



European  
Commission

Horizon 2020  
European Union funding  
for Research & Innovation

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

**These calls for 2020 are preliminary and subject to change until the final work programme is published in July 2019. Please check the final published work programme before starting submission.**

The work programme for 2018-2020 responds to some of the key challenges our planet is facing for the years to come: adapting to and mitigating climate change; ensuring food security; safeguarding the natural resource base, promoting alternatives to fossil-based economies and sustainably using marine resources while protecting the oceans. Agriculture and food systems, forestry, the marine and the bio-based sectors are at the very heart of the challenges to be addressed.

The work programme is structured around four calls: "Sustainable Food Security", "Blue Growth", "Rural Renaissance", "Food and Natural Resources" and a Thematic Investment Platform on Circular Bioeconomy. Overall, the work programme contributes strongly to the focus areas "Low Carbon", "Circular Economy" and "Digitisation".

The work programme focuses on five priorities:

- Addressing climate change and resilience on land and sea
- Making the transition towards a circular bioeconomy
- Fostering functional ecosystems, sustainable food systems, healthy lifestyles
- Boosting major innovations on land and sea – new products, value chains and markets
- Developing smart, connected territories and value chains in rural and coastal areas.

### 1) Call – Sustainable Food Security (H2020-SFS-2018-2020)

Topic	Budget (EUR Mil)	Stages	Action	Opening	Deadline(s)
<b>From functional ecosystems to healthy food p.16</b>					
SFS-01-2018-2019-2020: Biodiversity in action: across farmland and the value chain (1 sub-topic for 2020)	18	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
SFS-02-2020: Healthy terrestrial livestock microbial ecosystems for sustainable production	20	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
SFS-04-2019-2020: Integrated health approaches and alternatives to pesticide use (1 sub-topic for 2020)	20	1	IA	15 Oct 2019	22 Jan 2020
SFS-05-2018-2019-2020: New and emerging risks to plant health	7	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
SFS-06-2018-2020: Stepping up integrated pest management (1 sub-topic for 2020)	6	1	CSA	15 Oct 2019	22 Jan 2020
SFS-10-2020: Epidemiology of non-regulated contagious animal diseases: from integrated data collection to prioritisation	10	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )

SFS-13-2020: Genome and epigenome enabled breeding in terrestrial livestock	14	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
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#### Environment and climate-smart food production and consumption p. 45

SFS-21-2020: Emerging challenges for soil management (2 sub-topics)	14	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
LC-SFS-22-2020: Forest soils Research and Innovation Action	10	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )

#### Building capacities p. 58

SFS-28-2018-2019-2020: Genetic resources and pre-breeding communities (1 sub-topic for 2020)	14	1	IA	15 Oct 2019	22 Jan 2020
SFS-30-2018-2019-2020: Agri-Aqua Labs (1 sub-topic for 2020)	5	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )

#### Targeted international cooperation p. 72

SFS-35-2019-2020: Sustainable Intensification in Africa (1 sub-topic for 2020)	12	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
CE-SFS-36-2020: Diversifying revenue in rural Africa through bio-based solutions	18	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
SFS-40-2020: Healthy soils for healthy food production	5	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )

## 2) Call – Blue Growth (H2020-BG-2018-2020)

Topic	Budget (EUR Mil)	Stages	Action	Opening	Deadline(s)
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#### p. 93

BG-07-2019-2020: The Future of Seas and Oceans Flagship Initiative (1 sub-topic for 2020)	18	1	IALS	15 Oct 2019	22 Jan 2020
BG-10-2020: Fisheries in the full ecosystem context	16	2	RIA	15 Oct 2019	23 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
BG-11-2020: Towards a productive, healthy, resilient, sustainable and highly-valued Black Sea	18	2	RIA	15 Oct 2019	23 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )

## 3) Call – Rural Renaissance (H2020-RUR-2018-2020)

Topic	Budget (EUR Mil)	Stages	Action	Opening	Deadline(s)
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#### From farm to society: understanding dynamics and modernising policies p. 125

RUR-21-2020: Agricultural markets and international trade in the context of sustainability objectives	4	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
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#### Organising sustainable food and non-food value chains under changing conditions p. 136

RUR-05-2020: Connecting consumers and producers in innovative agri-food supply chains	9	1	CSA	15 Oct 2019	22 Jan 2020
RUR-06-2020: Innovative agri-food value chains: boosting sustainability-oriented competitiveness	21	1	IA	15 Oct 2019	22 Jan 2020
RUR-07-2020: Reducing food losses and waste along the agri-food value chain	12	1	IA	15 Oct 2019	22 Jan 2020
CE-RUR-08-2018-2019-2020: Closing nutrient cycles (2 sub-topics for 2020)	16	1	IA	15 Oct 2019	22 Jan 2020
	6	2	RIA		22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )

LC-RUR-11-2019-2020: Sustainable wood value chains (1 sub-topic for 2020)	10	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
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**Boosting innovation and enhancing the human and social capital in rural areas p. 158**

RUR-15-2018-2019-2020: Thematic networks compiling knowledge ready for practice	10	1	CSA	15 Oct 2019	22 Jan 2020
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**4) Call- Food and Natural Resources (H2020-FNR-2020)**

Topic	Budget (EUR Mil)	Stages	Action	Opening	Deadline(s)
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**p. 167**

FNR-01-2020: Strengthening the European agro-ecological research and innovation ecosystem	2	1	CSA	15 Oct 2019	22 Jan 2020
FNR-02-2020: Developing long-term monitoring and evaluation frameworks for the Common Agricultural Policy	2	1	CSA	15 Oct 2019	22 Jan 2020
FNR-03-2020: A comprehensive vision for urban agriculture	2	1	CSA	15 Oct 2019	22 Jan 2020
FNR-04-2020: Towards a European research and innovation roadmap on soils and land management	1	1	CSA	15 Oct 2019	22 Jan 2020
FNR-05-2020: Husbandry for quality and sustainability (2 sub-topics)	21	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
FNR-06-2020: Defossilising agriculture – solutions and pathways for fossil-energy-free farming (2 sub-topics)	12	1	CSA IA	15 Oct 2019	22 Jan 2020
FNR-07-2020: FOOD 2030 - Empowering cities as agents of food system transformation	38	1	IA	15 Oct 2019	22 Jan 2020
FNR-08-2020: Supporting the food safety systems of the future	3	1	CSA	15 Oct 2019	22 Jan 2020
CE-FNR-09-2020: Pilot action for the removal of marine plastics and litter	13.2	1	IA	15 Oct 2019	22 Jan 2020
FNR-10-2020: Public engagement for the Bioeconomy	1	1	CSA	15 Oct 2019	22 Jan 2020
FNR-11-2020: Prospecting aquatic and terrestrial natural biological resources for biologically active compounds (2 sub-topics)	30	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
FNR-12-2020: Industrial microbiomes – learning from nature	12	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
LC-FNR-13-2020: Bio-based industries leading the way to turning carbon dioxide emissions into chemicals	21	2	RIA	15 Oct 2019	22 Jan 2020
FNR-14-2020: Innovative textiles – reinventing fashion	21	1	IA	15 Oct 2019	22 Jan 2020
FNR-15-2020: A network of European bioeconomy clusters to advance bio-based solutions in the primary production sector	2	1	CSA	15 Oct 2019	22 Jan 2020
FNR-16-2020: Enzymes for more environment-friendly consumer products	18	2	RIA	15 Oct 2019	22 Jan 2020 (1 <sup>st</sup> ) 8 Sep 2020 (2 <sup>nd</sup> )
CE-FNR-17-2020: Pilot circular bio-based cities – sustainable production of bio-based products from urban biowaste and wastewater	8	1	IA	15 Oct 2019	22 Jan 2020

FNR-18-2020: Sustainability of bio-based products – international governance aspects and market update	1.5	1	CSA	15 Oct 2019	22 Jan 2020
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CSA = Coordination and Support Action, IA = Innovation Action, IALS = Innovation Action Lump Sum RIA = Research and Innovation Action

### Indicative timetable for evaluation and grant agreement signature:

For single stage procedure:

- Information on the outcome of the evaluation: max. 5 months from the final date for submission
- Indicative date for the signing of grant agreements: max. 8 months from the final date for submission.

For two stage procedure:

- Information on the outcome of the evaluation: max. 3 months from the final date for submission for the first stage and max. 5 months from the final date for submission for the second stage
- Indicative date for the signing of grant agreements: max 8 months from the final date for submission of the second stage.

**Exceptions and conditions – consult the work programme “Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy” for more details:**

Grant conditions	Eligibility and admissibility conditions	Evaluation exceptions
SFS-01-2018-2019-2020	SFS-35-2019-2020	BG-07-2019-2020
SFS-28-2018-2019-2020	SFS-36-2020	FNR-05-2020
BG-07-2019-2020	SFS-21-2020	FNR-11-2020
	BG-07-2019-2020	LC-FNR-06-2020
		CE-RUR-08-2018-2019-2020

Notice that consortium agreement needed for all consortium submissions.

### Online sources of information:

- European Commission’s H2020 pages:  
<http://ec.europa.eu/research/horizon2020>
- European Commission funding & tenders:  
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/h2020>
- Finnish H2020 pages:  
<https://www.businessfinland.fi/suomalaisille-asiakkaille/palvelut/rahoitus/horisontti-2020/lyhyesti>

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