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Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 14 November 2017
Three Societal challenge 2 calls

Research and
Innovation



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Horizon 2020 Work Programme for Research & Innovation 2018-2020

Sustainable Food Security

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Sustainable Food Security

€ 753 million to use our resources more wisely
and nourish people more sustainably



Produce more **diverse and healthier food** from well-managed functional ecosystems



Increase resource **efficiency and environmental performance** of food systems



Understand the impact of climate change and design **adaptation strategies**



Going global: joint actions with Africa and China



Sustainable food security – 753M€ (2018-2020)



From functional ecosystems to healthy food

•18 Topics – 391 M€



Environment and climate smart food production and consumption

•7 Topics – 132M€



Building capacities

•6 Topics – 115 M€



Targeted international cooperation

9 Topics – 115M€

Type of actions :
RIA, IA, CSA, EJP, ERANET

Sustainable food security topics (2018-2019)

From functional ecosystems to healthy food

- Biodiversity in action
- Microbiome
- Integrated health approaches
- IPM
- Healthy beekeeping
- Animal welfare
- Anti-microbials and animal production
- African Swine fever
- Personalised nutrition
- Plant breeding
- Healthy sust. food
- Alternative proteins

Environment/ Climate-smart food production and consumption

- **Climate-smart farming**
- **EJP soils**
- Integrated water management
- Citizen-driven food system approaches in cities
- Valorising urban biowaste

Building capacities

- Food cloud
- Monitoring R&I investments
- **GenRes & pre-breeding**
- Plant-variety testing
- Agri-Aqua labs
- ERANETs

Targeted international cooperation

- Microbiome coordination and IBF
- **EU-Africa**
 - ✓ Support FNSSA implementation
 - ✓ Food systems
 - ✓ Sustainable intensification
- **EU-China**
 - ✓ Food safety controls
 - ✓ Soils management
 - ✓ Fertilisers from biogas digestate





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Rural renaissance

Research and
Innovation

Rural renaissance

€ 263 million for rural territories

to become smarter, greener more circular and better connected



Invest in policies fit for the future:

Modernizing policies to favour generation renewal and greater resilience and public goods delivery



Invest in businesses:

Developing small scale refineries, boosting regional bioeconomy and innovative supply chains



Go digital:

Making the promises of the digital revolution come true for farmers and rural people



Invest in people:

Boost innovation, co-creation and exploitation of knowledge by improving skills and innovation systems



Rural renaissance – 263M€ (2018-2020)



**From farm to society:
understanding
dynamics and
modernising
policies**

4 Topics €60 mio

**Organising
sustainable
food and non-
food value
chains under
changing
conditions**

•5 Topics - €125 mio

**Taking
advantage
of the digital
revolution**

3 Topics - €37 mio
•(+2 topics €30 mio
under ICT call)

**Boosting
innovation and
enhancing
human and
social capital**

•3 Topics - €41 mio

Type of actions :
RIA, IA, CSA

Rural renaissance topics (2018-2019)

Dynamics & policies

- **Modern policies from long-term visions & societal engagement:**
 - ✓ Science-policy-society hub
 - ✓ Generation renewal
 - ✓ Mountain value chains and climate change
- **Socio-economic impacts of digitisation**
- **Contracts for delivery of agro-environmental public goods inc:**
 - ✓ Land tenure
 - ✓ Result-based policies
 - ✓ Collective delivery
- **Analytical tools and models**
 - ✓ New models for policy
 - ✓ Modelling trade

Food & non-food Value chains

- **Closing nutrient cycles:**
 - ✓ Properties and impacts of biofertilisers
 - ✓ Bio-based fertilisers from manure
 - ✓ Bio-based fertilisers from other by products
- **Regional and local bio-based economies**
- **Circular bio-based business models for rural communities**
- **Sustainable wood value chains**
 - ✓ Building with wood
 - ✓ Resilient forest systems

Taking advantage of the digital revolution

- **Digital innovation hubs** for agriculture
- **Preparing advisors** for the digital age
- **Digital solutions and e-tools** to modernise the CAP

+ UNDER LEIT-ICT call

- Agricultural cross-cutting integration platforms

Innovation and human capital

- **Thematic networks** compiling knowledge ready for practice
- Fuelling the potential of **advisors for innovation**

Thank you!

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#H2020SC2

www.ec.europa.eu/research/bioeconomy

www.ec.europa.eu/agriculture/research-innovation_en

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