



# HORIZON 2020

LE PROGRAMME DE RECHERCHE ET  
D'INNOVATION DE L'UNION EUROPÉENNE



## SOCIETAL CHALLENGE 2 : **Food security, Sustainable Agriculture & Forestry, Marine, Maritime & inland Water Research and the Bioeconomy**



**Christophe Cotillon - ACTIA**



# From FP7 to Horizon 2020...

- **HORIZON 2020** : more than 80 billion €, the biggest budget for research and innovation in the history of the EU (...FP7 : ± 50 B€...)
- <8% multiannual financial framework 2014-2020 of the EU (± 908 B€) implementing the "**Europe 2020**" strategy :
  - as part of one of the 7 flagship initiatives "**Innovation Union**"
  - contributing to the **European Research Area "ERA"**
- An integrated approach, from research to innovation and commercialisation (*"Bring ideas to the market"*)



**2007-2013 "FP7"**  
**Objective : build the Europe of Knowledge**

**2014-2020 "Horizon 2020"**  
**Objective : build the Europe of Innovation**



# Funding instruments based on calls for proposals



- Selection of projects by **competition** between proposals responding to **calls**

- "Tout le monde" can participate (everybody / all the world...)
- Evaluations by independent experts (3 criteria...)
- Procedure in 2 stages for the "big" projects (**RIA** and **IA**), only 1 stage for smaller ones (**CSA**...)
- A new cascading approach in **HORIZON 2020**
  - ① **a specific programme** published by the EC to implement H2020 (7 years),
  - ② **a strategic programme** (reflections on priorities... for 2+... years)
  - ③ **a workprogramme (CALLS** for 2 years...), published every year.



# Architecture of Horizon 2020

## 3 Pillars or Priorities...\*



### Excellent science

4 objectives

1. The European Research Council (ERC) (*Frontier research - indiv.*)
2. Future & Emerging Technologies (FET) (*Bottom-up - collab.*)
3. Marie-Sklodowska Curie Actions (*skills, carrier devel - indiv.*)
4. Research Infrastructures

### Industrial leadership

3 objectives

1. Leadership in enabling & industrial technologies
  - ICT
  - Nano
  - Advanced materials
  - **Biotechnology**
  - Advanced manufact. & processing
  - Space
2. Access to Risk Finance
3. Innovation in SMEs

### Societal challenges

7 challenges

1. Health, demographic changes & wellbeing
2. **Food security, sustainable agriculture & forestry, marine, marit. & inland water res. & Bioeconomy**
3. Secure, clean & efficient energy
4. Smart, green & integrated transport
5. Climate action
6. Inclusive, innovating & reflective Societies
7. Secure societies

EURATOM

Spreading excellence and widening participation

Science with and for society

European Institute of Innovation & Technology (EIT)

Joint Research Centre (JRC)

# Architecture of Horizon 2020

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**EURATOM**



# Societal Challenge 2 (SC2)



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## Specific Programme

(2014-2020)

5 areas...

1. Sustainable agriculture & forestry

2. Sustainable & competitive agri-food sector for a safe & healthy diet

3. Unlocking the potential of aquatic living resources

4. Sustainable and competitive bio-based industries / Biotechnology

5. Cross-cutting marine & maritime research



## Work-Programme

(2018 - 2020)

4 calls for proposals...

1. Focus Area: Sustainable Food Security (SFS)

2. Focus Area : Blue Growth (BG)

3. Call for a Rural Renaissance (RUR)

4. Call for Bio-based Innovation (BE)

Strategic Reflection :  
"Scoping Paper"  
...translation into Topics...

JTI "BBI" (BioBased Industries Joint Undertaking)  
(PPP: 3.7 (1 + 2.7) B€ / 7 years ; 4th call April 2017)

+ Contribution to other Focus areas (Health, Waste, Water...)



# 5 major 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.



# The funding instruments

## • Research & Innovation Actions (RIA) – (TRL\* up to 5)

- Collaborative Research ; at least 3 partners from 3 different MS or AC ; overall min. 20% of budget for SMEs
- Funding **100%** for academic and SMEs ; Indirect costs : **25%** of direct costs

## • Innovation Actions (IA) – (TRL\* 6 to 8...)

- Funding **70%** for commercial (profit) partners ; 100% for academic **and SMEs** ;
- Indirect costs : **25%** of eligible direct costs

## • "SME Instrument" - (single SME...)

- Phase 1 (faisability) lump-sum **50 K€** (6 month project) ;
- Phase 2 (development) **1-2,5 M€** (1-2 year project) ;
- Phase 3: (commercialisation) **in-kind** "coaching" et "mentoring" (EEN...)

## • New in 2015 : "Fast-track to Innovation"

- very close to market (100 % or 70% funding...)

## • Coordination & Support Actions

- 100% funding (mostly "institutional" partners)

## • ERA-NET Cofund - (Public-Public Partnerships...)

\* Technology Readyness Level



## A new concept



### The multi-actor approach »

- Innovation projects responding to a societal demand,
- Necessity to involve all competent and relevant actors on a specific topic or thematic from the conception of the project until transfer and dissemination activities,
- Complementarity and synergy in terms of competencies for those actors working in the same discipline or topic (Research, Experiment, Advise, Transfer),
- Necessity to improve knowledge exchange between all these actors,
- Objective to succeed in practical and operational solutions applicable by end-users and widely disseminated.



# Deadlines for submission

**1 step proposals : 13 February 2018  
23 January 2019**

**2 steps proposals: 13 February 2018/23 January 2019  
11 September 2018 / 04 September 2019**



# Call for Sustainable Food Security (SFS): *Resilient and resource-efficient value chains*

**"Sustainable food security..."**

*“...when all people at all times have access to sufficient, safe, nutritious food to maintain a healthy and active life...”*

*WP 2018-2019 "Draft 3": 48 topics*

- 12 "topics" for 2018 ; **218,75 M€**
- 11 "topics" for 2019 ; **296 M€**
- 7 pour 2018 and 2019...



1

# Call for Sustainable Food Security (SFS)

## "Focus Area"



### Four action lines:

- Deliver diverse and healthy food from land and sea,
- Increase resource efficiency and environmental performance of food systems from primary production to consumers,
- Understand the impact of climate change on agriculture, resources, food quality and identify options to manage its effects,
- Reduce greenhouse gas emissions and emissions of air pollutants from land use and food production taking into account main drivers such as inputs and consumption patterns.

### Opening to International Cooperation:

- Support to the implementation of the EU-Africa Partnership on Food and Nutrition Security and Sustainable Agriculture,
- Implementation of the EU-China FAB Flagship initiative.

### Support to policy priorities of UE:

- Food security, preservation of resources, soils, biodiversity, environment...
- EIP-AGRI « Productive and Sustainable Agriculture »
- CAP, PCP, Health policy & consumers



# 1. Call for Sustainable Food Security (SFS)



1

## 1.1 From functional ecosystems to healthy food - (17 topics ; p.1/3)

SFS-01-2018/2019/2020 : Biodiversity in action : across farmland and the value chain

A:2018 Small organisms, big effects for plants

RIA, 14 M€ (X2)

B:2019 Capitalising on native biodiversity in farmland landscape

RIA, 16 M€ (X2)

C:2020 From agrobiodiversity to dynamic value chains

RIA

LC-SFS-03-2018 : Microbiome applications for sustainable food systems

IA, 42 M€ (X4)

SFS-04-2019/2020 : Integrated health approaches and alternatives towards pesticide use

A:2019 Integration of plant protection in a global Health approach

RIA, 15 M€

B: 2020 Biocidal and plant protection products

IA

SFS-05-2018/2019/2020 : New and emerging risks in plant health

RIA, 7M€

SFS-06-2019/2020 : Stepping up integrated pest management

A: 2018 Decision support systems

RIA, 5M€

B: 2020 EU wide demonstration farm network

RIA



# Structure of a topic

♫ Specific challenge

♫ Scope

♫ Expected impact

♫ Type of action



# 1. Call for Sustainable Food Security (SFS)



## 1.1 From functional ecosystems to healthy food - (17 topics) (p.2/3)

**SFS-07-2018 : Making European beekeeping healthy and sustainable**

**RIA, 8 M€**

**SFS-08-2018/2019 : Improving animal welfare**

**A:2018 Organic and low-input farming**

**RIA, 10M€ (X2)**

**B:2019 Precision livestock farming**

**IA, 6M€**

**SFS-11-2018/2019 : Anti-microbials and animal production**

**A:2018 Rethinking management of health of farmed animals**

**RIA, 12M€ (X2)**

**B:2019 Alternative to anti-microbials**

**RIA, 6M€**

**SFS-12-2019 : A vaccine against African Swine Fever**

**IA, 10M€**

./.



# 1. Call for Sustainable Food Security (SFS)



## 1.1 From functional ecosystems to healthy food - (17 topics) (p.3/3)

**DT-SFS-14-2018/2019 : Personalized Nutrition**

**IA, 7M€ (X4)**

**LC- SFS-15-2018 : Future proofing our plants**

*évaluation qualités végétales*

**CSA, 3M€**

**SFS-16-2018 : Towards healthier and sustainable food**

**RIA, 14 M€ (X2)**

**LC-SFS-17-2019 : Alternative proteins for food and feed**

**IA, 8M€ (X4)**

**Focus areas : (DT) digitisation (LC) Low Carbon**



1

# 1. Call for Sustainable Food Security (SFS)



## 1.2 Environment and climate smart food production and consumption –

(5 topics)

**LC-SFS-19-2018-2019 : Climate-smart and resilient farming**

A: 2018 Microclimate management : from field to landscape

RIA, 7M€

B: 2019 Efficiency and resilience of mixed farming and agroforestry systems

RIA, 7M€ (X2)

**LC-SFS-20-2019 : European Joint Programme on agricultural soil management**

EJP Co-fund (50%), 40M€

**SFS-23-2019 : Integrated water management in small agriculture catchments**

RIA, 7M€ (X2)

**CE-SFS-24-2019 : Innovative and citizen-driven food system approaches in cities**

IA, 12M€ (X2)

**CE-SFS-25-2018: Integrated system innovation in valorising urban biowaste**

IA, 10M€ (X2)



1

# 1. Call for Sustainable Food Security (SFS)



## 1.3 Building capacities – (5 topics)

### DT-SFS-26-2019 : Food Cloud demonstrators

From TRL 4-5 to TRL 6-7

IA, 10M€

### SFS-27-2018 Monitoring food R&I investments and impacts

RIA, 7M€

### SFS-28-2018/2019/2020 : Genetic Resources and Pre-breeding communities

A: 2018 Joining forces for GenRes and biodiversity management

CSA, 3M€

B: 2019 Adding value to plant GenRes

RIA, 14M€ (X2)

C: 2020 The GenRes-user interface and pre-breeding activities

IA

### SFS-29-2018 : Innovations in plant variety testing – nouvelles variétés végétales

RIA, 8 M€

### SFS-30-2018/2019/2020 : Agri-Aqua Labs

A:2018 Understanding the genome of farmed animals, its expression and translation into traits- IA, 18M€ (X3)

B: 2019 Looking beyond plant adaptation RIA, 10M€ (X2)

C: 2020 Plant energy biology

### SFS-31-2019 : ERANETs in agri-food (tbc)

A: 2019 ICT-Enabled Agri-food Systems

Eranet Cofund, 6M€

B: 2019 Climate change and Food Systems

Eranet Cofund, 5M€

C: 2019 International Veterinary Vaccinology

Eranet Cofund, 5M€



1

# 1. Call for Sustainable Food Security (SFS)



## 1.4 Targeted international cooperation – (6 topics)

**SFS-32-2018 (LC) : Supporting Microbiome Coordination and the International Bioeconomy Forum**

**CSA, 2,75 M€**

EU-Africa partnership on food and nutrition security and sustainable agriculture

**SFS-33-2018:** Support to the implementation of EU Research and innovation partnership on Food and Nutrition Security and Sustainable Agriculture (FNSSA)

**CSA, 5M€**

**LC-SFS-34-2019 :** Food Systems Africa

**RIA, 21M€ (X3)**

**SFS-35-2019/2020 :** Sustainable Intensification in Africa

**A:2019 African Farming Systems, sustainable intensification pathways**

**RIA, 7,5 M€, maa**

**B:2019 Soil system for Africa**

**RIA, 5M€**

EU-China FABFlagship initiative

**SFS-37-2019:** Integrated approaches to food safety controls across the agri-food chain

**RIA, 8 M€ (X2)**

**SFS-38-2018 :** Highly efficient management of soil quality and land resources

**RIA, 5M€**

**CE-SFS-39-2018 :** High-quality organic fertilisers from biogas digestate

**IA, 5M€**



3

## Call for Blue Growth (BG) : *demonstrating an Ocean of Opportunities*

- 3 topics pour 2018 - **77,5 M€**
- 3 topics pour 2019 – **89 M€**
- 3 topics for 2018 & 2019

DRAFT

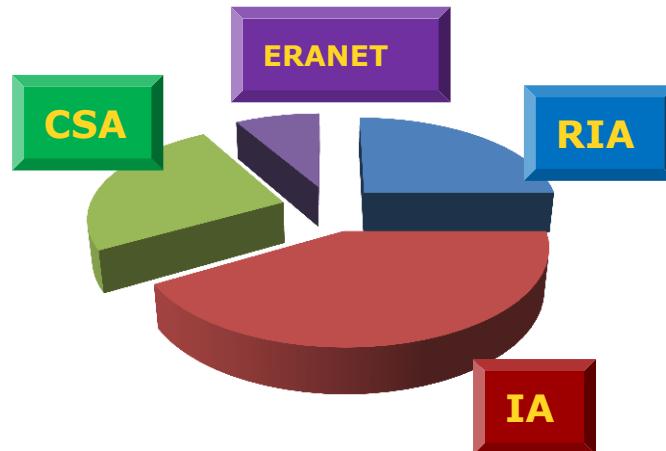
# Blue Growth Call 2018-2019

**Indicative BUDGET: 166,5 M €**      **2018: 77,5 M €**  
**2019: 89 M €**

## Activity lines:

- 2.3 Exploiting the potential of aquatic living resources**
- 2.5 Cross cutting marine and maritime research**

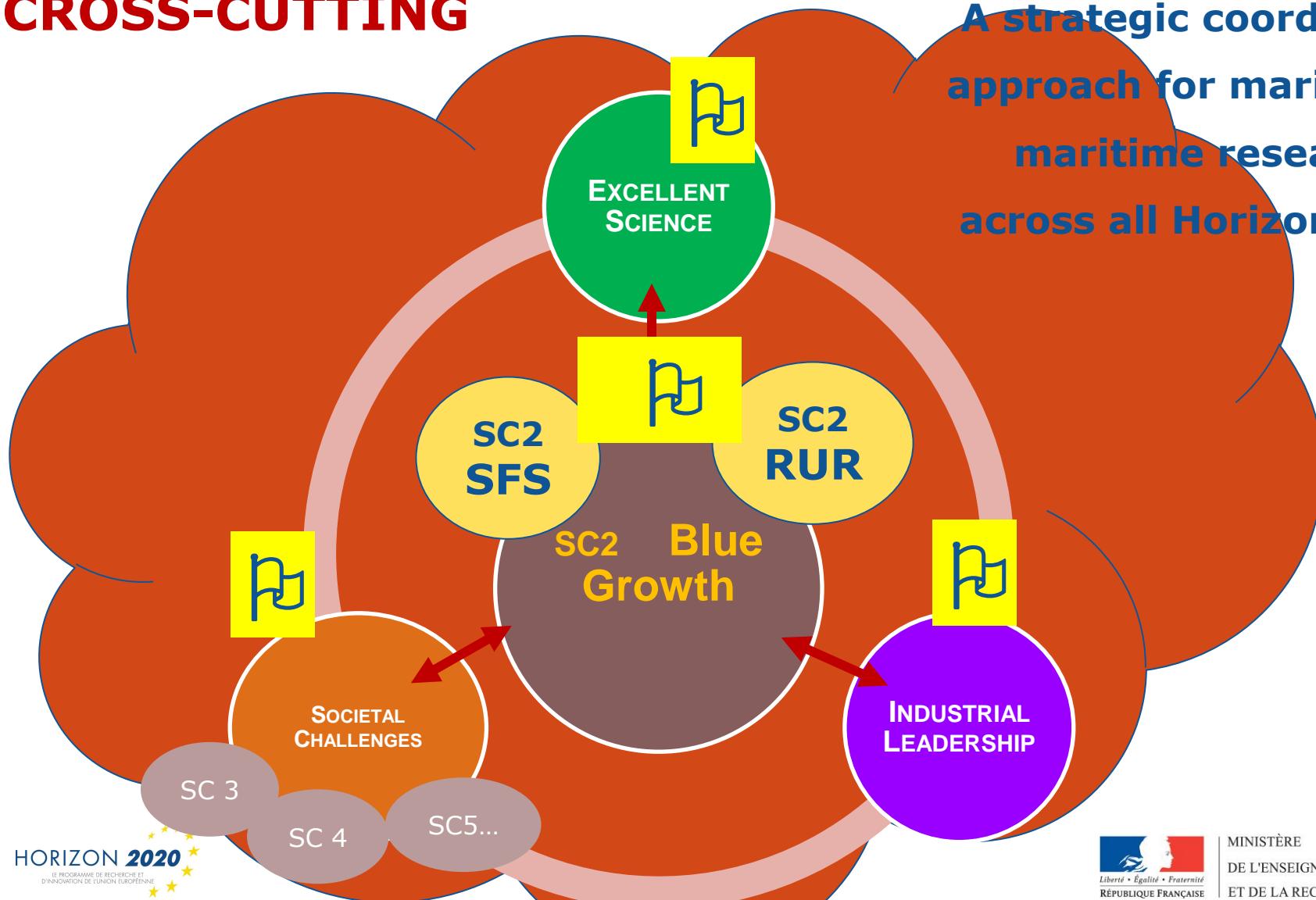
**9 Topics**





## CROSS-CUTTING

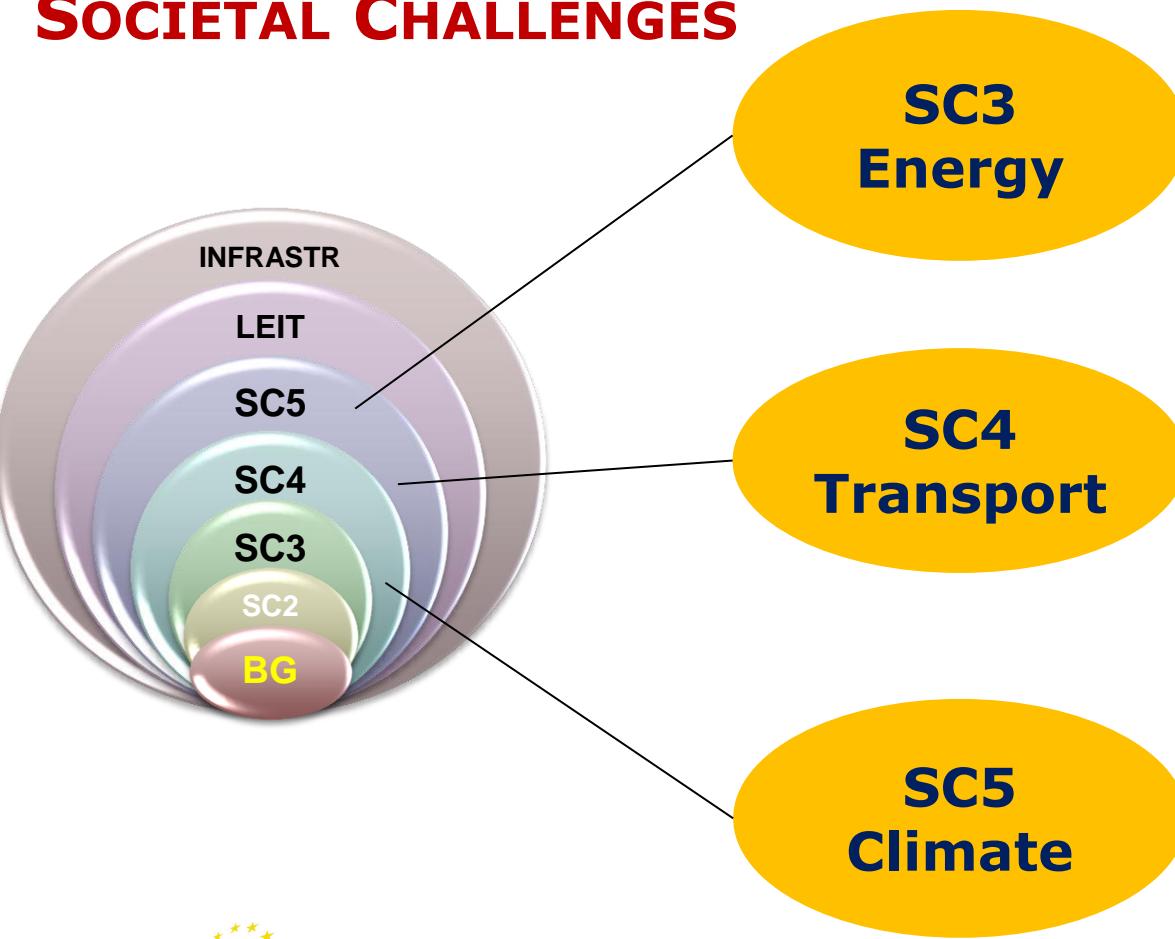
A strategic coordinated approach for marine and maritime research across all Horizon 2020



DRAFT

# Blue Growth across H2020

## SOCIETAL CHALLENGES



- wave energy
- floating wind farms
- aquatic biomass biofuel
- offshore storage of CO<sub>2</sub>
- Shipping renewable fuel
- Energy islands

- Innovative ships
- autonomous ships
- ship emissions
- unmanned activities
- underwater noise
- maritime transport safety
- Marine accidents response

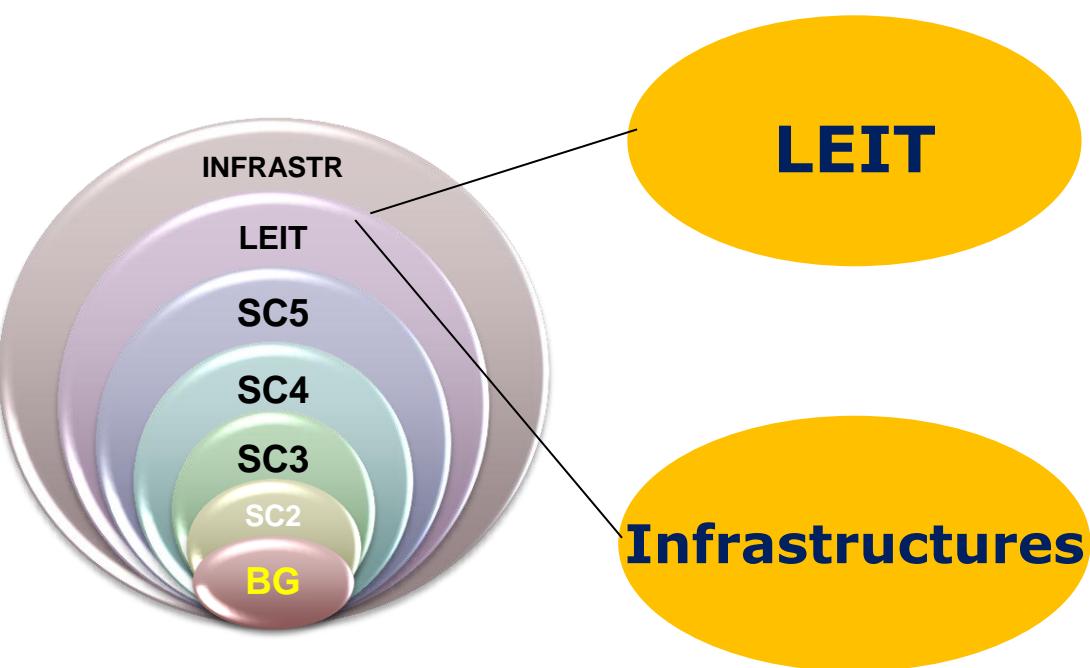
- Climate change, biodiversity and ecosystems
- recovery of sea resources
- sea level changes
- Cryosphere

DRAFT

# Blue Growth across H2020

## INDUSTRIAL LEADERSHIP / RESEARCH INFRASTRUCTURES

### EXAMPLES



- **SPACE – Copernicus Marine Services, ocean models**
- **NMBP: off-shore energy materials**
- **Research Vessels**



### 3. Call for Blue Growth: demonstrating an Ocean of Opportunities



**BG-01-2018 : Towards a Baltic and North Sea research and innovation programme**

**CSA, 2,5M€**

**BG-02-2018 : Blue Bioeconomy Public-Public Partnership**

**ERANet Cofund, 8M€**



### 3. Call for Blue Growth: Unlocking the potential of the Oceans



**LC-BG-03-2018 : Sustainable harvesting of marine biological resources**

**RIA, 6M€**

**DT-BG-04-2018/2019 : Sustainable EU aquaculture 2.0**

**2018 IA, 6M€**

**BG-05-2019 : Multi-use of the marine space, offshore and near-shore: pilot demonstrators**

**IA, 18M€ (X2)**

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

**IA, 18M€ (X2)**

**Focus areas : (CE) circular economy (LC) Low Carbon**



### 3. Call for Blue Growth: Unlocking the potential of the Oceans



3

#### BG-07-2019/2020: The Future of Seas and Oceans Flagship Initiative

A: 2019 Blue Cloud Services

IA, 6M€

B: 2019 Observation and forecasting

IA, 12M€

C : 2020 Technologies for observations

IA

#### BG-08-2018/2019 : All Atlantic Ocean Research Alliance Flagship

A: Coordination of marine and maritime research and innovation activities in the Atlantic Ocean

CSA, 8M€ (X2)

B: Assessing the status of Atlantic marine ecosystems

RIA, 27M€ (X3)

C: New value chains for aquaculture production

RIA, 8M€

#### LC-BG-09-2019 : Coordination of marine and maritime research and innovation activities in the Black Sea

CSA, 2M€

Focus areas : (CE) circular economy

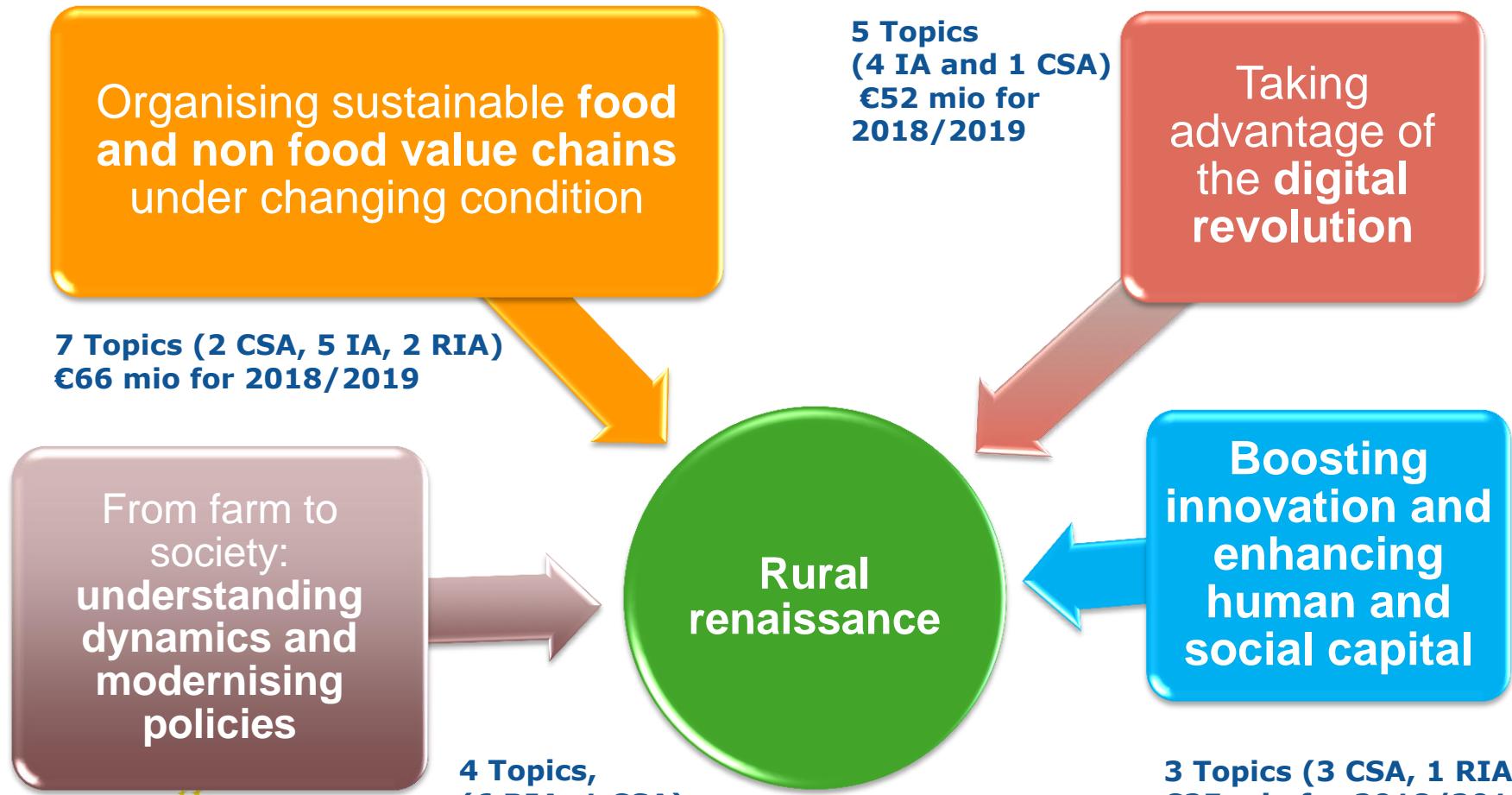


## Call for a Rural Renaissance (RUR) Fostering innovation and business opportunities

Draft WP : 20 topics

- *5 topics pour 2018 - 107,43 M€*
- *3 topics pour 2019 – 74 M€*
- *4 topics pour 2018 & 2019*

# 2018/2020 RUR Call structure





# Contributions to focus areas

DT  
Digitisation

- **DT-RUR-12-2019 Agricultural digital cross-cutting integration platforms**
- **DT-RUR-13-2020 Digital service platforms for rural economies**
- **DT-RUR-14 -2018 ICT innovation for agriculture – digital innovation hubs**

LC  
Low Carbon

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

CE  
Circular Economy

- **CE-RUR-08-2018-2019-2020 Closing nutrient cycles**
- **CE-RUR-10-2019 Circular biobased business models**



2

## 2. Call for a Rural renaissance



### 2.1 From farm to society: understanding dynamics and modernising policies – (4 topics)



**RUR-01-2018-2019** : Building modern rural policies on long-term visions and societal engagement

A: 2018 Rural society-science-policy hub

CSA, 5M€

B: 2018 Renewing rural generations, jobs and farms

RIA, 6M€

C: 2019 Building resilient mountain value chains delivering private and public goods

RIA, 6M€

**RUR-02-2018** : Socio-economic impacts of digitisation of agriculture and rural areas

RIA, 5M€

**RUR-03-2018** : Contracts for effective and lasting delivery of agri-environmental public goods

RIA, 5M€

**RUR-04-2018-19** : Analytical tools and models to support policies related to agriculture and food

A: 2018 Developing new models supporting policies related to agriculture

RIA, 4M€

B: 2019 Modelling international trade in agro-food products

RIA, 5M€



## 2. Call for a Rural renaissance

2

### 2.2 Organising sustainable food and non-food value chains under changing conditions –



#### CE-RUR-08-2018/2019/2020 : Closing nutrient cycles

- |   |          |
|---|----------|
| A: 2018 Understanding properties and impacts of bio-based fertilisers   | RIA, 6M€ |
| B: 2018-19-20 Bio-based fertilisers from animal manure  | IA, 8M€  |
| C: 2020 Bio-based fertilisers from other by-products of the agro-food, fisheries, aquaculture or forestry sectors | IA       |

#### RUR-09-2018 : Realising the potential of regional and local bio-based economies

CSA, 3M€

#### CE- RUR-10-2019/2020 : Circular bio-based business models for rural communities

IA, 10M€

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

- |                                  |          |
|----------------------------------|----------|
| A: 2019 Building with wood       | IA, 10M€ |
| B: 2020 Resilient forest systems | IA       |



2

## 2. Call for a Rural renaissance

### 2.3 Taking advantage of the digital revolution – (5 topics)



**DT-RUR-12-2018 : ICT Innovation for agriculture – Digital Innovation Hubs for Agriculture**

IA, 10M€

**DT- RUR-13-2020: Enabling the farm advisor community to prepare farmers for the digital age**

CSA, 7M€

**DT-RUR-14-2018: Digital solutions and e-tools to modernise the CAP**

IA, 10M€, maa



2

## 2. Call for a Rural renaissance



### 2.4 Boosting innovation and enhancing the human and social capital in rural areas – (2 topics)

**RUR-17-2018/2019/2020** : Thematic networks compiling knowledge ready for practice

**CSA, 2M€ – AKIS – EIP Agri**

**RUR-18-2019** : Fuelling the potential of advisors for innovation

**CSA, 5M€ - AKIS**



## To know more about



- <http://ec.europa.eu/research/horizon2020/>
- <https://ec.europa.eu/programmes/horizon2020/en/draft-work-programmes-2016-17>
- <http://ec.europa.eu/research/participants/portal/>
  - [desktop/en/opportunities/index.html \(\*on-line manual\*\)](http://desktop/en/opportunities/index.html)
  - [desktop/en/experts/index.html \(\*expert evaluators\*\)](http://desktop/en/experts/index.html)
- <http://www.horizon2020.gouv.fr>



# Point de Contact National "BIO"\*

**Le 1<sup>er</sup> Cercle:**  
Un consortium  
public-"**privé**"...



• DEFI SOCIETAL 2 :  
Sécurité alimentaire,  
Agriculture & Foresterie durables,  
Recherche Marine, Maritime, Eaux continentales  
et Bioéconomie



• Primauté Industrielle :  
Technologie Générique Clé  
"Biotechnologie"

Conférence  
des présidents  
d'université



MINISTÈRE  
DE L'ENSEIGNEMENT SUPÉRIEUR  
ET DE LA RECHERCHE

\* Le réseau français des PCN est coordonné par le MENESR



## Le 2e cercle

# Le soutien stratégique du PCN-BIO



PME  
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HORIZON 2020  
LE PROGRAMME DE RECHERCHE ET D'INNOVATION DE L'UNION EUROPÉENNE



ania  
Association Nationale des Industries Alimentaires

acta  
LES INSTITUTS TECHNIQUES AGRICOLES

•DEFI SOCIETAL 2 :  
Sécurité alimentaire,  
Agriculture & Foresterie durables,  
Recherche Marine, Maritime,  
et eaux continentales  
et Bioéconomie

• Primaute Industrielle :  
Technologie Générique Clé  
"Biotechnologie"



DGE  
DIRECTION GÉNÉRALE DES ENTREPRISES



G.T.N & R.C.P



MINISTÈRE DE L'AGRICULTURE DE L'AGROALIMENTAIRE ET DE LA FORÊT



Ifremer



BIO HORIZON



MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR ET DE LA RECHERCHE



# Les contacts au PCN-BIO français (1/2)

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<http://www.horizon2020.fr>

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**Mers & Océans**  
MINISTÈRE  
DE L'ENSEIGNEMENT SUPÉRIEUR  
ET DE LA RECHERCHE



## Les contacts PCN & RCP français (2/2)

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| <p><i>Stéphanie<br/>HUGON</i></p>  |  <p>MEIN</p>  | <p>stephanie.hugon@finances.gouv.fr<br/><b>01 79 84 32 29</b></p> <p><b>PCN &amp; exp. CP : Biotechnologies</b></p> |



En savoir plus...



- <http://ec.europa.eu/research/horizon2020/>
- <http://ec.europa.eu/research/participants/portal/>
  - desktop/en/opportunities/index.html (*on-line manual*)
  - desktop/en/experts/index.html (*expert evaluators*)
- <http://www.horizon2020.gouv.fr>

