Horizon 2020 – The Framework Programme for Research and Innovation

Horizon 2020 commenced in January 2014 as the new Framework Programme to implement the Innovation Union with research and innovation funds of €80 billion from 2014 – 2020. Horizon 2020 addresses all research and innovation funding that was previously provided through the Framework Programmes for Research and Technical Development (e.g. FP7), Competitiveness and Innovation Programme (CIP) and European Institute of Innovation and Technology.

Support proposed for Research and Innovation under Horizon 2020 includes:

- Strengthening research in Science
- Strengthening Industrial leadership in Innovation, including investment in key technologies, access to capital and support for SMEs
- Address Societal challenges, such as climate change, sustainable transport and mobility, affordable renewal energy, food security, ageing population

This Guide to Horizon 2020 provides an overview of Calls, themes and deadlines from 2020 Calls for Proposals within the **Marie Curie, eInfrastructures**, **Leadership in Enabling and Industrial Technologies** and each of the **Societal Challenges** (Health, Food Security and Agriculture, Energy, Transport, Climate action and resource efficiency, Inclusive and Reflective Societies, Secure Societies) Work Programmes. The individual Work Programmes for 2018 - 2020 for each thematic area were initially published on 27 October 2017, with the updated version for 2020 published on 02 July 2019. Please find links to these work programmes within the relevant sections in this Guide.

Horizon 2020 is fully open to International Cooperation. African research institutions can participate as part of International Consortia with partners from Europe to apply for funding as part of an international project addressing the challenges published in the Work Programme.

ICT is a horizontal activity that is included across a number of Work Programmes within LEIT and within Societal Challenges Work Programmes. Download Guide to ICT-related Activities in 2018-2020 Work Programmes

Please visit the Horizon 2020 section within the Participants portal to download the Proposers Guide and specific templates to prepare proposals for submission under Horizon 2020 2018 calls within specific Marie Curie, eInfrastructures, LEIT and Societal Challenges themes.

Innovation Union	*http://ec.europa.eu/research/innovation-union/index_en.cfm*
Guide to ICT-related Activities in H2020 2018-20 Work Programmes	*http://www.ist-africa.org/home/files/H2020_Guide_ICTrelated-activities_WP2018-20.pdf*
Horizon 2020 Calls – Participants Portal	*http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html*
IST-Africa Guide to 2019 Calls within Horizon 2020	*http://www.ist-africa.org/home/files/IST-Africa_Guide_2019Calls_Horizon2020.pdf*
IST-Africa Guide to 2020 Calls within Horizon 2020	*http://www.ist-africa.org/home/files/IST-Africa_Guide_2020Calls_Horizon2020.pdf*

Table of Contents

I. Excellent Science

With the aim of increasing excellence in science, it is envisaged that Horizon 2020 will support frontier research, collaborative research on Future and Emerging Technologies (FET), training and career development through Marie Curie Actions and research infrastructures (including eInfrastructures).

Future and Emerging Technologies (FET)	https://ec.europa.eu/programmes/horizon2020/en/h2020-section/future-and-emerging-technologies-fet-open
Marie Curie Actions	https://ec.europa.eu/research/mariecurieactions/msca-actions_en
Research infrastructures (including eInfrastructures)	http://ec.europa.eu/research/infrastructures/index_en.cfm

Marie Curie

Marie Sklodowska-Curie Work Programme 2018 - 2020	http://www.ist-africa.org/home/files/h2020-wp1820-msca_en.pdf

Marie Sklodowska-Curie Innovative Training Networks (ITN)

Single Stage Calls 2020 - Deadline 14 January 2020	
MSCA-ITN-2020 (MSCA-ITN-ETN, MSCA-ITN-EID, MSCA-ITN-EJD)	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/msca-itn-2020

Marie Sklodowska-Curie Research and Innovation Staff Exchange (RISE)

Single Stage Calls 2020 - Deadline 28 April 2020	
MSCA-RISE-2020 (MSCA-RISE)	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/msca-rise-2020

Individual Fellowships (IF)

Single Stage Calls 2020 - Deadline 09 September 2020	
MSCA-IF-2020 (MSCA-IF-EF-CAR, MSCA-IF-EF-RI, MSCA-IF-EF-ST, MSCA-IF-EF-SE, MSCA-IF-GF)	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/msca-if-2020

MSCA-COFUND-2020: Co-funding of regional, national and international programmes

Single Stage Calls 2020 - Deadline 29 September 2020	
MSCA-COFUND-2020 (MSCA-COFUND-DP)	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/msca-cofund-2020
Single Stage Calls 2020 - Deadline 09 January 2020	
MSCA-NIGHT-2020 (CSA)	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/msca-night-2020

Research Infrastructures Work Programme

eInfrastructures 2018 – 2020 Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-infrastructures_en.pdf*
Development and long-term sustainability of new pan-European research infrastructures (INFRADEV)	
Single stage calls 2020 - Deadline 12 November 2020	
INFRADEV-01-2019-2020 (RIA) Design Studies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/infradev-01-2019-2020*
Implementing the European Open Science Cloud	
Single stage calls 2020 - Deadline 22 April 2020	
INFRAEOSC-03-2020(RIA): Integration and consolidation of the existing pan-European access mechanism to public research infrastructures and commercial services through the EOSC Portal	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/infraeosc-03-2020*
INFRAEOSC-07-2020(RIA): Increasing the service offer of the EOSC Portal	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/infraeosc-07-2020*
Integrating and opening research infrastructures of European interest	
Single stage calls 2020 Deadline 17 March 2020	
INFRAIA-02-2020(RIA): Integrating Activities for Starting Communities	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/infraia-02-2020*
INFRAIA-03-2020(RIA): Pilot for a new model of Integrating Activities	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/infraia-03-2020*
European Data Infrastructure	
Single stage calls 2020 Deadline 13 November 2019	
INFRAEDI-05-2020: Centres of Excellence in exascale computing	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/infraedi-05-2020*
Demonstrating the role of Research Infrastructures in the translationof Open Science into Open Innovation	
Single stage calls 2020 Deadline 17 March 2020	
INFRAINNOV-03-2020(RIA): Co-Innovation platform for research infrastructure technologies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/infrainnov-03-2020*
INFRAINNOV-04-2020(RIA): Innovation pilots	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/infrainnov-04-2020*
Support to policy and international cooperation (INFRASUPP)	
Single stage calls 2020 Deadline 17 March 2020	
INFRASUPP-02-2020(CSA): Strengthening the human capital of research infrastructures	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/infrasupp-02-2020*

II. Leadership in Enabling and Industrial Technologies

With the aim to make Europe a more attractive location for investment in research and innovation, it is envisaged that Horizon 2020 will build

- Leadership in enabling and industrial technologies with dedicated support for ICT, nanotechnologies, advanced materials, biotechnology, advanced manufacturing and processing, and space, while also providing support for cross-cutting actions to capture the accumulated benefits from combining several Key Enabling Technologies;
- Facilitate access to risk finance;
- Provide support for innovation in SMEs.

LEIT ICT Work Programme 2018 – 2020	*http://www.ist-africa.org/home/files/h2020-wp1820-leit-ict_en.pdf*

ICT related challenges under the 2018 - 2020 Work Programme include Key-enabling Technologies (Micro-nano-electronics and photonics), Data Infrastructure, 5G and Next Generation Internet.

Opportunities for international cooperation include:

- ICT-58-2020 (IA) International partnership building between European and African innovation hubs - 22 April 2020

Leadership in Enabling and Industrial Technologies 2020 Calls

ICT- Information and Communications Technologies	*http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-ict-2018-2020.html*
Artificial Intelligence and Technologies for Digitising European Industry and Economy	
Single Stage Calls 2020 - Deadline 16 January 2020	
ICT-38-2020 (RIA) Artificial intelligence for manufacturing	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-38-2020*
ICT-38-2020 (CSA) Artificial intelligence for manufacturing	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-38-2020*
ICT-50-2020 (CSA) Software Technologies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-50-2020*
ICT-50-2020 (RIA) Software Technologies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-50-2020*
Single Stage Calls 2020 - Deadline 22 April 2020	
ICT-46-2020 (RIA) Robotics in Application Areas and Coordination & Support	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-46-2020*
ICT-46-2020 (IA) Robotics in Application Areas and Coordination & Support	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-46-2020*
ICT-46-2020 (CSA) Robotics in Application Areas and Coordination & Support	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-46-2020*

ICT-47-2020 (RIA) Research and Innovation boosting promising robotics applications	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-47-2020
ICT-49-2020 (IA) Artificial Intelligence on demand platform	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-49-2020
ICT-36-2020 (RIA) Disruptive photonics technologies	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-36-2020
ICT-37-2020 (IA) Advancing photonics technologies and application driven photonics components and the innovation ecosystem	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-37-2020
ICT-37-2020 (RIA) Advancing photonics technologies and application driven photonics components and the innovation ecosystem	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-37-2020
ICT-37-2020 (CSA) Advancing photonics technologies and application driven photonics components and the innovation ecosystem	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-37-2020
European Data Infrastructure: HPC, Big Data and Cloud technologies	
Single Stage Calls 2020 - Deadline 16 January 2020	
ICT-51-2020 (CSA) Big Data technologies and extreme-scale analytics	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-51-2020
ICT-51-2020 (RIA) Big Data technologies and extreme-scale analytics	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-51-2020
Single Stage Calls 2020 - Deadline 22 April 2020	
ICT-40-2020 (CSA) Cloud Computing: towards a smart cloud computing continuum	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-40-2020
ICT-40-2020 (RIA) Cloud Computing: towards a smart cloud computing continuum	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-40-2020
5G	
Single Stage Calls 2020 - Deadline 16 January 2020	
ICT-42-2020 (IA) 5G PPP – 5G core technologies innovation	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-42-2020
ICT-42-2020 (CSA) 5G PPP – 5G core technologies innovation	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-42-2020
Single Stage Calls 2020 - Deadline 22 April 2020	
ICT-41-2020 (IA) 5G PPP – 5G innovations for verticals with third party services	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-41-2020
ICT-52-2020 (RIA) 5G PPP – Smart Connectivity beyond 5G	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-52-2020

Next Generation Internet (NGI)

Single Stage Calls 2020 - Deadline 16 January 2020	
ICT-54-2020 (RIA) Blockchain for the Next Generation Internet	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-54-2020*
ICT-56-2020 (CSA) Next Generation Internet of Things	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-56-2020*
ICT-56-2020 (RIA) Next Generation Internet of Things	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-56-2020*
ICT-44-2020 (IA) Next Generation Media	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-44-2020*
ICT-44-2020 (CSA) Next Generation Media	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-44-2020*
Single Stage Calls 2020 - Deadline 22 April 2020	
ICT-57-2020 (RIA) An empowering, inclusive Next Generation Internet	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-57-2020*

International Cooperation activities

Single Stage Calls 2020 - Deadline 22 April 2020	
ICT-58-2020 (IA) International partnership building between European and African innovation hubs	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-58-2020*
ICT-58-2020 (CSA) International partnership building between European and African innovation hubs	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-58-2020*

Digitising and transforming European industry and services: digital innovation hubs and platforms

Support to Hubs

Single Stage Calls 2020 - Deadline 22 April 2020	
DT-ICT-04-2020 (IA) Photonics Innovation Hubs	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-ict-04-2020*

Platforms and Pilots

Single Stage Calls 2020 - Deadline 22 April 2020	
DT-ICT-09-2020 (IA) Boost rural economies through cross-sector digital service platforms	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-ict-09-2020*
DT-ICT-12-2020 (IA) AI for the smart hospital of the future	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-ict-12-2020*

Cyber Security

Single Stage Calls 2020 - Deadline 19 November 2019	
SU-ICT-02-2020 (RIA) Building blocks for resilience in evolving ICT systems	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-ict-02-2020*

III. Societal Challenges

As part of addressing the Europe 2020 strategy, funding will focus on the following challenges:

- Health, demographic change and wellbeing – Download Work Programme
- Food security, sustainable agriculture, marine and maritime research, and the bio-economy - Download Work Programme
- Secure, clean and efficient energy - Download Work Programme
- Smart, green and integrated transport - Download Work Programme
- Climate action, resource efficiency and raw materials - Download Work Programme
- Inclusive, innovative and reflective societies – Download Work Programme
- Secure Societies – Download Work Programme

Health, Demographic Change and Wellbeing Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-health_en.pdf*
Food Security, Sustainable Agriculture, Marine and Maritime Research, and the Bio-Economy Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-food_en.pdf*
Secure, Clean and Efficient Energy Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-energy_en.pdf*
Smart, Green and Integrated Transport Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-transport_en.pdf*
Climate Action, Resource Efficiency and Raw Materials Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-climate_en.pdf*
Inclusive, Innovative and Reflective Societies Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-societies_en.pdf*
Secure Societies Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-security_en.pdf*

Societal Challenge 1: Health Demographic Change and Wellbeing

Health, Demographic Change and Wellbeing Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-health_en.pdf*

Opportunities for international cooperation include:

- SC1-BHC-19-2019: Implementation research for maternal and child health - Research and Innovation action, deadlines: First Stage: **02 October 2018**; Second Stage: 16 April 2019

Societal Challenge 1: Health Demographic Change and Wellbeing	*http://ec.europa.eu/programmes/horizon2020/en/h2020-section/health-demographic-change-and-wellbeing*
Personalised medicine	
Single Stage Calls 2020 - Deadline 07 April 2020	
SC1-HCO-01-2018-2019-2020 (CSA); Actions in support of the International Consortium for Personalised Medicine	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search*
SC1-BHC-06-2020(RIA) : Digital diagnostics – developing tools for supporting clinical decisions by integrating various diagnostic data	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-06-2020*
SC1-HCO-03-2020(CSA): Bridging the divide in health research and innovation – boosting return on investment	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-03-2020*
SC1-HCO-14-2020(ERA-NET Cofund): Sustained collaboration of national and regional programmes in cancer research	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-14-2020*
SC1-HCO-16-2020(ERA-NET Cofund) : Sustained collaboration of national and regional programmes in research on brain-related diseases and disorders of the nervous system	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-16-2020*
SC1-HCO-17-2020(CSA): Coordinating and supporting research on the human microbiome in Europe and beyond	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-17-2020*
Innovative health and care industry	
Two stage calls 2020 - Stage 1 Deadline: 24 Sept 2019, Stage 2 Deadline: 07 April 2020	
SC1-BHC-08-2020(RIA): New interventions for Non-Communicable Diseases	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-08-2020*
Single stage calls 2020 - Deadline 07 April 2020	
SC1-BHC-11-2020(RIA): Advancing the safety assessment of chemicals without the use of animal testing	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-11-2020*
SC1-HCO-18-2020(CSA): Developing methodological	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-hco-18-2020*

approaches for improved clinical investigation and evaluation of high-risk medical devices	
SC1-HCO-19-2020(CSA): Reliable and accessible information on cell and gene-based therapies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-hco-19-2020*

Infectious diseases and improving global health

Single stage calls 2020- Deadline 07 April 2020	
SC1-BHC-17-2020(RIA): Global Alliance for Chronic Diseases (GACD) - Prevention and/or early diagnosis of cancer	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-17-2020*
SC1-BHC-20A-2020(PCP): Pre-commercial procurement (PCP) for integrated care solutions	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-20a-2020*
SC1-BHC-20B-2020(PPI): Public procurement of innovative solutions (PPI) for diagnostics for infectious diseases	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-20b-2020*
SC1-BHC-33-2020(RIA): Addressing low vaccine uptake	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-33-2020*
SC1-BHC-34-2020(RIA): New approaches for clinical management and prevention of resistant bacterial infections in high prevalence settings	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-34-2020*
SC1-BHC-35-2020(RIA): Creation of a European wide sustainable network for harmonised large-scale clinical research studies for infectious diseases	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-35-2020*
SC1-HCO-07-2020(ERA-NET-Cofund) ; to support the Joint Programming Initiative on Antimicrobial resistance (JPIAMR)	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-hco-07-2020*

Innovative health and care systems - Integration of care

Two stage calls 2020 - Stage 1 Deadline: 24 Sept 2019, Stage 2 Deadline: 07 April 2020	
SC1-BHC-24-2020(RIA): Healthcare interventions for the management of the elderly multimorbid patient	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-24-2020*
Single stage calls 2020- Deadline 07 April 2020	
SC1-BHC-37-2020 (RIA-LS): Towards the new generation of clinical trials – trials methodology research	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-37-2020*
SC1-HCO-20-2020(CSA) : Coordination of clinical research activities of the European Reference Networks	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-20-2020*

Decoding the role of the environment, including climate change, for health and well-being

Two stage calls 2020 - Stage 1 Deadline: 24 Sept 2019, Stage 2 Deadline: 07 April 2020	
SC1-BHC-29-2020(RIA): Innovative actions for improving urban health and wellbeing - addressing environment, climate and socioeconomic factors	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-29-2020*
Single stage calls 2020- Deadline 07 April 2020	
SC1-BHC-36-2020(RIA): Micro- and nano-plastics in our	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-bhc-36-2020*

environment: Understanding exposures and impacts on human health	
Supporting the digital transformation in health and care	
Two stage calls 2020 - Stage 1 Deadline: 24 Sept 2019, Stage 2 Deadline: 07 April 2020	
SC1-DTH-13-2020(RIA): Implementation research for scaling up and transfer of innovative solutions involving digital tools for people-centred care	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-dth-13-2020*
Single stage calls 2020- Deadline 07 April 2020	
SC1-DTH-12-2020(RIA): Use of Real-World Data to advance research on the management of complex chronic conditions	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-dth-12-2020*
SC1-HCC-10-2020(CSA): Towards a Health research and innovation Cloud: Capitalising on data sharing initiatives in health research	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-hcc-10-2020*
Digital transformation in Health and Care	
Single stage calls 2020- Deadline 13 November 2020	
SC1-HCC-06-2020(CSA): Coordination and Support to better data and secure cross-border digital infrastructures building on European capacities for genomics and personalised medicine	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-hcc-06-2020*
SC1-HCC-07-2020(CSA): Support for European eHealth Interoperability roadmap for deployment	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-hcc-07-2020*
Single stage calls 2020- Deadline 22 April 2020	
SC1-DTH-02-2020(RIA): Personalised early risk prediction, prevention and intervention based on Artificial Intelligence and Big Data technologies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-dth-02-2020*
SC1-DTH-04-2020(RIA): International cooperation in smart living environments for ageing people	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-dth-04-2020*
SC1-DTH-06-2020(RIA): Accelerating the uptake of computer simulations for testing medicines and medical devices	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-dth-06-2020*
SC1-DTH-14-2020(PCP): Pre-commercial Procurement for Digital Health and Care Solutions	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-dth-14-2020*
SC1-HCC-08-2020(CSA): Scaling up innovation for active and healthy ageing	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-hcc-08-2020*
SC1-HCC-09-2020(CSA): Supporting deployment of eHealth in low and lower middle income countries in Africa for better health outcomes	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc1-hcc-09-2020*
Trusted digital solutions and Cybersecurity in Health and Care	

Focus Area on Digitising and transforming European industry and services	
Single stage calls 2020- Deadline 13 November 2019	
DT-TDS-05-2020(RIA): AI for Health Imaging	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-tds-05-2020*
Single stage calls 2020- Deadline 22 April 2020	
DT-TDS-04-2020(RIA): AI for Genomics and Personalised Medicine	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-tds-04-2020*

Societal Challenge 2: Food security, sustainable agriculture, marine and maritime research, and the bio-economy

Food Security, Sustainable Agriculture, Marine and Maritime Research, and the Bio-Economy Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-food_en.pdf*

This Work Programme will leverage research and innovation to address five challenges:
- 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.

Opportunities for international cooperation include:

- SFS-35-2019-2020(RIA): Sustainable Intensification in Africa -deadlines: 22 Jan 2020 (First Stage) 08 Sep 2020 (Second Stage)
- CE-SFS-36-2020(RIA): Diversifying revenue in rural Africa through bio-based solutions -deadlines: 22 Jan 2020 (First Stage) 08 Sep 2020 (Second Stage)

Societal Challenge 2: Food security, sustainable agriculture, marine and maritime research, and the bio-economy	*http://ec.europa.eu/programmes/horizon2020/en/h2020-section/food-security-sustainable-agriculture-and-forestry-marine-maritime-and-inland-water*
Sustainable Food Security	
From functional ecosystems to healthy food	
Two stage calls 2020- Stage 1 Deadline: 22January 2020, Stage 2 Deadline: 8 September 2020	
SFS-01-2018-2019-2020(RIA): Biodiversity in action: across farmland and the value chain	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sfs-01-2018-2019-2020*
SFS-02-2020(RIA): Healthy terrestrial livestock microbial ecosystems for sustainable production	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sfs-02-2020*
SFS-05-2018-2019-2020(RIA): New and emerging risks to plant health	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sfs-05-2018-2019-2020*
SFS-10-2020(RIA): Epidemiology of non-EU-regulated contagious animal diseases: from integrated data collection to prioritisation	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sfs-10-2020*
SFS-13-2020(RIA): Genome and epigenome enabled breeding in terrestrial livestock	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sfs-13-2020*

Single stage calls 2020 - Deadline 22 January 2020	
SFS-04-2019-2020(IA): Integrated health approaches and alternatives to pesticide use	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sfs-04-2019-2020*
SFS-06-2018-2020(IA): Stepping up integrated pest management	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sfs-06-2018-2020*

Environment and climate-smart food production and consumption

Two stage calls 2019 - Stage 1 Deadline: 22 January 2020, Stage 2 Deadline: 8 September 2020	
SFS-21-2020(RIA): Emerging challenges for soil management	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sfs-21-2020*
LC-SFS-22-2020(RIA): Forest soils Research and Innovation Action	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sfs-22-2020*

Building capacities

Two stage calls 2019 - Stage 1 Deadline: 22 January 2020, Stage 2 Deadline: 8 September 2020	
SFS-30-2018-2019-2020(RIA): Agri-Aqua Labs	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sfs-30-2018-2019-2020*
Single stage calls 2020 - Deadline 22 January 2020	
SFS-28-2018-2019-2020(IA): Genetic resources and pre-breeding communities	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sfs-28-2018-2019-2020*

Targeted international cooperation

EU-Africa Partnership on Food and Nutrition Security and Sustainable Agriculture (FNSSA)

Two stage calls 2020 - Stage 1 Deadline: 22 January 2020, Stage 2 Deadline: 8 September 2020	
SFS-35-2019-2020(RIA): Sustainable Intensification in Africa	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sfs-35-2019-2020*
CE-SFS-36-2020(RIA): Diversifying revenue in rural Africa through bio-based solutions	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-sfs-36-2020*

EU-China FAB Flagship initiative

Two stage calls 2020 - Stage 1 Deadline: 22 January 2020, Stage 2 Deadline: 8 September 2020	
SFS-40-2020(RIA): Healthy soils for healthy food production	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sfs-40-2020*

Blue Growth

Two stage calls 2020 - Stage 1 Deadline: 22 January 2020, Stage 2 Deadline: 8 September 2020	
BG-10-2020(RIA): Fisheries in the full ecosystem context	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/bg-10-2020*
BG-11-2020(RIA): Towards a productive, healthy, resilient, sustainable and highly-valued Black Sea	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/bg-11-2020*
Single stage calls 2020 - Deadline 22 January 2020	
BG-07-2019-2020(IA-LS): The Future of Seas and Oceans Flagship Initiative	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/bg-07-2019-2020*

Rural Renaissance

From farm to society: understanding dynamics and modernising policies

Two stage calls 2020 - Stage 1 Deadline: 22 January 2020, Stage 2 Deadline: 8 September 2020	
RUR-21-2020(RIA): Agricultural markets and international trade in the context of sustainability objectives Organising sustainable food and non-food value chains under changing conditions	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/rur-21-2020
CE-RUR-08-2018-2019-2020(RIA): Closing nutrient cycles	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-rur-08-2018-2019-2020
Single stage calls 2020 - Deadline 22 January 2020	
RUR-05-2020(CSA): Connecting consumers and producers in innovative agri-food supply chains	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/rur-05-2020
RUR-06-2020(IA): Innovative agri-food value chains: boosting sustainability-oriented competitiveness	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/rur-06-2020
RUR-07-2020(IA): Reducing food losses and waste along the agri-food value chain	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/rur-07-2020

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

Single stage calls 2020 - Deadline 22 January 2020	
CE-RUR-08-2018-2019-2020(IA): Closing nutrient cycles	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-rur-08-2018-2019-2020
Two stage calls 2020 - Stage 1 Deadline: 22 January 2020, Stage 2 Deadline: 8 September 2020	
LC-RUR-11-2019-2020(RIA): Sustainable wood value chains	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-rur-11-2019-2020

Boosting innovation and enhancing the human and social capital in rural areas

Single stage calls 2020 - Deadline 22 January 2020	
RUR-15-2018-2019-2020(CSA): Thematic networks compiling knowledge ready for practice.	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/rur-15-2018-2019-2020

Food and Natural Resources

Two stage calls 2020 - Stage 1 Deadline: 22 January 2020, Stage 2 Deadline: 8 September 2020	
FNR-05-2020(RIA): Husbandry for quality and sustainability	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-05-2020
FNR-11-2020(RIA): Prospecting aquatic and terrestrial natural biological resources for biologically active compounds	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-11-2020
FNR-12-2020(RIA): Industrial microbiomes – learning from nature	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-12-2020
LC-FNR-13-2020(RIA): Bio-based industries leading the way in turning carbon dioxide emissions into chemicals	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-fnr-13-2020
FNR-16-2020(RIA): Enzymes for more environment-friendly consumer products	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-16-2020

Single stage calls 2020 - Deadline 22 January 2020	
FNR-01-2020(CSA): Strengthening the European agro-ecological research and innovation ecosystem	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-01-2020*
FNR-02-2020(CSA): Developing long-term monitoring and evaluation frameworks for the Common Agricultural Policy	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-02-2020*
FNR-03-2020(CSA): A comprehensive vision for urban agriculture	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-03-2020*
FNR-04-2020(CSA): Towards a European research and innovation roadmap on soils and land management	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-04-2020*
LC-FNR-06-2020(CSA): Defossilising agriculture – solutions and pathways for fossil-energy-free farming	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-fnr-06-2020*
LC-FNR-06-2020(IA): Defossilising agriculture – solutions and pathways for fossil-energy-free farming	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-fnr-06-2020*
CE-FNR-07-2020(IA): FOOD 2030 - Empowering cities as agents of food system transformation	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-fnr-07-2020*
FNR-08-2020(CSA): Supporting the food safety systems of the future	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-08-2020*
CE-FNR-09-2020(IA): Pilot action for the removal of marine plastics and litter	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-fnr-09-2020*
FNR-10-2020(CSA): Public engagement for the Bioeconomy	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-10-2020*
CE-FNR-14-2020(IA): Innovative textiles – reinventing fashion	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-fnr-14-2020*
CE-FNR-15-2020(CSA): A network of European bioeconomy clusters to advance bio-based solutions in the primary production sector	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-fnr-15-2020*
CE-FNR-17-2020(IA): Pilot circular bio-based cities – sustainable production of bio-based products from urban biowaste and wastewater	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-fnr-17-2020*
FNR-18-2020(CSA): Sustainability of bio-based products – international governance aspects and market update	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/fnr-18-2020

Societal Challenge 3: Secure, Clean and Efficient Energy

Secure, Clean and Efficient Energy Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-energy_en.pdf*

This work programme is focused on four focal areas: Building a low-carbon, climate resilient future; Connecting economic and environmental gains - the Circular Economy; Digitising and transforming European industry and services and Boosting the effectiveness of the Security Union.

Opportunities for international cooperation include:

- LC-SC3-JA-5-2020(RIA): Long Term EU-Africa Partnership for Research and Innovation actions in the area of renewable energy - deadline 26 March 2020

Societal Challenge 3: Secure, Clean and Efficient Energy	*http://ec.europa.eu/programmes/horizon2020/en/h2020-section/secure-clean-and-efficient-energy*
Building a Low-Carbon, Climate resilient Future: Secure, Clean and efficient Energy	
Buildings in Energy Transition B4E	
Single stage calls 2020 - Deadline 15 January 2020	
LC-SC3-B4E-1-2020(CSA): Towards highly energy efficient and decarbonised buildings	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-1-2020*
LC-SC3-B4E-5-2020(IA): Integrated design concepts for energy-efficient ICT in buildings	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-5-2020*
LC-SC3-B4E-6-2020(IA): Big data for buildings	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-6-2020*
LC-SC3-B4E-7-2020(CSA): European building stock data 4.0	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-7-2020*
LC-SC3-B4E-8-2020(IA): Renewable and energy efficient solutions for heating and/or cooling, and domestic hot water production in multi-apartment residential buildings	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-8-2020*
LC-SC3-B4E-9-2020(CSA): Support to the coordination of European smart buildings innovation community	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-9-2020*
LC-SC3-B4E-10-2020(IA): Self-assessment and self-optimisation of buildings and appliances for a better energy performance	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-10-2020*
LC-SC3-B4E-12-2020(CSA): National roundtables to implement the Smart Finance for Smart Buildings initiative	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-12-2020*
Single stage calls 2020 - Deadline 10 Septmber 2020	
LC-SC3-B4E-2-2020(CSA): Stimulating demand for sustainable energy skills in the building sector	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-2-2020*
LC-SC3-B4E-3-2020(IA): Upgrading smartness of existing buildings through innovations for legacy equipment	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-3-2020*
LC-SC3-B4E-4-2020(CSA): Next-generation of Energy Performance Assessment and Certification	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-4-2020*

LC-SC3-B4E-11-2020(CSA): Financing for energy efficiency investments - Smart Finance for Smart Buildings	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-11-2020*
LC-SC3-B4E-12-2020(CSA): National roundtables to implement the Smart Finance for Smart Buildings initiative	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-12-2020*
LC-SC3-B4E-13-2020(CSA): Aggregation - Project Development Assistance	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-13-2020*
LC-SC3-B4E-14-2020(CSA): Enabling next-generation of smart energy services valorising energy efficiency and flexibility at demand-side	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-b4e-14-2020*
Global leadership in renewables	
Next Renewable energy solutions	
Single stage calls 2020 - Deadline 21 April 2020	
LC-SC3-RES-1-2019-2020(RIA): Developing the next generation of renewable energy technologies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search*
Single stage calls 2020 - Deadline 01 September 2020	
LC-SC3-RES-3-2020(RIA): International Cooperation with USA and/or China on alternative renewable fuels from sunlight for energy, transport and chemical storage	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-3-2020*
Renewable energy solutions for implementation at consumer scale	
Single stage calls 2020 - Deadline 11 December 2019	
LC-SC3-RES-9-2020(IA): Next generation of thin-film photovoltaic technologies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-9-2020*
LC-SC3-RES-19-2020(IA): Demonstration of innovative technologies for floating wind farms	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-19-2020*
LC-SC3-RES-33-2020(IA): Increase performance and reliability of photovoltaic plants	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-33-2020*
LC-SC3-RES-35-2020(IA): Reduce the cost and increase performance and reliability of CSP plants	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-35-2020*
Single stage calls 2020 - Deadline 26 March 2020	
LC-SC3-RES-10-2020(PCP): Pre-Commercial Procurement for a 100% Renewable Energy Supply	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-10-2020*
Single stage calls 2020 - Deadline 21 April 2020	
LC-SC3-RES-31-2020(RIA): Offshore wind basic science and balance of plant	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-31-2020*
LC-SC3-RES-32-2020(RIA): New test rig devices for accelerating ocean energy technology development	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-32-2020*
LC-SC3-RES-18-2020(RIA-LS): Advanced drilling and well completion techniques for cost reduction in geothermal energy	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-18-2020*

LC-SC3-RES-26-2020(RIA): Development of next generation renewable fuel technologies from CO2 and renewable energy (Power and Energy to Renewable Fuels)	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-26-2020*
Single stage calls 2020 - Deadline 1 September 2020	
LC-SC3-RES-20-2020(IA): Efficient combination of Concentrated Solar Power and desalination (with particular focus on the Gulf Cooperation Council (GCC) region)	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-20-2020*
LC-SC3-RES-34-2020(IA): Demonstration of innovative and sustainable hydropower solutions targeting unexplored small-scale hydropower potential in Central Asia	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-34-2020*
LC-SC3-RES-25-2020(RIA): International cooperation with Japan for Research and Innovation on advanced biofuels and alternative renewable fuels	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-25-2020*
Secure, clean and efficient energy	
Single stage calls 2020 - Deadline 19 December 2019	
LC-SC3-RES-27-2020(IA): Demonstration of advanced biofuels production from aquatic biomass	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-27-2020*
Single stage calls 2020 - Deadline 21 April 2020	
LC-SC3-RES-37-2020(RIA): Combined clean biofuel production and phytoremediation solutions from contaminated lands worldwide	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-37-2020*
Single stage calls 2020 - Deadline 1 September 2020	
LC-SC3-RES-36-2020(RIA): International cooperation with Canada on advanced biofuels and bioenergy	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-36-2020*
Market Uptake Support	
Single stage calls 2020 - Deadline 11 December 2019	
LC-SC3-RES-28-2018-2019-2020(CSA): Market Uptake support	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-28-2018-2019-2020*
Smart and clean energy for consumers	
Single stage calls 2020 - Deadline 15 January 2020	
LC-SC3-EC-4-2020(RIA): Socio-economic research: non-energy impacts and behavioural insights on energy efficiency interventions	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-ec-4-2020*
Single stage calls 2020 - Deadline 29 January2020	
LC-SC3-EC-3-2020(IA): Consumer engagement and demand response	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-ec-3-2020*
Single stage calls 2020 - Deadline 10 September 2020	
LC-SC3-EC-1-2018-2019-2020(CSA): The role of consumers in changing the market through informed decision and	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-ec-1-2018-2019-2020*

collective actions	
LC-SC3-EC-2-2018-2019-2020(CSA): Mitigating household energy poverty	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-ec-2-2018-2019-2020*
LC-SC3-EC-5-2020(CSA): Supporting public authorities in driving the energy transition	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-ec-5-2020*

Smart citizen-centred energy system

Single stage calls 2020 - Deadline 29 January 2020	
LC-SC3-ES-3-2018-2020(IA): Integrated local energy systems (Energy islands)	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-es-3-2018-2020*
LC-SC3-ES-4-2018-2020(IA): Decarbonising energy systems of geographical Islands	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-es-4-2018-2020*
LC-SC3-ES-5-2018-2020(IA): TSO – DSO – Consumer: Large-scale demonstrations of innovative grid services through demand response, storage and small-scale (RES) generation	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-es-5-2018-2020*
LC-SC3-ES-10-2020(IA): DC – AC/DC hybrid grid for a modular, resilient and high RES share grid development	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-es-10-2020*
LC-SC3-ES-11-2020(IA): Rapid Relief through Transitions on Islands	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-es-11-2020*
LC-SC3-ES-12-2020(IA): Integrated local energy systems (Energy islands): International cooperation with India	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-es-12-2020*

Smart Cities and Communities

Single stage calls 2020 - Deadline 29 January 2020	
LC-SC3-SCC-1-2018-2019-2020(IA): Smart Cities and Communities .	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-scc-1-2018-2019-2020*
Single stage calls 2020 - Deadline 1 September 2020	
LC-SC3-SCC-2-2020(ERA-NET-Cofund): Positive Energy Districts and Neighbourhoods for urban energy transitions	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-scc-2-2020*

Smart Airports

Single stage calls 2020 - Deadline 29 January 2020	
LC-SC3-SA-1-2020(IA): Smart Airports	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-sa-1-2020*

Enabling near-zero CO2 emissions from fossil fuel power plants and carbon intensive industries

Single stage calls 2020 - Deadline 1 September 2020	
LC-SC3-NZE-6-2020(RIA): Geological Storage Pilots	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-nze-6-2020*

Joint Actions

Single stage calls 2020 - Deadline 26 March 2020	
LC-SC3-JA-5-2020(RIA): Long Term EU-Africa Partnership for Research and Innovation actions in the area of renewable energy	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-ja-5-2020

Cross-cutting Issues

Single stage calls 2020 - Deadline 1 September 2020	
LC-SC3-CC-7-2020(RIA): European Energy and Climate Modelling Forum (2020-2024)	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-cc-7-2020
LC-SC3-CC-1-2018-2019-2020(RIA): Social Sciences and Humanities (SSH) aspects of the Clean-Energy Transition	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-cc-1-2018-2019-2020

Societal Challenge 4: Smart, Green and Integrated Transport

Smart, Green and Integrated Transport Work Programme	http://www.ist-africa.org/home/files/h2020-wp1820-transport_en.pdf

This work programme is structured in four broad lines of activities aiming at:

a) Resource efficient transport that respects the environment;

b) Better mobility, less congestion, more safety and security;

c) Global leadership for the European transport industry; and

d) Socio-economic and behavioural research and forward-looking activities for policy making.

These activities are addressed in this Work Programme by three Calls for proposals:

1. Mobility for Growth

2. Digitising and transforming European industry and services: Automated Road Transport

3. Building a low-carbon, climate resilient future: Green Vehicles

Societal Challenge 4: Smart, green and integrated transport	http://ec.europa.eu/programmes/horizon2020/en/h2020-section/smart-green-and-integrated-transport
Building a Low-Carbon, Climate Resilient Future: Low-Carbon And Sustainable Transport	
Two stage calls 2020- Stage 1 Deadline: 09 January 2020, Stage 2 Deadline: 8 April 2020	
LC-MG-1-12-2020(IA): Cities as climate-resilient, connected multimodal nodes for smart and clean mobility: new approaches towards demonstrating and testing innovative solutions	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-mg-1-12-2020

LC-MG-1-13-2020(RIA): Decarbonising long distance shipping	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-mg-1-13-2020*
LC-MG-1-14-2020(RIA): Understanding and mitigating the effects on public health of emerging non-regulated nanoparticle emissions issues and noise	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-mg-1-14-2020*
Single stage calls 2020 - Deadline 21 April 2020	
LC-MG-1-12-2020(CSA): Cities as climate-resilient, connected multimodal nodes for smart and clean mobility: new approaches towards demonstrating and testing innovative solutions	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-mg-1-12-2020*
LC-MG-1-15-2020(RIA): Towards global environmental regulation of supersonic aviation	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-mg-1-15-2020*
Safe, Integrated and Resilient Transport Systems	
Two stage calls 2020- Stage 1 Deadline: 09 January 2020, Stage 2 Deadline: 8 April 2020	
MG-2-10-2020(RIA): Enhancing coordination between Member States' actions in the area of infrastructure research with a particular focus on biodiversity and ameliorating environmental impacts and full automated infrastructure upgrade and maintenance	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-2-10-2020*
MG-2-11-2020(RIA): Network and traffic management for future mobility	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-2-11-2020*
MG-2-12-2020(RIA): Improving road safety by effectively monitoring working patterns and overall fitness of drivers	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-2-12-2020*
Single stage calls 2020 - Deadline 21 April 2020	
MG-2-10-2020(CSA): Enhancing coordination between Member States' actions in the area of infrastructure research with a particular focus on biodiversity and ameliorating environmental impacts and full automated infrastructure upgrade and maintenance	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-2-10-2020*
MG-2-13-2020(CSA): Coordination and support for an integrated freight transport and logistics system	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-2-13-2020*
MG-2-14-2020(CSA): The effects of automation on the transport labour force, future working conditions and skills requirements	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-2-14-2020*
Global Leadership and Competitiveness	
Single stage calls 2020 - Deadline 21 April 2020	
MG-3-4-2020(RIA): Innovative electric network architectures and systems, optimising global energy, electrical power, data and communication for aviation	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-3-4-2020*

MG-3-5-2020(RIA): Next generation multifunctional and intelligent airframe and engine parts, with emphasis on manufacturing, maintenance and recycling	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-3-5-2020*
MG-3-6-2020(RIA): Towards sustainable urban air mobility	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-3-6-2020*
MG-3-7-2020(IA): Improved Production and Maintenance Processes in Shipyards	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-3-7-2020*
MG-3-8-2020(CSA): 'First of a Kind' solutions for sustainable transport and mobility: EU initiative for accelerating EU-wide market access, scale up and derisking	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-3-8-2020*

Accounting for people

Single stage calls 2020 - Deadline 21 April 2020	
MG-4-7-2020(RIA): Digitalisation of the transport system: data sharing	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-4-7-2020*
MG-4-8-2020(RIA): Advanced research methods and tools in support of transport/mobility researchers, planners and policy makers	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-4-8-2020*
MG-4-9-2020(RIA-LS): The European mobility culture of tomorrow: Reinventing the wheel?	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-4-9-2020*
MG-4-10-2020(CSA): Improving impact and broadening stakeholder engagement in support of transport research and innovation	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-4-10-2020*

Blue Growth

Single stage calls 2020 - Deadline 21 April 2020	
MG-BG-03-2020(RIA): Under water noise mitigation and environmental impact	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/mg-bg-03-2020*

Digitising and Transforming European Industry and Services: Automated Road Transport

Single stage calls 2020 - Deadline 21 April 2020	
DT-ART-05-2020(IA): Efficient and safe connected and automated heavy-duty vehicles in real logistics operations	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-art-05-2020*
DT-ART-06-2020(IA): Large-scale, cross-border demonstration of connected and highly automated driving functions for passenger cars	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-art-06-2020*

Building a low-carbon, climate resilient future: Green Vehicles

Single stage calls 2020 - Deadline 21 April 2020	
LC-GV-06-2020(IA): Advanced light materials and their production processes for automotive applications	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-gv-06-2020*
LC-GV-07-2020(IA): Reducing the environmental impact of hybrid light duty vehicles	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-gv-07-2020*
LC-GV-08-2020(IA): Next generation electrified vehicles for	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-gv-08-2020*

urban and suburban use	
LC-GV-09-2020(CSA): Setting up a common European research and innovation strategy for the future of road transport	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-gv-09-2020*

IST*frica*

Societal Challenge 5: Climate action, resource efficiency and raw materials

Climate Action, Resource Efficiency and Raw Materials Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-climate_en.pdf*

This work programme is focused on six priorities:
- Climate action in support of the Paris Agreement
- Circular economy
- Raw materials
- Water for our environment, economy and society
- Innovating cities for sustainability and resilience
- Protecting and leveraging the value of our natural and cultural assets (which includes Earth observation, nature-based solutions, disaster risk reduction and natural capital accounting, and heritage alive).

Societal Challenge 5: Climate action, resource efficiency and raw materials	*http://ec.europa.eu/programmes/horizon2020/en/h2020-section/climate-action-environment-resource-efficiency-and-raw-materials*
Building a low carbon, climate resilient future	
Decarbonisation	
Two stage calls 2020 - Stage 1 Deadline: 13 February 2020, Stage 2 Deadline: 3 September 2020	
LC-CLA-10-2020(RIA) : Scientific support to designing mitigation pathways and policies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-10-2020*
LC-CLA-11-20209(IA) : Innovative nature-based solutions for carbon neutral cities and improved air quality	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-11-2020*
Climate Adaptation, impacts and services	
Two stage calls 2020 - Stage 1 Deadline: 13 February 2020, Stage 2 Deadline: 3 September 2020	
LC-CLA-12-2020(RIA)_: Advancing climate services	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-12-2020*
LC-CLA-13-2020(IA): Climate resilience of European coastal cities and settlements	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-13-2020*
Single stage calls 2020 - Deadline 13 February 2020	
LC-CLA-23-2020(RIA) : Towards a comprehensive European mountain research strategy	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-23-2020*
Inter-relations between climate change, biodiversity and ecosystem services	
Two stage calls 2020 - Stage 1 Deadline: 13 February 2020, Stage 2 Deadline: 3 September 2020	
LC-CLA-14-2020(RIA) : Understanding climate-water-energy-food nexus and streamlining water-related policies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-14-2020*
LC-CLA-15-2020(RIA): Forest Fires risk reduction: towards an integrated fire management approach in the E.U.	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-15-2020*

LC-CLA-16-2020(RIA): Multi-hazard risk management for risk-informed decision-making in the E.U	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-16-2020*

The Cryosphere

Two stage calls 2020 - Stage 1 Deadline: 13 February 2020, Stage 2 Deadline: 3 September 2020	
LC-CLA-17-2020(RIA): Polar climate: understanding the polar processes in a global context in the Arctic and Antarctic Regions	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-17-2020*

Single stage calls 2020 - Deadline 13 February 2020	
LC-CLA-21-2020(CSA) : Coordination of European Polar research	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-21-2020*

Knowledge Gaps

Two stage calls 2020 - Stage 1 Deadline: 13 February 2020, Stage 2 Deadline: 3 September 2020	
LC-CLA-18-2020(RIA): Developing the next generation of Earth System Models	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-18-2020*

Single stage calls 2020 - Deadline 13 February 2020	
LC-CLA-22-2020(CSA): Enhancing the Belmont Forum Collaborative Research Action on Climate, Environment and Health	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-22-2020*

Earth Observation

Two stage calls 2020 - Stage 1 Deadline: 13 February 2020, Stage 2 Deadline: 3 September 2020	
LC-CLA-19-2020(RIA): Integrated GEOSS climate applications to support adaptation and mitigation measures of the Paris Agreement	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-19-2020*
LC-CLA-20-2020(RIA): Supporting the implementation of GEOSS in the Arctic in collaboration with Copernicus	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-cla-20-2020*

Greening the economy in line with Sustainable Development Goals

Connecting economic and environmental gains - the circular economy

Two stage calls 2020 - Stage 1 Deadline: 13 February 2020, Stage 2 Deadline: 3 September 2020	
CE-SC5-24-2020 (RIA): Improving the sorting, separation and recycling of composite and multi-layer materials	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-sc5-24-2020*
CE-SC5-25-2020 (RIA): Understanding the transition to a circular economy and its implications on the environment, economy and society	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-sc5-25-2020*
CE-SC5-28-2020 (IA): Develop and pilot circular systems in plastics, textiles and furniture sectors	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-sc5-28-2020*
CE-SC5-30-2020(RIA): Plastics in the environment: understanding the sources, transport, distribution and impacts of plastics pollution	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-sc5-30-2020*

Single stage calls 2020 - Deadline 13 February 2020	
CE-SC5-29-2020(CSA) : A common European framework to harmonise procedures for plastics pollution monitoring and assessments	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-sc5-29-2020*

Raw materials

Two stage calls 2020 - Stage 1 Deadline: 13 February 2020, Stage 2 Deadline: 3 September 2020	
SC5-10-2019-2020(IA); Raw materials innovation actions: exploration and Earth observation in support of sustainable mining	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search*
Single stage calls 2020 - Deadline 13 February 2020	
SC5-26-2020(CSA) : Sustainable management in extractive industries	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc5-26-2020*

Innovating cities for sustainability and resilience

Two stage calls 2020 - Stage 1 Deadline: 13 February 2020, Stage 2 Deadline: 3 September 2020	
SC5-27-2020(RIA) : Strengthening international collaboration: enhanced natural treatment solutions for water security and ecological quality in cities	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc5-27-2020*

Protecting and leveraging the value of our natural and cultural assets: Nature-based solutions, disaster risk reduction and natural capital accounting

Two stage calls 2020 - Stage 1 Deadline: 13 February 2020, Stage 2 Deadline: 3 September 2020	
SC5-32-2020(RIA): Addressing wild pollinators decline and its effects on biodiversity and ecosystem services	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc5-32-2020*
Single stage calls 2020 - Deadline 13 February 2020	
SC5-33-2020(CSA) : Monitoring ecosystems through research, innovation and technology	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc5-33-2020*

Specific support and implementation aspects

Single stage calls 2020 - Deadline 13 February 2020	
SC5-34-2020 (ERA-NET Cofund); action on conservation and restoration of degraded ecosystems and their biodiversity, including a focus on aquatic systems	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc5-34-2020*
SC5-35-2020 (ERA-NET Cofund); action on enhancing urban transformation capacities	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc5-35-2020*
SC5-36-2020 (ERA-NET Cofund); action on raw materials	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/sc5-36-2020*

Societal Challenge 6: Inclusive, innovative and reflective societies

Inclusive, Innovative and Reflective Societies Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-societies_en.pdf*

The three SC6 calls for proposals on migration, transformations and governance encourage multidisciplinary, cross-national, comparative and participatory approaches.

Societal Challenge 6: Inclusive, innovative and reflective societies	*http://ec.europa.eu/programmes/horizon2020/en/h2020-section/europe-changing-world-inclusive-innovative-and-reflective-societies*
Migration	
Single stage calls 2020 - Deadline 12 March 2020	
MIGRATION-04-2020(RIA): Inclusive and innovative practices for the integration of recently arrived migrants in local communities	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/migration-04-2020*
MIGRATION-04-2020(IA-LS): Inclusive and innovative practices for the integration of recently arrived migrants in local communities	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/migration-04-2020*
MIGRATION-05-2018-2020(IA): Mapping and overcoming integration challenges for migrant children	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/migration-05-2018-2020*
MIGRATION-09-2020(RIA): Narratives on migration and its impact: past and present	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/migration-09-2020*
MIGRATION-10-2020(CSA): Sustainable practices for the integration of newly arrived migrants into societies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/migration-10-2020*
Socioeconomic and Cultural Transformations in the context of the Fourth Industrial Revolution	
Single stage calls 2020 - Deadline 12 March 2020	
DT-TRANSFORMATIONS-02-2018-2019-2020(RIA) Transformative impact of disruptive technologies in public services	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-transformations-02-2018-2019-2020*
TRANSFORMATIONS-04-2019-2020 (RIA) Innovative approaches to urban and regional development through cultural tourism	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/transformations-04-2019-2020*
TRANSFORMATIONS-10-2020(RIA): Evolving European media landscapes and Europeanisation	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/transformations-10-2020*
DT-TRANSFORMATIONS-12-2018-2020(RIA): Curation of digital assets and advanced digitisation	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-transformations-12-2018-2020*

TRANSFORMATIONS-15-2020(ERA-NET-Cofund): Society and innovations: understanding the contexts, processes and consequences	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/transformations-15-2020
TRANSFORMATIONS-18-2020(RIA): Technological transformations, skills and globalization - future challenges for shared prosperity	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/transformations-18-2020
TRANSFORMATIONS-19-2020(CSA): Culture beyond borders – Facilitating innovation and research cooperation between European museums and heritage sites	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/transformations-19-2020
DT-TRANSFORMATIONS-20-2020(CSA): European Competence Centre for the preservation and conservation of Monuments and Site	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-transformations-20-2020
DT-TRANSFORMATIONS-21-2020(CSA): Mentoring scheme for schools: mainstreaming innovation by spreading the advanced ICT-based teaching practices to a wide circle of schools	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-transformations-21-2020
TRANSFORMATIONS-22-2020(CSA): Enhancing access and uptake of education to reverse inequalities	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/transformations-22-2020
TRANSFORMATIONS-22-2020(RIA): Enhancing access and uptake of education to reverse inequalities	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/transformations-22-2020
DT-TRANSFORMATIONS-23-2020(CSA): To set up a digital accessibility observatory as a forum to take stock of market and technological developments, monitor progress in digital accessibility and provide opportunities for exchange of best practices	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-transformations-23-2020
Governance for the Future	
Single stage calls 2020 - Deadline 12 March 2020	
DT-GOVERNANCE-05-2018-2019-2020 (RIA) New forms of delivering public goods and inclusive public services	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-governance-05-2018-2019-2020
SU-GOVERNANCE-07-2020(RIA): The Common Foreign and Security Policy and the expanding scope of the EU's external engagement	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-governance-07-2020
SU-GOVERNANCE-09-2020(RIA): Addressing radicalization through social inclusion	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-governance-09-2020
DT-GOVERNANCE-12-2019-2020 (IA) Pilot on using the European cloud infrastructure for public administrations	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-governance-12-2019-2020
GOVERNANCE-20-2020(CSA): Centres/Networks of European research and innovation	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/governance-20-2020
SU-GOVERNANCE-21-2020(RIA): Developing deliberative and participatory democracies through experimentation	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-governance-21-2020

DT-GOVERNANCE-22-2020(CSA): Citizen-centric public services in local and regional administrations	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/dt-governance-22-2020*
GOVERNANCE-23-2020(CSA): Support to the networking of national R&I Think Tanks for helping co-shape and share a common perspective on R&I policy across Europe	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/governance-23-2020*

Societal Challenge 7: Secure Societies

Secure Societies Work Programme	*http://www.ist-africa.org/home/files/h2020-wp1820-security_en.pdf*

All actions under this work programme contribute to the Focus Area 'Boosting the effectiveness of the Security Union'.

Societal Challenge 7: Secure Societies	*http://ec.europa.eu/programmes/horizon2020/en/h2020-section/secure-societies-%E2%80%93-protecting-freedom-and-security-europe-and-its-citizens*
Protecting the infrastructure of Europe and the people in the European smart cities	
Single stage calls 2020 - Deadline 27 August 2020	
SU-INFRA01-2018-2019-2020 (IA) Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-infra01-2018-2019-2020*
Security	
Disaster-Resilient Societies	
Single stage calls 2020 - Deadline 27 August 2020	
SU-DRS01-2018-2019-2020 (RIA) Human factors, and social, societal, and organisational aspects for disaster-resilient societies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-drs01-2018-2019-2020*
SU-DRS02-2018-2019-2020 (RIA) Technologies for first responders	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-drs02-2018-2019-2020*
SU-DRS03-2018-2019-2020 (IA) Pre-normative research and demonstration for disasterresilient societies	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-drs03-2018-2019-2020*
SU-DRS04-2019-2020 (RIA) Chemical, biological, radiological and nuclear (CBRN) cluster	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-drs04-2018-2019-2020*
Fight against Crime and Terrorism	
Single stage calls 2020 - Deadline 27 August 2020	
SU-FCT01-2018-2019-2020 (RIA) Human factors, and social, societal, and organisational aspects to solve issues in fighting against crime and terrorism	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-fct01-2018-2019-2020*
SU-FCT02-2018-2019-2020 (RIA) Technologies to enhance the	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-fct02-*

fight against crime and terrorism	*2018-2019-2020*
SU-FCT03-2018-2019-2020 (IA) Information and data stream management to fight against (cyber)crime and terrorism	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-fct03-2018-2019-2020*
SU-FCT04-2020(IA): Chemicals: intelligence, detection, forensics	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-fct04-2020*
Border and External Security	
Single stage calls 2020 - Deadline 27 August 2020	
SU-BES01-2018-2019-2020 (RIA) Human factors, and social, societal, and organisational aspects of border and external security	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-bes01-2018-2019-2020*
SU-BES02-2018-2019-2020 (RIA) Technologies to enhance border and external security	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-bes02-2018-2019-2020*
SU-BES03-2018-2019-2020 (IA) Demonstration of applied solutions to enhance border and external security	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-bes03-2018-2019-2020*
General Matters	
Single stage calls 2020 - Deadline 27 August 2020	
SU-GM01-2018-2019-2020 (CSA) Pan-European networks of practitioners and other actors in the field of security	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-gm01-2018-2019-2020*
SU-GM02-2018-2020(PCP): Strategic pre-commercial procurements of innovative, advanced systems to support security	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-gm02-2018-2020*
Digital Security	
Single stage calls 2020- Deadline 27 August 2020	
SU-DS02-2020(IA): Intelligent security and privacy management	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-ds02-2020*
SU-DS02-2020(RIA): Intelligent security and privacy management	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-ds02-2020*
SU-DS03-2019-2020 (IA) Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-ds03-2019-2020*
SU-DS04-2018-2020(IA): Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches	*https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-ds04-2018-2020*

Relevant Links

Please visit the Horizon 2020 section within the Participants portal to download the Proposers Guide and specific templates to prepare proposals for submission under calls open in 2018 - 2019 within specific Societal Challenges and LEIT themes:
http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html

Relevant Links to get more information	
Horizon 2020 Official site	*http://ec.europa.eu/programmes/horizon2020/*
Horizon 2020 Calls on Participants Portal	*http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html*
Frequently Asked Questions on Horizon 2020	*http://ec.europa.eu/programmes/horizon2020/en/faq*
Call for Experts for Horizon 2020 Advisory Groups	*http://ec.europa.eu/research/horizon2020/index_en.cfm?pg=h2020-experts*
International Cooperation in Research and Innovation, Communication COM (2012) 497 Sept 2012	*http://www.ist-africa.org/home/files/InternationalCooperation_ResearchInnovation_Com_2012_497_Sept2012.pdf*
Innovation Union Europe 2020 Initiative	*http://ec.europa.eu/research/innovation-union/index_en.cfm*