

# H2020 Framework Programme for Research & Innovation

## BUDGET

Excellent Science

<b>HORIZONTE 2020</b>		<b>74.828</b>
<b>I. Prioridad «Ciencia excelente»</b>		<b>24.232</b>
1. El Consejo Europeo de Investigación (CEI)		13.095
2. Las Tecnologías Futuras y Emergentes (FET)		2.585
3. Las acciones Marie Skłodowska-Curie		6.162
4. Las infraestructuras de investigación		2.390
<b>II. Prioridad «Liderazgo industrial»</b>		<b>16.466</b>
1. Liderazgo en tecnologías industriales y de capacitación:		13.035
1.1 Tecnologías de la información y la comunicación (TIC)		7.423
1.2 Nanotecnologías, 1.3 Materiales avanzados y 1.5 Fabricación y transformación avanzadas		3.741
1.4 Biotecnología		501
1.6 Espacio		1.403
2. Acceso a la financiación de riesgo		2.842
3. Innovación en las PYME		589
<b>III. Prioridad «Retos de la sociedad»</b>		<b>28.630</b>
1. Salud, cambio demográfico y bienestar		7.257
2. Seguridad alimentaria, agricultura y silvicultura sostenibles, investigación marina, marítima y de aguas interiores y Bioeconomía		3.708
3. Energía segura, limpia y eficiente		5.688
4. Transporte inteligente, ecológico e integrado		6.149
5. Acción por el clima, medio ambiente, eficiencia de los recursos y materias primas		2.956
6. Europa en un mundo cambiante – Sociedades inclusivas, innovadoras y reflexivas		1.258
7. Sociedades seguras – Proteger la libertad y la seguridad de Europa y de sus ciudadanos		1.613
<b>IV. Difundir la excelencia y ampliar la participación</b>		<b>816</b>
Ciencia con y para la sociedad		445
Acciones directas no nucleares del Centro Común de Investigación (JRC)		1.856
<b>VII. Instituto Europeo de Innovación y Tecnología (EIT)</b>		<b>2.383</b>

Industrial Technologies

Societal Challenges



#InvestEUresearch

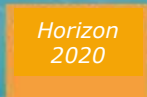


# Horizon 2020 Work Programme for Research & Innovation 2018-2020

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

## Highlights of the 2020 calls

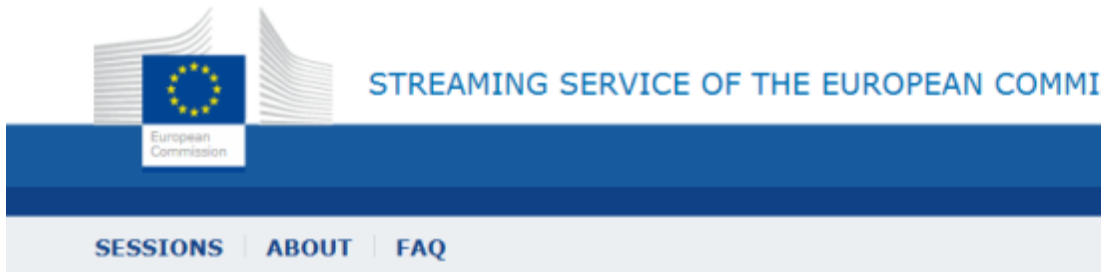
European Commission- DG RTD



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# Horizon 2020 Info Day on Societal Challenge 2 calls for proposals of 2020, 4 July 2019

<https://ec.europa.eu/programmes/horizon2020/en/news/horizon-2020-info-day-societal-challenge-2-calls-proposals-2020>



## INFO DAY HORIZON 2020 SOCIETAL CHALLENGE 2 CALLS FOR PROPOSALS

2019-07-04 | 09:00 to 16:30 | Recorded

b) **The composition of the consortium and the description of the project must reflect a balanced choice of key actors** with complementary types of knowledge: building blocks for innovation are expected to come from science as well as from practice and intermediaries

- ♦ **"all along the project"**: a clear role for the different actors in the work plan, from the participation in the **planning** of work and experiments, their execution up until the dissemination of results and the possible demonstration phase.
- ♦ **End-users (OF THE PROJECT RESULTS)** and practitioners are to be involved, not as a study-object, but in view of using their entrepreneurial skills and tacit knowledge for developing solutions and creating "co-ownership" of results.
- ♦ This **speeds up the acceptance and dissemination of new ideas/solutions** thanks to cross-fertilisation of ideas and views and to including also **multipliers, facilitators and EIP Operational Groups** from countries and regions working on similar topics.
- ♦ Webpage including the **list of 600 OG projects** (Excel file with data from Feb 2018 study): <https://ec.europa.eu/eip/agriculture/en/publications/eip-eri-operational-groups-assessment-2018> - meanwhile over 1000 OGs (contact NRNs)

Current  
Plenary

### Horizon 2020 Info Day on Societal Challenge 2 calls for proposals of 2020

#### Venue:

Brussels, Charlemagne building, Rue de la Loi 170, 1040, Bruxelles  
Thursday, 4 July, 2019

Come and learn about the Societal Challenge 2 calls for 2020 and get some practical information on how to successfully apply to the open calls for proposals.

#### Event summary and presentations

The Societal Challenge 2 Info Day for the 2020 calls took place on 4 July 2019 in Brussels. This event was opened by Maciej Gorka, Head of Department of the Research Executive Agency.

The morning plenary session focused on the following aspects:

- Insight into Horizon Europe
- Agricultural research beyond 2020
- Highlights of the 2020 calls
- Key facts on Societal Challenge 2 calls and guidance on successful preparation

In the afternoon, parallel sessions provided an overview of the 2020 Work Programme topics grouped around the following themes:

- Sustainable farming and agricultural value chains
- Blue Planet
- Food systems, bio-based innovation and the bioeconomy

The Work Programme for 2018-2020 was adopted on July 2<sup>nd</sup> 2019 and is available [here](#).

This event was organised together with the brokerage event organised on 3 July 2019 by the BIOHORIZON project. More information is available [here](#).

#### Webstreaming

Watch the event live or the recordings afterwards using the following links:

9:30- 12:45: Plenary session: [De Gasperi room](#) (select relevant section)

14:00- 16:30: Parallel sessions:

	De Gasperi room (select relevant section)	Jenkins room	Mansholt room
	Sustainable farming and agricultural value chains	Blue Planet	Food systems, bio-based innovation and the bioeconomy
Session 1	Plant and animal health	Marine plastics removal	Future food systems
Session 2	Soil management and crop production	Ocean observation	Bio-based Innovation

# WP at a glance

## The policy context

- Global commitments



**United Nations**  
Framework Convention on  
Climate Change

- European policies



**CAP & EIP-AGRI**



**Climate & energy**



**Bioeconomy strategy**



**Circular economy**



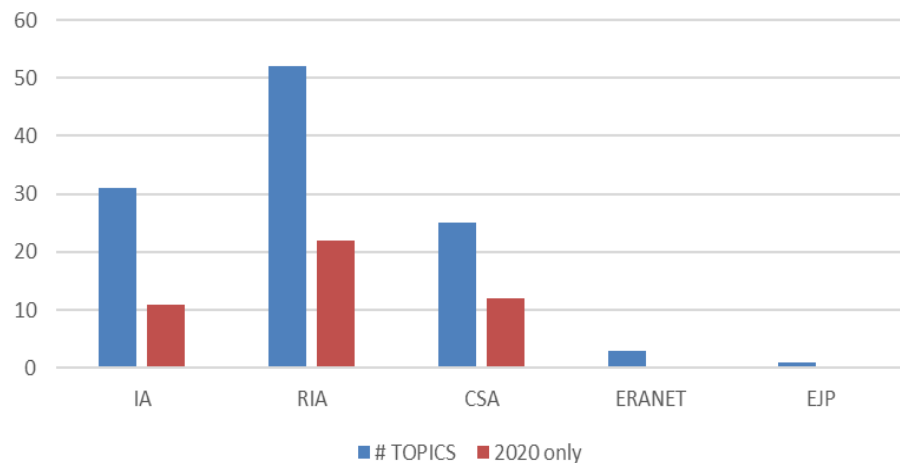
**Integrated Maritime and common fisheries policies**



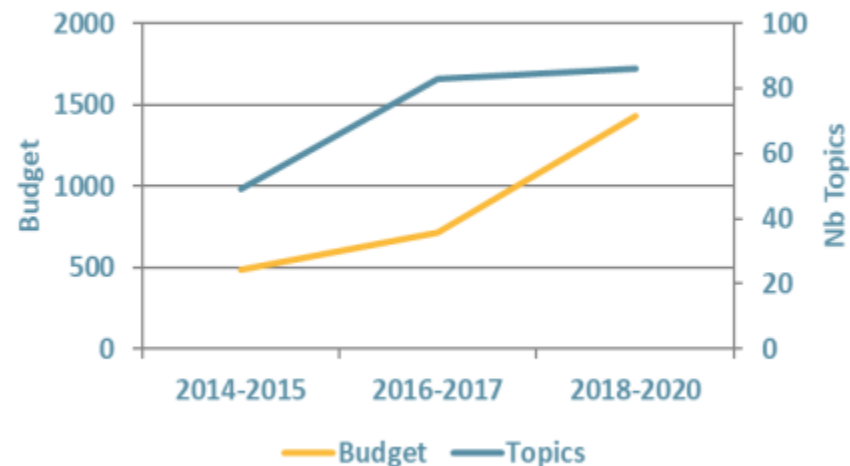
**Digital single market**

# WP at a glance

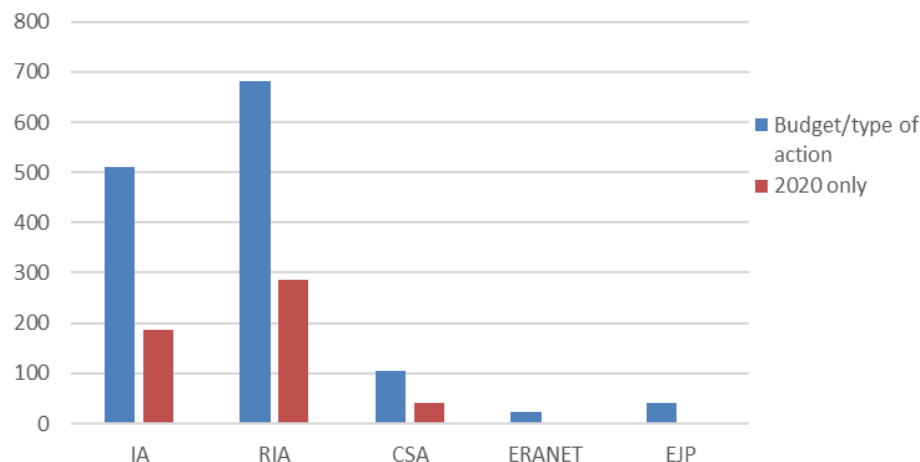
## # TOPICS 2018-2020



## Evolution of SC2 calls budget and topic counts



## Budget/type of action



**Close to market actions with investment in new knowledge**

**Same topics, more budget  
→ more projects per topic**

**Reinforced support to policy  
(RIAs, IAs, CSAs, procurement)**

## Open innovation, open science, open to the world

- **Open innovation**

- **€500+ mio for multi-actor projects** (interactive innovation linked to EIP-AGRI)



- **Open science**

- Research data sharing **by default**
- **Open science clouds**: Food cloud demonstrators (10M€) & Blue cloud services (6M€)



- **Open to the world**

- **119M€** on **EU-AFRICA** partnership on Food and Nutrition Security and Sustainable Agriculture (11 projects): food systems, sustainable intensification and income diversification
- **28M€** on **EU-CHINA** (5 projects): food safety, soil management and bio-based fertilisers
- **64M€** on "**All Atlantic Ocean Research Alliance**" (8 projects): coordination, marine ecosystems and new value chains
- **PRIMA**





## Funding for third countries

Applicants automatically eligible for funding:

- EU Member States and the Overseas Countries and Territories linked to Member States
- Countries associated to Horizon 2020
- Countries identified in WP General Annex A (developing countries)
- International European interest organisations

In addition, eligible for funding:

- ✓ When explicitly foreseen in the call
- ✓ when provided for under a bilateral scientific and technological agreement or any other arrangement
- ✓ when Commission deems participation essential for carrying out the action

**Details:**

[http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference\\_docs.html#h2020-work-programmes-2018-20-annexes](http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h2020-work-programmes-2018-20-annexes) (after WP adoption)

# Societal Challenge 2 – 4 Calls in 2020

## 522 million € grant

Adoption of WP2020 end of June 2019 & Prepublication 3rd July

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-food\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-food_en.pdf)

**Opening: 15 October 2019**

Deadlines: 1st stage: 22 January 2020; 2nd Stage: 8 September 2020



**Call  
Sustainable  
Food Security  
173M€**

**Call  
Rural  
Reinassance  
88M€**



**Call  
Blue Growth  
52M€**

**Call  
Food & Natural  
Resources  
208,7M€**





# Societal challenge 2 calls

## Sustainable food security topics (2020)

### From functional ecosystems to healthy food

- Biodiversity in action
- Livestock microbiome
- Integrated health approaches & alternatives to pesticides
- New and emerging risks to plant health
- IPM
- Epidemiology of contagious animal diseases
- Genome and epigenome enabled breeding in terrestrial livestock

7 topics – 95 M€



### Environment/ Climate-smart Food production and consumption

- Emerging challenges for soil management
- Forest soils

2 topics – 24 M€



### Building capacities

- Genetic resources & pre-breeding communities
- Agri-Aqua labs

2 topics – 19 M€

### Targeted international cooperation

- **EU-Africa**
  - ✓ Sustainable intensification
  - ✓ Diversifying revenue in rural Africa through bio-based solutions
- **EU-China**
  - ✓ Healthy soils for healthy food production

3 topics – 35 M€



Type of actions :  
RIA, IA, CSA

# Societal challenge 2 calls

## Blue Growth topics (2020):



Type of actions : RIA, IA (lump-sum)

+ 2 Food and Natural Resources(FNR) topics (2020)

# Societal challenge 2 calls

## Rural renaissance topics (2020)

### Dynamics & policies

- Agricultural markets and international trade

1 topic – 4 M€

### Food & non-food Value chains

- Connecting consumers and producers
- Innovative agri-food value chains: boosting sustainability-oriented competitiveness
- Reducing food losses and waste
- Closing nutrient cycles (2 scopes: IA + RIA)
- Sustainable wood value chains

5 topics – 74 M€

### Taking advantage of the digital revolution

2018-2019

- + UNDER LEIT-ICT call
- DT-ICT-09-2020: Digital service platforms for rural economies 30 M€ (incl. 15M€ SC2)

1 ICT topic – 15 M€

### Innovation and human capital

- Thematic networks compiling knowledge ready for practice


1 topic – 10 M€

Type of actions :  
RIA, IA, CSA



# Societal challenge 2 calls

## Food and Natural Resources



- Testing out new approaches – e.g., Food 2030, Living labs



- Preparation of future initiatives and Missions - e.g., agro-ecology/soil



- Even stronger focus on impact – sharper impact statements



- Support to policy - EU Bioeconomy Strategy, new CAP...



18 topics – 208 M€  
Agri, food, marine,  
bio-based covered

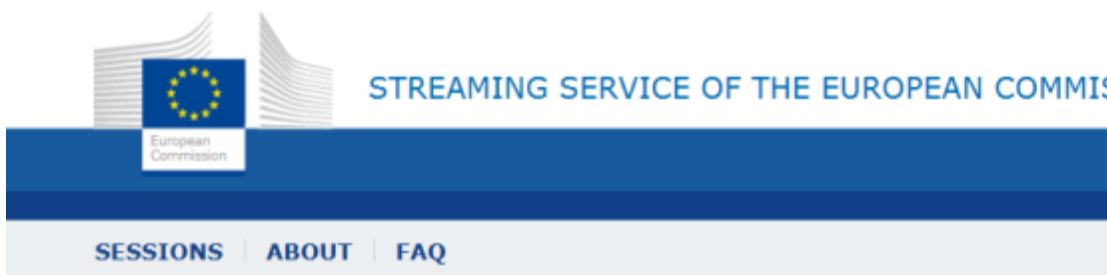
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# Call deadlines

Opening	Submission procedure	Stage	Deadline	Info to applicants	Grant Agreements
15 Oct. 2019	<b>single stage</b>	Single stage	<b>22 Jan. 2020</b>	June 2020	Oct. 2020
	<b>2-stages</b>	1 <sup>st</sup> stage	<b>22 Jan. 2020</b>	May 2020	-
		2 <sup>nd</sup> stage	<b>08 Sept. 2020</b>	Nov. 2020	May 2021

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# SFS-13-2020: Genome and epigenome enabled breeding in terrestrial livestock (RIA)

## • Cross cutting aspects

- ✓ **MAA** (breeders, biodiversity conservation and other relevant professionals from animal production, the food chain and decision-makers, as appropriate).

## • Policy

### ✓ **GM/New Techniques in Agricultural Biotechnology :**

Directive 2001/18/EC of the European Parliament and of the Council of 12 March 2001 on the deliberate release into the environment of genetically modified organisms

EUCJ ruling: <https://curia.europa.eu/jcms/upload/docs/application/pdf/2018-07/cp180111en.pdf>

Scientific Advice Mechanism (SAM):

[https://ec.europa.eu/research/sam/pdf/topics/explanatory\\_note\\_new\\_techniques\\_agricultural\\_biotechnology.pdf](https://ec.europa.eu/research/sam/pdf/topics/explanatory_note_new_techniques_agricultural_biotechnology.pdf)

SAM statement:

[https://ec.europa.eu/info/sites/info/files/2018\\_11\\_gcsa\\_statement\\_gene\\_editing\\_2.pdf](https://ec.europa.eu/info/sites/info/files/2018_11_gcsa_statement_gene_editing_2.pdf)

## Some useful resources



### GenRes Bridge

<http://www.genresbridge.eu>

European Regional Focal Point for Animal Genetic Resources



[www.animalgeneticresources.net](http://www.animalgeneticresources.net)



<https://www.smarterproject.eu/>



[faang-europe.org/](http://faang-europe.org/)



<https://www.faang.org/>

### BovReg:

<https://cordis.europa.eu/project/rcn/223200/factsheet/en>

### Gene-Switch

<https://cordis.europa.eu/project/rcn/223221/factsheet/en>

### FABRE ETP

<http://www.fabretp.eu>



[www.gpluse.eu/](http://www.gpluse.eu/)

### Feed-a-Gene




[www.feed-a-gene.eu/](http://www.feed-a-gene.eu/)



European Commission

# BioHorizon SC2 and KET-B Brokerage Event, 3 July 2019

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



BioHorizon #BioBrokerage

3 July 2019  
Brussels, Belgium

**BioHorizon SC2 and KET-B  
Brokerage Event**

<https://foodbrokerage2019.b2match.io/home>

<https://foodbrokerage2019.b2match.io/page-2131>



# Flash Presentations

sessions were webstreamed and recorded. The slides of all flash presentations, even those not chosen due to a lack of available places, are now available to download below. The list of speakers chosen from the very large number of submissions received is:

## Session 1: Sustainable Food Security

Session host: David Butler Manning, Projektträger Jülich (DE) and BioHorizon

Webstream of the session on Sustainable Food Security

1. Claire Garros, CIRAD (FR): *Vector-borne diseases in Africa*
2. Jiří Sedlák, Výzkumný a šlechtitelský ústav ovocnářský Holovousy s.r.o. (CZ): *Diversity of fruit genetic resources*
3. Nicolas Munier-Jolain, INRA (FR): *Toward a EU-wide integrated pest management farm demo network*
4. Jan Piecko, Skierniewice Research Institute of Horticulture (PL): *Centre of horticulture sciences in the middle of Eastern Europe*
5. Grzegorz Siebielec, Institute of Soil Science and Plant Cultivation (PL): *Soil, closing nutrient cycles, urban agriculture - linking with partners in SFS, RUR, FNR*
6. Nikos Kalatzis, Neupublic S.A. (GR): *Solutions for smart farming and digital agriculture*
7. Claus Böttcher Jørgensen, University of Copenhagen (DK): *Integration of genome editing in pig breeding*
8. Jana Mikiskova, Agrovyzkum Rapotin s.r.o. (CZ): *Biodiversity, soil, closing nutrient cycles - partnering in SC2*
9. Hélène Lacroix, CONDORCET (FR): *Dynamics of forest soil carbon over Europe scale gradients*
10. Ferran Martí Ferrer, AIMPLAS (ES): *Impact of microplastics in soil and removal plastic in marine litter*
11. Marine Guerret, CATE (FR): *Vegetable diversification*

## Session 2: Rural Renaissance + Blue Growth

Session host: Maria João Fernandes, Fundação para a Ciência e a Tecnologia (PT) and



Business Support on Your Doorstep

### MEETINGS

Participants	255
Meetings	724

### PARTICIPANTS

Austria	3
Belgium	16
Bulgaria	1
Croatia	1
Czech Republic	20
Denmark	5
Estonia	3
Finland	7
France	11
Germany	9
Greece	
Hungary	
Iceland	



@CDTIoficial

# Partner search tool – Participant portal

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/partner-search>

The screenshot shows the 'Funding & tender opportunities' portal. The top navigation bar includes 'SEARCH FUNDING & TENDERS', 'HOW TO PARTICIPATE' (highlighted), 'PROJECTS & RESULTS', 'WORK AS AN EXPERT', and 'SUPPORT'. Below this is a blue banner for the 'Horizon 2020 Framework Programme (H2020)'. The main content area is titled 'Partner Search' and features several search filters: 'Keyword' (with a text input field), 'Topic' (with a text input field), 'Call' (with a dropdown menu), 'Programme' (with a dropdown menu set to 'Horizon 2020 Framework Programme (H2020)'), 'Organisation name' (with a text input field), 'Organisation type' (with a dropdown menu), 'Country' (with a dropdown menu), and 'City' (with a text input field). A 'Results: 0' indicator is visible, and a message states 'No records found'.

The screenshot shows the 'Partner Search list' for the topic 'Pilot action for the removal of marine plastics and litter (CE-FNR-09-2020)'. The search results are displayed in a list format. The first result is 'ISTANBUL AVRUPA ARASTIRMALARI DERNEGI', followed by 'HAPTIC R&D CONSULTING SRL', 'INDIGO MED SMPC', 'RenaSci: Oostende Recycling nv', and 'Rafael Guerra-Arce'. The list is filtered to show 25 results. The bottom of the page features the logo of the 'MINISTERIO DE CIENCIA, INNOVACION Y UNIVERSIDADES' and the 'CDTI Centro para el Desarrollo Tecnológico Industrial' logo, along with the Twitter handle '@CDTIoficial'.

# Thank you!

**#InvestEUresearch**  
**#HorizonEU**

[https://ec.europa.eu/info/designing-next-research-and-innovation-framework-programme/what-shapes-next-framework-programme\\_en?pk\\_campaign=rtd\\_news](https://ec.europa.eu/info/designing-next-research-and-innovation-framework-programme/what-shapes-next-framework-programme_en?pk_campaign=rtd_news)

**#H2020SC2**

[www.ec.europa.eu/research/bioeconomy](http://www.ec.europa.eu/research/bioeconomy)

[www.ec.europa.eu/agriculture/research-innovation\\_en](http://www.ec.europa.eu/agriculture/research-innovation_en)

Participant Portal

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