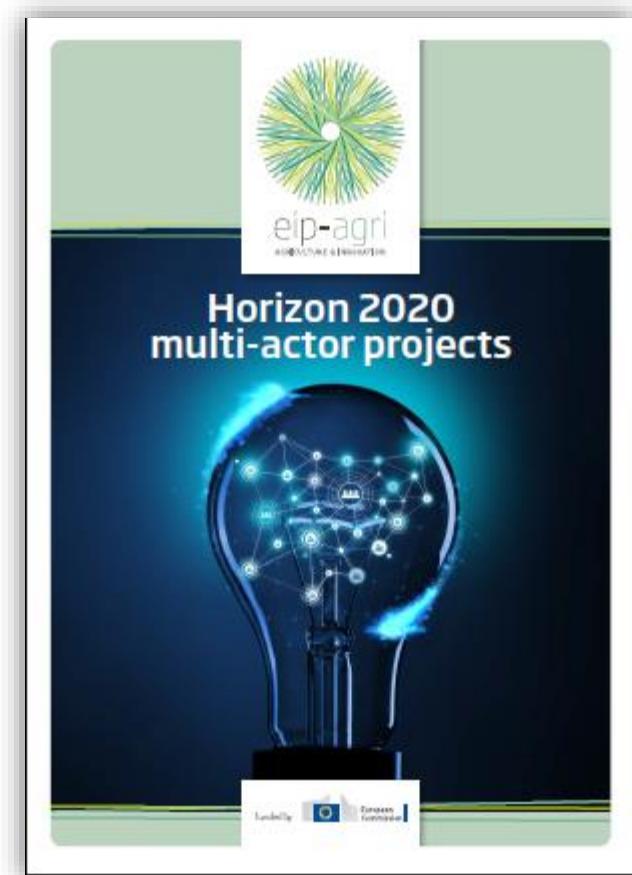
Gendered Innovations



SSH in H2020

MULTI-ACTOR APPROACH NOS PROJETOS H2020

- As propostas do MAA **têm de demonstrar** que visam as reais necessidades dos agricultores, silvicultores, empresas agroalimentares ou outros ('utilizadores finais')
- É necessário que quem for utilizar as soluções esteja **envolvido desde o início** na definição das questões e na implementação das atividades
- A 'fertilização cruzada' de ideias e conhecimentos complementares deverá levar a **soluções inovadoras associadas à procura e facilmente aplicáveis no campo**
- As recomendações práticas resultantes devem ser apresentadas de uma forma facilmente compreensível e acessível ('EIP practice abstracts')
- **No WP 2019 há 17 tópicos que apelam à abordagem multi-ator**



[H2020 multi-actor projects](#)



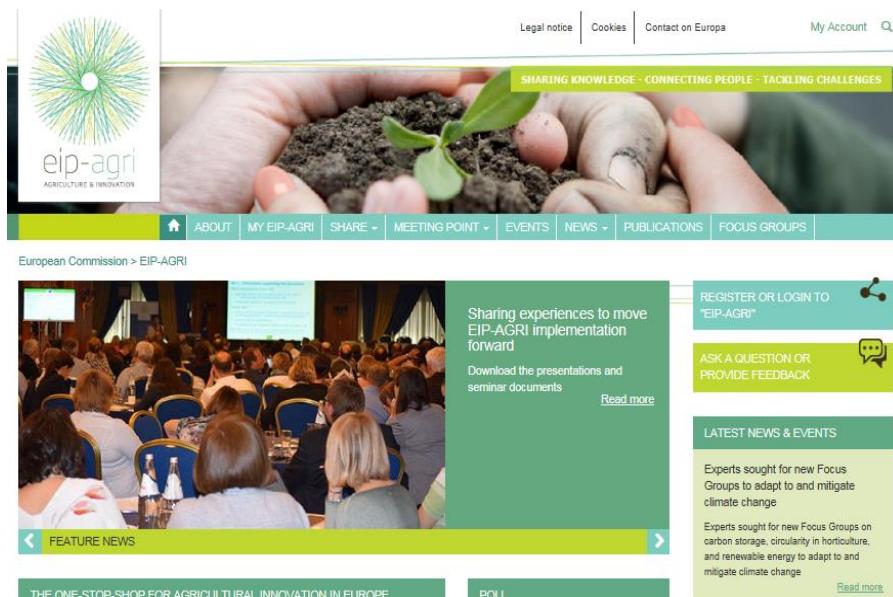
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Parceria Europeia de Inovação para a Agricultura (EIP-AGRI)

EIP-AGRI

Focaliza-se na **formação de parcerias, ligando os atores de inovação no setor agrícola, agroalimentar e florestal** (agricultores, cientistas, consultores, ONG, empresas e outros agentes) através de diferentes tipos de atividades, como os **Grupos Operacionais** e os

Grupos Focais



The screenshot shows the official website of the European Institute for Agricultural Research and Innovation (EIP-AGRI). The top navigation bar includes links for Legal notice, Cookies, Contact on Europa, My Account, and a search icon. Below the header is a large banner with the text "SHARING KNOWLEDGE - CONNECTING PEOPLE - TACKLING CHALLENGES". The main content area features a photograph of hands holding a young plant. The navigation menu below the banner includes links for Home, ABOUT, MY EIP-AGRI, SHARE, MEETING POINT, EVENTS, NEWS, PUBLICATIONS, and FOCUS GROUPS. A sidebar on the right provides links for REGISTER OR LOGIN TO "EIP-AGRI", ASK A QUESTION OR PROVIDE FEEDBACK, and LATEST NEWS & EVENTS. The news section highlights a call for experts for new Focus Groups to adapt to and mitigate climate change.

- *Newsletter*
- *Publications*
- *Events (workshops & Seminars)*
- *Interactive Innovation Platform*
- *Support for partnering*
- *Helpdesk*

[Call para 2 novos Focus Groups](#) (até 10/09/2018)

- Non-chemical weed management in arable cropping systems
- Pests and diseases of the olive tree



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FCT
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TARGETED INTERNATIONAL COOPERATION | AFRICA



SUPPORT TO EU-AFRICA PARTNERSHIP ON FOOD AND NUTRITION SECURITY

EU-Africa High Level Policy Dialogue
on
Science, Technology and Innovation
Addis Ababa, 4-5 April 2016

Roadmap towards a jointly funded
EU-Africa Research & Innovation Partnership
on
Food and Nutrition Security and Sustainable Agriculture

https://ec.europa.eu/research/iscp/pdf/policy/eu-africa_roadmap_2016.pdf

EUROPEAN COMMISSION

Brussels, 21.9.2016
SWD(2016) 319 final

<http://ec.europa.eu/transparency/regdoc/rep/10102/2016/EN/SWD-2016-319-F1-EN-MAIN.PDF>

COMMISSION STAFF WORKING DOCUMENT

European Research and Innovation for Food and Nutrition Security

EUROPEAN COMMISSION
HIGH REPRESENTATIVE OF THE UNION FOR FOREIGN AFFAIRS AND SECURITY POLICY

Brussels, 4.5.2017
JOIN(2017) 17 final

<http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52017JC0017&from=en>

JOINT COMMUNICATION TO THE EUROPEAN PARLIAMENT AND THE COUNCIL
for a renewed impetus of the Africa-EU Partnership

{SWD(2017) 150 final}
{SWD(2017) 151 final}

[Workshop 'EU-Africa R&I Partnership on Food and Nutrition Security and Sustainable Agriculture – FNSSA'](#) (Bruxelas, 23.01.2017)

[LC-SFS-34-2019: Food Systems Africa](#) (RIA)

[LC-SFS-35-2019: Sustainable intensification in Africa](#) (RIA)



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TARGETED INTERNATIONAL COOPERATION | CHINA

- Em 2013 a Comissão Europeia e a Academia Chinesa de Ciências Agrárias assinaram um acordo de cooperação em I&I em alimentação, agricultura e biotecnologia (FAB) tendo em vista o estabelecimento de uma parceria estratégica de longo prazo (FAB flagship initiative).
- Com base neste acordo, uma Task Force UE-China para a FAB desenvolveu prioridades comuns específicas que promoverão uma cooperação substancial, coordenada e equilibrada no domínio da I&I entre a UE e a China. Essas prioridades estão refletidas nos tópicos **SFS-37-2019** e **CE-SFS-39-2019**.



[SFS-37-2019: Integrated approaches to food safety controls across the food chain \(RIA\)](#)

[CE-SFS-39-2019: High-quality organic fertilisers from biogás digestate \(IA\)](#)



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INFO DAY & BROKERAGE EVENT | CALLS 2019 (Junho 2018)

- Gravações dos eventos
- Destaques dos aspetos mais relevantes dos tópicos a concurso
- Ideias de projetos para parcerias

The screenshot shows the European Commission's website for the Horizon 2020 Info Day on Societal Challenge 2 calls for proposals of 2019. The page features a blue header with the European flag and navigation links for 'European Commission', 'Funding, Tenders', 'Funding opportunities', 'Funding programmes', and 'Horizon 2020'. Below the header, there's a banner for the 'Horizon 2020 Info Day on Societal Challenge 2 calls for proposals of 2019'. The main content area includes sections for 'Venue' (Brussels, Charlemagne building, Rue de la Loi 170, 1040, Brussels, Monday, 25 June 2018), 'Event summary and presentations' (mentioning the Societal Challenge 2 Info Day for 2019 calls took place on 25 June 2018 in Brussels, welcoming participants to the 2019 calls of 2019, and focusing on aspects like insight into Horizon Europe, agricultural research beyond 2020, highlights of the 2019 calls, and key facts on Societal Challenge 2 calls and guidance on successful preparation), and 'In the afternoon, dedicated parallel sessions were organized per call with presentations on the topics of the 2019 Work Programme' (mentioning Sustainable Food Security, Blue Growth, and Rural Renaissance). A sidebar on the right shows a feed of tweets from the event, with one tweet from the Director General (@IEPagueEU) welcoming Ms Andreja Kutnar, coordinator of the @InnoRenewCEO project, to the event.

INFO DAY

The screenshot shows the BioHorizon SC2 and KET-B Brokerage Event website. The header includes the event name, date (26 June 2018 / Brussels, Belgium), and navigation links for 'Home', 'Participants', 'Marketplace', 'Agenda', 'Meetings', and a user profile for 'Maria João'. The main content area features a green background with icons representing various sectors: Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research, Bioeconomy, and KET-Biotechnology. It also includes the BioHorizon logo and the hashtag #BioBrokerage. To the right, there's a sidebar with the same event details and a link to the 'BioHorizon SC2 and KET-B Brokerage Event'.

BROKERAGE EVENT

The screenshot shows the eip-agri brochure for funding opportunities under Horizon 2020 2019 calls. The cover features the eip-agri logo and the text 'Funding opportunities under Horizon 2020 2019 calls'. The brochure is described as a 'SPECIAL EDITION for the Horizon 2020 Societal Challenges 2019-2020 25 June 2018'. It includes a stylized graphic of colorful birds flying over a globe.

BROCHURA (EIP-AGRI)



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HORIZONTE

2020

Horizon 2020 pillars



Excellent science

Marie Skłodowska-Curie actions



Industrial leadership

European Innovation Council pilot

SME Instrument



Societal challenges (SC)

Fast-track to innovation

Horizon Prizes

LEIT-ICT

Call on Information and
Communication
Technologies

Innovation for SMEs
Call on Better Innovation
support to SMEs

SC2 - Food, agriculture,
forestry, bioeconomy

Call on sustainable food
security

Call on rural
renaissance

Call on Blue Growth

SC3 - Energy

Call on building a
low-carbon and climate
resilient future; secure,
clean and
efficient energy

SC5 - Climate action and
environment

Call on building a
low-carbon and climate
resilient future; climate
action

Call on greening the
economy in line with
Sustainable Development
Goals

Multi-actor approach

Thematic networks

2019 calls update

**As oportunidades de
financiamento não se
esgotam nos concursos do
DS2. Bioeconomia**



[PARTICIPANT PORTAL – Search Topics](#)



Bio-Based Industries
Joint Undertaking



Brochura

The catalyst for a sustainable
bio-based economy in Europe



Data de publicação: 11/04/2018

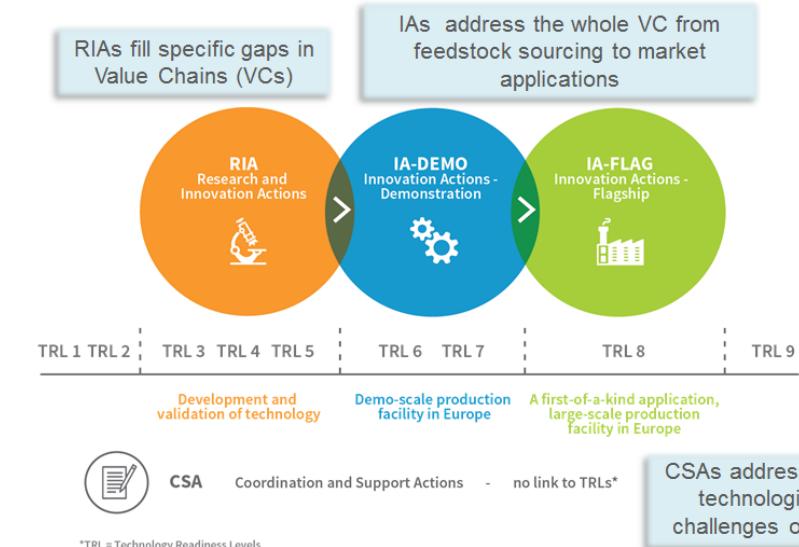
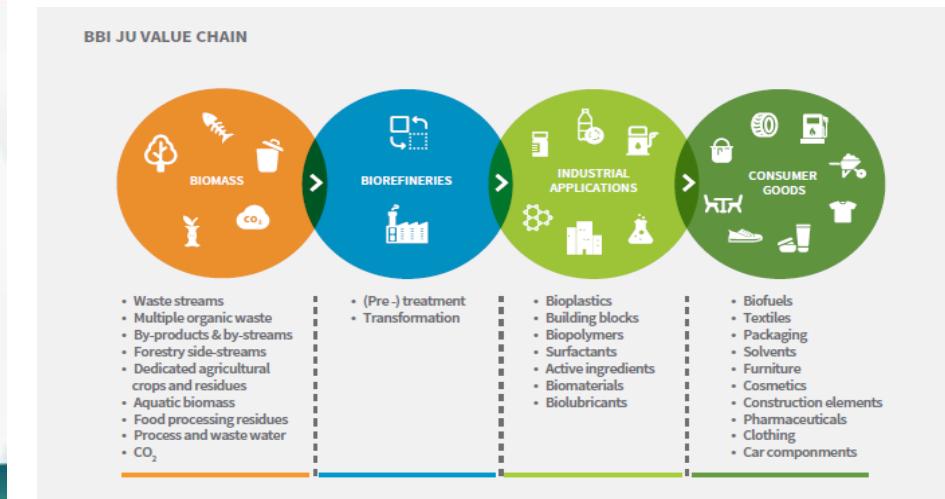
Deadline: 6/09/2018

Orçamento indicativo: 115 M€

21 tópicos (11 RIA, 3 CSA, 5 DEMO, 2 FLAG)

call single-stage

CALL H2020-BBI-JTI-2018



*TRL = Technology Readiness Levels

BBI JU

Resultados da participação nacional

DS2. Bioeconomia



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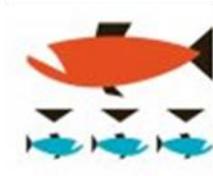
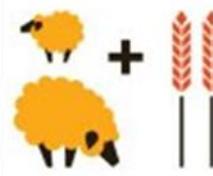
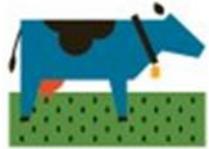


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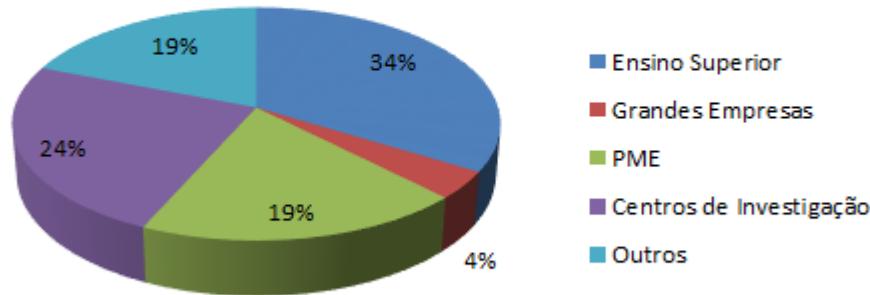
2014 – 2018*

- Propostas submetidas por PT: 368
- Projetos financiados com PT: 100 (157 participantes)
- Projetos coordenados por PT: 3
- Financiamento PT: **33 M€ → 2,4%**
- **Taxa sucesso PT: 27,17%** (UE – 21,35%)

*apenas call 2018 single-stage

PRINCIPAIS BENEFICIÁRIOS PT NO DS2 (2014 – 2018)

Participações por tipo de entidade 2014-2018



**58% setor académico
23% setor empresarial**

Ensino superior	Grandes empresas	PMEs	Centros investigação	Outros
UE (10) 	SONAE (1)	CONSULAI (4)	IMAR (4)	FCT (8) 
ISA-UL (10)	ALLMICROALGAE (1)	SPAROS (4)	CIIMAR (5)	EUROCEAN (3)
UC (4)	ALTRI (1)	ALGAPLUS (1)	CCMAR (4)	CIÊNCIA VIVA (3)
UM (2)	BENFICA (1)	2ECO (1)	INIAV (5)	ARDITI (1)
IPC (5)	EDISOFT (1)	HID (1)	IPMA (3) 	FRC (2)
UCP (2)	EUREST (1)	UNPARALLEL (2)	NOVA-ID (3)	CNA (1)

*apenas call 2018 single-stage

SFS-18-2015 - Small farms but global markets: the role of small and family farms in food and nutrition security

salsa

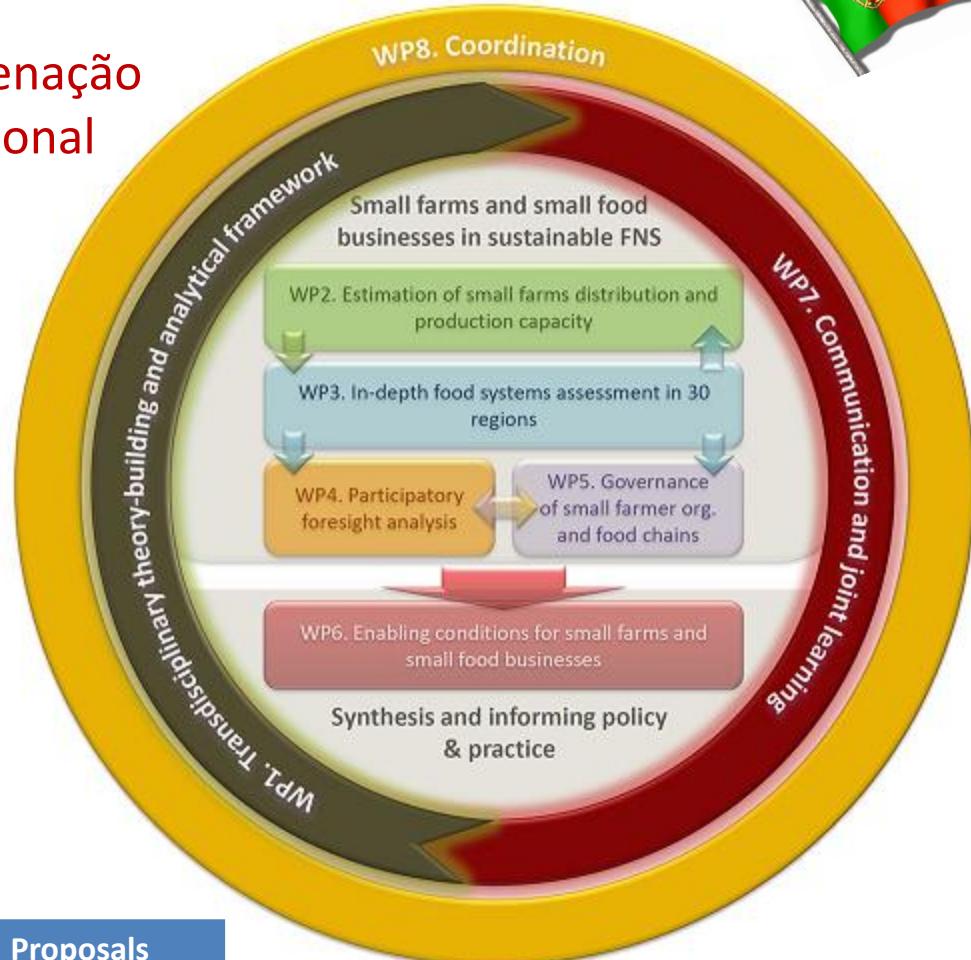
small farms

small food businesses and
sustainable food security

Coordenação
nacional



UNIVERSIDADE
DE ÉVORA



Propostas submetidas	Propostas acima threshold (1 st stage)	Propostas acima threshold (2 nd fase)	Proposals financiadas
52	28	20	1

<http://www.salsa.uevora.pt/en/>



Gabinete de Promoção do Programa Quadro ID&I

FCT

Fundação para a Ciéncia e a Tecnologia

MÍNISTÉRIO DA CIÉNCIA, TECNOLOGIA E INSSINO SUPERIOR



AGÊNCIA NACIONAL
DE INOVAÇÃO



HORIZONTE
2020



Nutritious, safe and sustainable seafood for consumers of tomorrow



National coordination

The grid contains the following logos:

- azti tecnalia
- UNIVERSITEIT GENT
- ISTITUTO SUPERIORE DI SANITA'
- Rijksinstituut voor Volksgezondheid en Milieu
Ministerie van Volksgezondheid, Welzijn en Sport
- CSIC CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS
- DTU Technical University of Denmark
- ILVO Instituut voor Landbouw-, Visserij- en Voedingsonderzoek
- GOV.UK
- IRTA RECERCA I TECNOLOGIA AGROALIMENTARIES
- iDmer SEAFOOD EXPERTISE
- UNIVERSITAT ROVIRA I VIRGILI
- AQUATT Science. Communication. Knowledge. Innovation.
- TARELAKS AS
- MRAG Limited
- EuroFIR European Food Information Resource
- RISE
- MOREFORSKING
- SPES GEIE Spread European Safety Gruppo Europeo di Interesse Economico
- AEIFORIA SUSTAINABLE AND SAFE ECOSYSTEMS
- Zachodniopomorski Uniwersytet Technologiczny w Szczecinie
- Campden BRI
- QUEEN'S UNIVERSITY BELFAST
- aquimer La vita dei prodotti aquatici
- RYBY Z INSKICH JEZIOR
- ICETA
- ciimar
- sparos I&D nutrition in aquaculture
- Xenobics
- WESTCOUNTRY MUSSELS
- ΤC PHAGE TECHNOLOGY CENTER
- οκαλωμα α.ε.
- PREDELL



Proposals submitted	Proposals above threshold	Proposals funded
10	8	1

14,0

<http://www.seafoodtomorrow.eu>



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MINISTÉRIO DA CIÉNCIA, TECNOLOGIA E INSSINO SUPERIOR



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2020

H2020-DS2. BIOECONOMIA | REPRESENTANTES NACIONAIS

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Contacte-nos para mais informações e apoio!!



Gabinete de Promoção do Programa Quadro ID&I



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