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

## Funding Opportunities for International Cooperation in selected Work Programmes

### Success Stories from Algeria

Name:

Function:

Research and  
Innovation



# Work Programmes priorities

**5 main priorities** that address the COP21 Paris Agreement and the UN's Sustainable Development Goals:

- 1. Increased investment in sustainable development and climate related R&I: the focus area 'Building a low Carbon, Climate-resilient Future'** will provide a very effective means to align R&I investments towards the climate and sustainable development targets.
- 2. Integrating digitisation in all industrial technologies and societal challenges:** combination of digital technologies and advanced technologies and service innovation creates opportunities for increasing industrial competitiveness, growth and jobs and addressing societal challenges.
- 3. Strengthening international R&I cooperation:** It allows to access research excellence and all types of know-how wherever it is located, and to tap into global talent, innovation networks and value chains. Measures will be taken in this work programme across all areas.

4. **Societal Resilience:** large migration pressures, cyber-crime, security threats as well as hybrid threats. Such events require, more than ever, capacities for coordinated EU responses.
5. **Market creating innovation:** better performance for capturing innovative ideas with the potential to create new markets and strengthen Europe's industrial base. Innovation-friendly framework conditions are a prerequisite for such new markets to develop in Europe

## WP focus areas

1. Building a low-carbon, climate resilient future
2. Connecting economic and environmental gains – the Circular Economy
3. Digitising and transforming European industry and services
4. Boosting the effectiveness of the Security Union

## Types of action

- **RIA:** Action to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service or solution. They may include basic and applied research, technology development and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment. Funding rate: 100%
- **IA:** activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services. They may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication. Funding rate: 70% (except for non-profit legal entities, where a rate of 100% applies)
- **CSA:** Actions consisting primarily of accompanying measures such as **standardisation, dissemination, awareness-raising and communication, networking, coordination or support services, policy dialogues and mutual learning exercises and studies, strategic planning, networking and coordination between programmes** in different countries. Funding rate: 100%





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

**Leadership in enabling and  
industrial technologies  
Information and  
Communication  
Technologies**

Research and  
Innovation



# BASIC FACTS ON ICT IN WP2018-2020

*Horizon 2020 Pillar:  
Leadership in enabling and  
industrial technologies*



**Work Programme 2018-2020 Part 5.i.:  
Information and Communication  
Technologies**

*Main call groups:*



**Information and Communication  
Technologies**  
(ICT) total 35 topics



**Digitising and Transforming European  
Industry and Services: Automated  
Road Transport**  
(DT-ICT) total 13 topics



**Cybersecurity**  
(SU-ICT) 4 topics

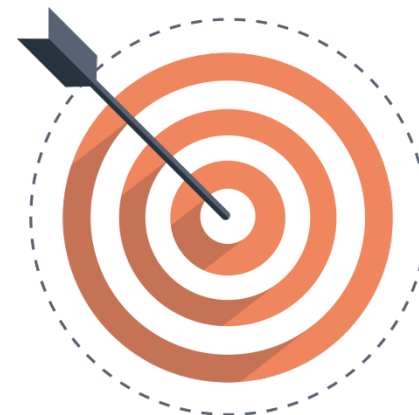
56 topics  
1,738 MEUR total budget

# Specific topics targeting cooperation with International partners

- Call: Information and Communication Technologies (H2020-ICT-2018-2020)
- Topic: **Electronic Smart Systems (ICT-07-2018)**
- Eligibility condition: Establishing of International cooperation in the field (CSA)

Official documents: :

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ict-07-2018.html>



Targeted  
Opening: 31  
October  
2017

Deadline: 17  
April 2018



# Specific topics targeting cooperation with International partners

- Call: Information and Communication Technologies (H2020-ICT-2018-2020)
- Topic: **Advanced 5G validation trials across multiple vertical industries (ICT-19-2019)**
- Eligibility condition: support to core international cooperation activities (CSA)
- Official documents: :

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ict-19-2019.html>



**Targeted  
Opening: 26  
July 2018**





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

**Societal Challenge 2:  
Food security, sustainable  
agriculture and forestry,  
marine, maritime and inland  
water research and the  
bioeconomy**

Research and  
Innovation



# BASIC FACTS ON THE CHALLENGE IN WP2018-2020

## *Horizon 2020 Pillar: Societal Challenges 2 (SC2)*



**Work Programme 2018-2020 Part 9:  
Food security, sustainable agriculture and  
forestry, marine, maritime and inland  
water research and the bioeconomy**

## *Main call groups:*



**Sustainable Food Security (SFS)  
Blue Growth (BG)  
Rural Renaissance (RUR)**

56 topics

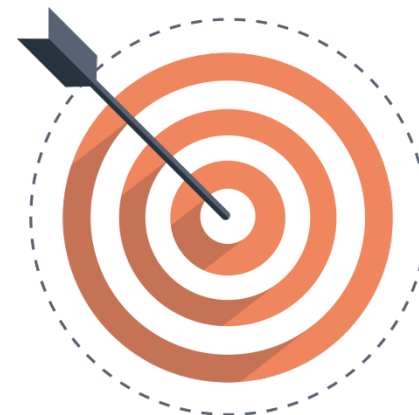
1,333 MEUR total budget

# Specific topics targeting cooperation with International partners

- Call: Sustainable Food Security (H2020-SFS-2018-2020)
- Topic: **Food Systems Africa (LC-SFS-34-2019)**
- Eligibility condition: Proposals need to ensure the commitment and participation of a variety of partners established in the EU and in Africa

Official documents: :

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/lc-sfs-34-2019.html>



**Targeted  
Opening: 16  
October  
2018**

# Specific topics targeting cooperation with International partners

- Call: Blue Growth (H2020-BG-2018-2020)
- Topic: **The Future of Seas and Oceans Flagship Initiative (BG-07-2019-2020)**
- Sub-topic: Observations and forecasting
- Eligibility condition: International cooperation with Third Country partners is encouraged.

Official documents: :

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/bg-07-2019-2020.html>



**Targeted  
Opening: 16  
October  
2018**

# Potential topics of interest for participation of TC

- SFS-32-2018: Supporting microbiome coordination and the International Bioeconomy Forum
- SFS-33-2018: Support to the implementation of the EU-Africa Research and Innovation
- LC-SFS-34-2019: Food Systems Africa
- SFS-35-2019-2020: Sustainable Intensification in Africa
- CE-SFS-36-2020 - Diversifying farmers' income through small bio-based concepts
- EU-China FAB Flagship initiative
- SFS-37-2019: Integrated approaches to food safety controls across the food chain
- SFS-38-2018: Highly efficient management of soil quality and land resources
- CE-SFS-39-2019: High-quality organic fertilisers from biogas digestate
- **SFS-11-2018-2019: Anti-microbials and animal production**
- Partnership on Food and Nutrition Security & Sustainable Agriculture
- SFS-05-2018-2019-2020: New and emerging risks in plant health
- SFS-06-2019-2020: Stepping up integrated pest management
- SFS-14-2018-2019: Personalized Nutrition
- SFS-16-2018: Towards healthier and sustainable food
- **SFS-12-2019: A vaccine against African swine fever**
- **SFS-31-2019: ERANETs in agri-food**







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

## Societal Challenge 3: Secure, clean and efficient energy

Research and  
Innovation



## **Main call group:** BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE

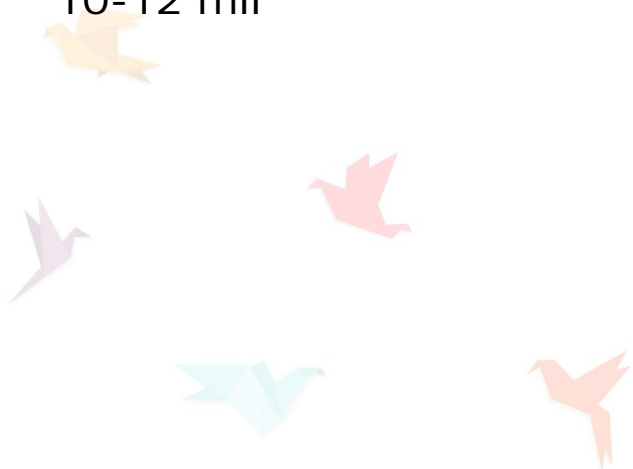
LC-SC3-RES-1-2019-2020: Developing the next generation of renewable energy technologies. RIA 2-5 mil

LC-SC3-RES-25-2020: International cooperation for Research and Innovation on advanced biofuels and alternative renewable fuels (2020)

LC-SC3-ES-3-2018-2020: Integrated local energy systems (Energy islands). IA 5-6 mil

CE-SC3-NZE-2-2018: Conversion of captured CO<sub>2</sub>. RIA 3-4 mil

LC-SC3-NZE-5-2019-2020: Low carbon industrial production using CCUS. IA 10-12 mil





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

## Societal Challenge 5: Climate action, environment, resource efficiency and raw Materials

Research and  
Innovation



# BASIC FACTS ON THE CHALLENGE IN WP2018-2020

## *Horizon 2020 Pillar: Societal Challenges 5 (SC5)*



**Work Programme 2018-2020 Part 12:  
Climate action, environment, resource  
efficiency and raw materials**

## *Main call groups:*



**Building a low-carbon, climate resilient  
future: climate action in support of the  
Paris Agreement  
(LC-CLA, total 8 topics)**

**Greening the economy in line with the  
Sustainable Development Goals  
(SC5, total 21 topics)**

9 topics

1,1 MEUR total budget



# Specific topics targeting cooperation with International partners

- Call: Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement (LC-CLA)
- Topic: **Human dynamics of climate change (LC-CLA-05-2019)**
  - a) **Climate services for Africa**
  - b) **Climate and human migration**
- Eligibility condition: For both of the sub-topics, international cooperation is encouraged.

Official documents: :

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/lc-cla-05-2019.html>



**Targeted  
Opening: 14  
November  
2018**



# Specific topics targeting cooperation with International partners

- Call: Greening the economy in line with the Sustainable Development Goals
- Topic: **Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes (CE-SC5-07-2018-2019-2020)**
- Eligibility condition: International cooperation is encouraged.

Official documents: :

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ce-sc5-07-2018-2019-2020.html>



**Targeted  
Opening: 14  
November  
2018**

## Europe in a changing world

- MIGRATION-01-2019: Understanding migration mobility patterns: elaborating mid and long-term migration scenarios. RIA 3 mil
- MIGRATION-02-2018: Towards forward-looking migration governance: addressing the challenges, assessing capacities and designing future strategies. RIA 3 mil
- MIGRATION-03-2019: Social and economic effects of migration in Europe and integration policies. RIA 3 mil
- MIGRATION-05-2018-2020: Mapping and overcoming integration challenges for migrant children. RIA 3 mil
- DT-MIGRATION-06-2018-2019: Addressing the challenge of migrant integration through ICT-enabled solutions. IA 4-6 mil
- MIGRATION-07-2019: International protection of refugees in a comparative perspective<sup>14</sup>. RIA 3 mil
- MIGRATION-08-2018: Addressing the challenge of forced displacement. RIA 3 mil

## Secure societies

- SU-INFRA01-2018-2019-2020: Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe. IA-7/8 mil
- SU-DRS05-2019: Demonstration of novel concepts for the management of pandemic crises IA EUR 10 million

## Science with and for society

- SwafS-12-2019: The gender perspective of science, technology and innovation (STI) in dialogue with third countries. RIA-EUR 2 million
- SwafS-14-2018-2019: Supporting the development of territorial Responsible Research and Innovation. CSA-2Million

# JOIN NOW!!!

**The new Horizon 2020 Work Programme and Calls for 2018/2020 are open for application!**

<http://ec.europa.eu/programmes/horizon2020/en>

**Non-EU Expert Evaluators Needed!**

<https://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>



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

## Success Stories from Lebanon

Name UNIT xx  
Organisation - DG

Research and  
Innovation



# LEAP-Agri: A long term EU-Africa research and innovation partnership on food and nutrition security and sustainable agriculture

Topic: H2020-EU.3.2.2. - Sustainable and competitive agri-food sector for a safe and healthy diet

- **Duration** 2016-2021
- Budget: EUR 33 049 448/ **EU contribution:** EUR 10 906 317,84
- Objective: to fulfil the ambition of the Europe Africa dialogue in Science and Technology (the HLPD) to launch a joint flagship initiative on its chosen priority area: Food and Nutrition Security and Sustainable Agriculture (FNSSA). This partnership will increase investments in research and innovation through coordinated bi-regional (EU/Africa) mechanisms aimed at reducing fragmentation

**Partners:** 30, **Coordinator** AGENCE NATIONALE DE LA RECHERCHE France

## Approach:

- ✓ preparation and implementation of a joint call for proposals for collaborative R&I projects between European and African partners
- ✓ identification and test of innovative instruments for alignment and collaboration in research, innovation, capacity strengthening and infrastructure development, especially targeting the implication - together with the national research agencies - of foundations, development agencies, private sector, and civil-society organizations

# Odyssea: Operating a network of integrated observatory systems in the Mediterranean sea

<b>Instrument</b>	RIA - Research and Innovation action
<b>Partners</b>	28 from GR, IS, IT, UK, TN, DZ, NL,TR, ES, EGY, FR, MA,PT,DE
<b>Coordinator</b>	DEMOCRITUS UNIVERSITY OF THRACE, Greece
<b>Local Partners</b>	SARL NORD SUD VENTURES
<b>EU contribution</b>	EUR 8 398 716
<b>Duration</b>	2017-2021
<b>Objectives:</b>	ODYSSEA will develop, operate and demonstrate an interoperable and cost-effective platform that fully integrates networks of observing and forecasting systems across the Mediterranean basin, addressing both the open sea and the coastal zone. The platform will collect its data from the many databases of Mediterranean EU and non-EU countries and will develop, operate and demonstrate an interoperable and cost-effective platform that fully integrates networks of observing and forecasting systems across the Mediterranean basin, addressing both the open sea and the coastal zone.



# 5TOI\_4EWAS: Quintuple Helix Approach to Targeted Open Innovation in Energy, Water, Agriculture in the South Mediterranean Neighborhood

<b>Instrument</b>	CSA - Coordination and support action
<b>Partners:</b>	25 from IT, FR, DE, BE, GR, PA, LB, TN, DZ, MA, EGY, TR, JO, LBY, ES
<b>Coordinator</b>	Universitat autonoma de Barcelona
<b>Local partner</b>	Agence nationale de valorisation des resultats de la recherche et du developpement technologique; Institut national de la recherche agronomique d' Algerie
<b>EU contribution</b>	EUR 1 949 644
<b>Duration</b>	2016-2019
<b>Objectives</b>	The project will enhance and support regional smart specialization and development by increasing research capacity, effective mobility of young innovators/researchers and shared knowledge to improve their participation in the EU research area.

# Thank you!

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

Participant Portal [www](http://www)

